

Look Ahead... Be a Light...

Next Gen @PKM Teacher

PLAN OF ACTION
2020 - 2030

SILVER JUBILEE YEAR 2019-2020

P.K.M. COLLEGE OF EDUCATION MADAMPAM

PROF. KANDOTH MEMORIAL COLLEGE OF EDUCATION
MADAMPAM

RUSA 2.0 BENEFICIARY

RECOGNISED BY NCTE

GOVT. AIDED COLLEGE

ACCREDITED BY NAAC
WITH 'A' GRADE

LISTED UNDER
UGC 2(f)&12B

AFFILIATED TO
KANNUR UNIVERSITY

Lead Kindly Light...

P.K.M. PIONEERS

1995

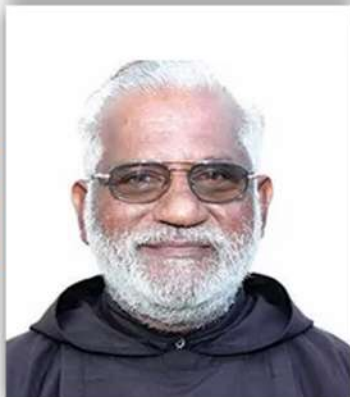
2020



PATRONS



MANAGERS



LOCAL MANAGERS



PRINCIPALS





(Next Generation Teacher at PKM)

PLAN OF ACTION

2020-2030

SILVER JUBILEE YEAR 2019-2020

P.K.M. COLLEGE OF EDUCATION, MADAMPAM

PREFACE

PKM College of Education, situated in the 22nd ward of Sreekandapuram Municipality in the Irikkur Assembly Constituency which stands as a light house in the field of teacher education has entered its 25th year of existence. When this prestigious institution captures attention during 2019-20 as the Silver Jubilee Year, the teacher education action plans which have long term academic benefits for the institution, this geographical area and the entire educational scenario are placed below. The essence and undercurrents of our tireless efforts are to provide teachers who are value based, socially committed and morally upright and are able to undertake academic activities comprising the philosophic outlooks comprehensively in tune with the drastic changes in higher education field which the college intends to achieve through a Mega Curricular Project titled “ Next Generation Teacher @PKM” extending to a period of 10 years (2020-2030), the beneficiaries of which would be the students of ten batches commencing from the student teachers of the present year. In the conduct of these time bound activities, co-operation of all associated is requested.

PRINCIPAL
Dr JESSY N.C.

COLLEGE PROFILE

Back Ground

Professor Kandoth Memorial College of Education was established in 1995 as a self financing institution and was converted into an aided college in 1997. This temple of learning is dedicated to the Sacred Heart of Jesus and named after Prof. Joseph Kandoth, who was an educational visionary, social reformer and a zealous missionary. He initiated the historical migration of Kananaya Catholic Community which in its turn changed the social and economic history of Malabar. 2019-'20 is the Silver Jubilee Year of the college.

Affiliations and Accreditations

PKM College of Education is affiliated to Kannur University and recognised by NCTE. The college is listed under UGC (2f) & 12 (B) categories. The college is accredited by NAAC (National Assessment and Accreditation Council) with 'A' grade in 2006 and reaccredited by NAAC in 2016 with 'A' grade (4point scale). It is the only teacher education institution accredited by NAAC in Kannur University. This institution has minority status conferred by National Commission for Minority Educational Institution. The college is also a RUSA 2.0 beneficiary.

Management

PKM College of Education is owned and run by the Knanaya Catholic Archaparchy of Kottayam. It is the realization of the cherished dream of the Knanaya Community under the leadership of the founder patron Mar Kuriakkose Kunnachery, the former Arch Bishop of Kottayam. Msgr.Stephen Jayaraj OFM, Cap. is the founder manager of this institution. His Grace Mar.Mathew Moolakattu, Arch Bishop, Archaparchy Kottayam is the patron of the college. The general management of the college is vested in the Governing body whose ex-officio president is the manager His Excellency Mar.Joseph Pandarasseril, Auxiliary Bishop, Archaparchy of Kottayam. V.Rev.Fr. Jose Nedungatt and V. Rev. Fr. Luke Poothrukayil render their service as Pro-manager and Local manager respectively.

Our Vision

“Excellence and Committed Service in Every Realm of Teaching Endeavour”.

Our Mission

“To Nurture the Holistic Development of Prospective Teachers for a Just and Humane Society”.

Our Motto

“ Lead Kindly Light”

Our Objectives

- To equip the student teachers to develop and practice innovative methods and strategies in the teaching learning process.
- To acquire effective communication skills and leadership qualities.
- To promote learning, research, extension activities and development.
- To develop intellectually competent, morally upright, psychologically integrated and socially committed teachers for service in the emerging global scenario of education.
- To develop into a centre of excellence in teacher education for preparing quality teachers.

SILVER JUBILEE OF PKM COLLEGE OF EDUCATION

1995-2020

Silver Jubilee Year:

2019-2020

Silver Jubilee Theme:

“Next Generation Teacher Education @ PKM”

Silver Jubilee Motto:

“Look Ahead... Be a Light...”

Silver Jubilee Goals:

In the context of the UN Sustainable Development Goals (SDGs), **Next Generation Teacher Education at PKM** aims at the whole person development of the student teachers for which seven goals to be attained through their two year programme have been set:

Becoming teachers who are:

- **Peace Builders**
- **Environment Protectors**
- **Equity Upholders**
- **Health Promoters**
- **Humanity Propagators**
- **Digital Experts**
- **Research Undertakers**

Silver Jubilee Objectives:

1. To become Peace Builders and undertake peace initiatives in their community.
2. To become Environmental Protectors and undertake eco-friendly movements for sustainable future.
3. To become Health Promoters and conduct health awareness programmes and campaigns for personal and physical well being.
4. To become Equity Upholders and engage vibrantly in activities that promotes equity in the society.
5. To become Humanity Propagators and undertake initiatives for practicing and propagating humanitarian values.
6. To become Techno Pedagogues and utilize their digital expertise in their workplace
7. To become Research Undertakers and make significant contributions in areas of educational research.

The college intends to realize these objectives through a Mega Curricular Project extending to a period of 10 years (2020-2030) titled **“Next Generation Teacher at PKM”**; beneficiaries (recipients) of which would be the students of 10 batches commencing from the student teachers of the present year. The project is designed as a cyclic process of two years extending to attain the goals by 2030.

Next Generation Teacher @ PKM

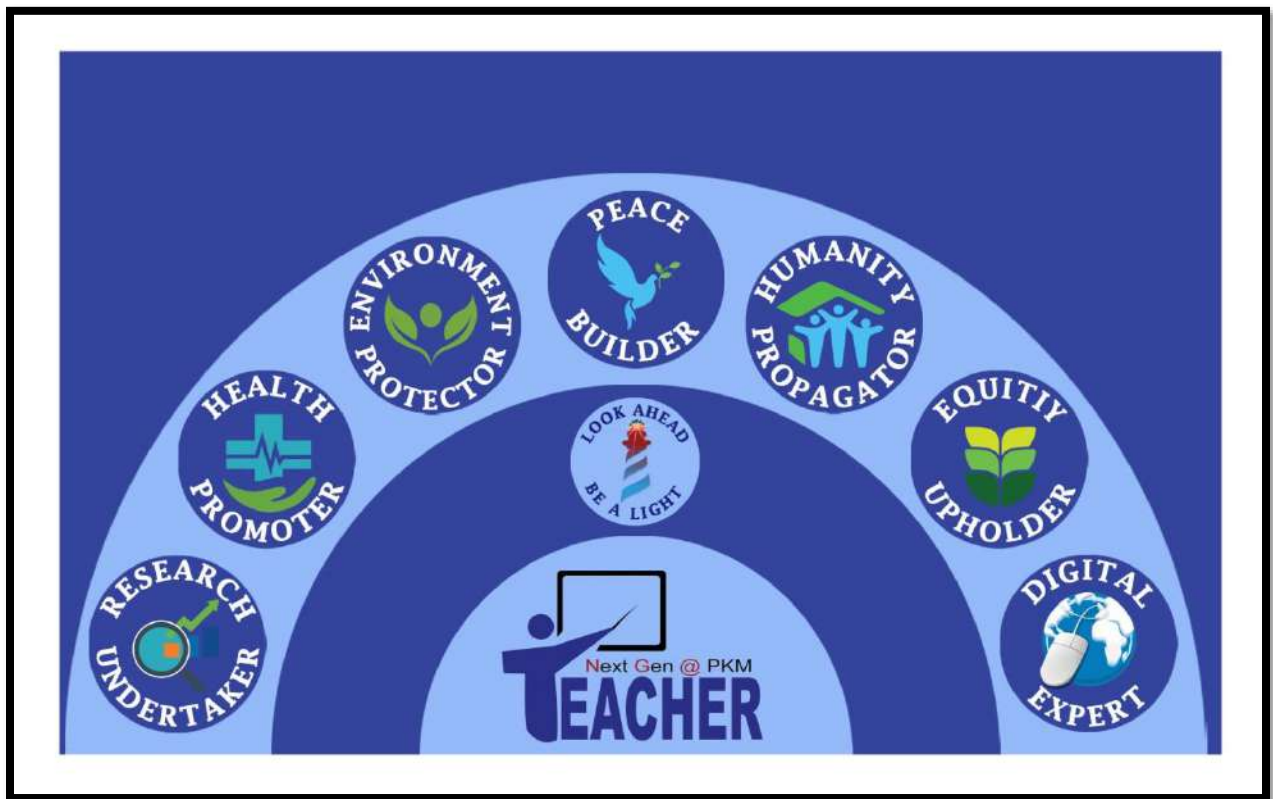
Title of the Project:

“Next Generation Teacher @ PKM”

Project Logo:

Next Gen @PKM
Teacher

Project Emblem:



Project Design:

PKM College of Education, being a teacher education institution stepping ssinto its Silver Jubilee, aims at the whole person development of the student teachers, the Next Generation Teachers who are to face the future global challenges posed by the social, moral, environment, health and peace issues. Hence they must be developed into teachers of essential caliber, humanitarian values, pedagogic competencies and skills and must be fully equipped in terms of Knowledge, Skills and Attitude.

Curricular Transaction Design

To attain the aim of building up potential future teachers who are peace builders, environment protectors, health promoters, equity upholders, humanity propagators, digital experts and research undertakers, the institution has developed a **Curricular Transaction Design** capable of addressing these goals, apart from the university prescribed curriculum. The design incorporates **Curriculum Transaction Processes** and **Curricular Products**

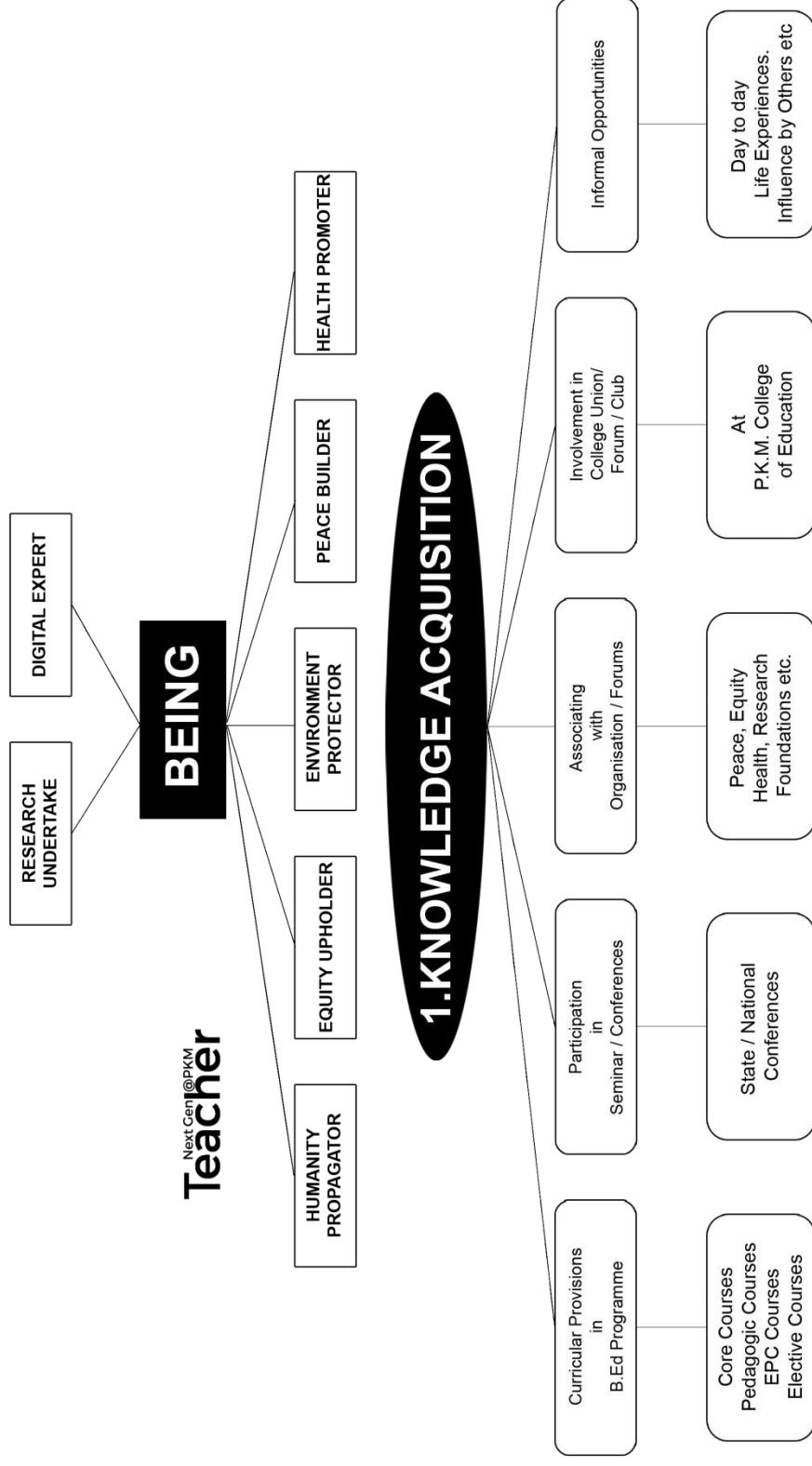
The Curriculum Transaction Processes involves

The **Knowledge Acquisition phase** and the **Skill Acquisition phase**.

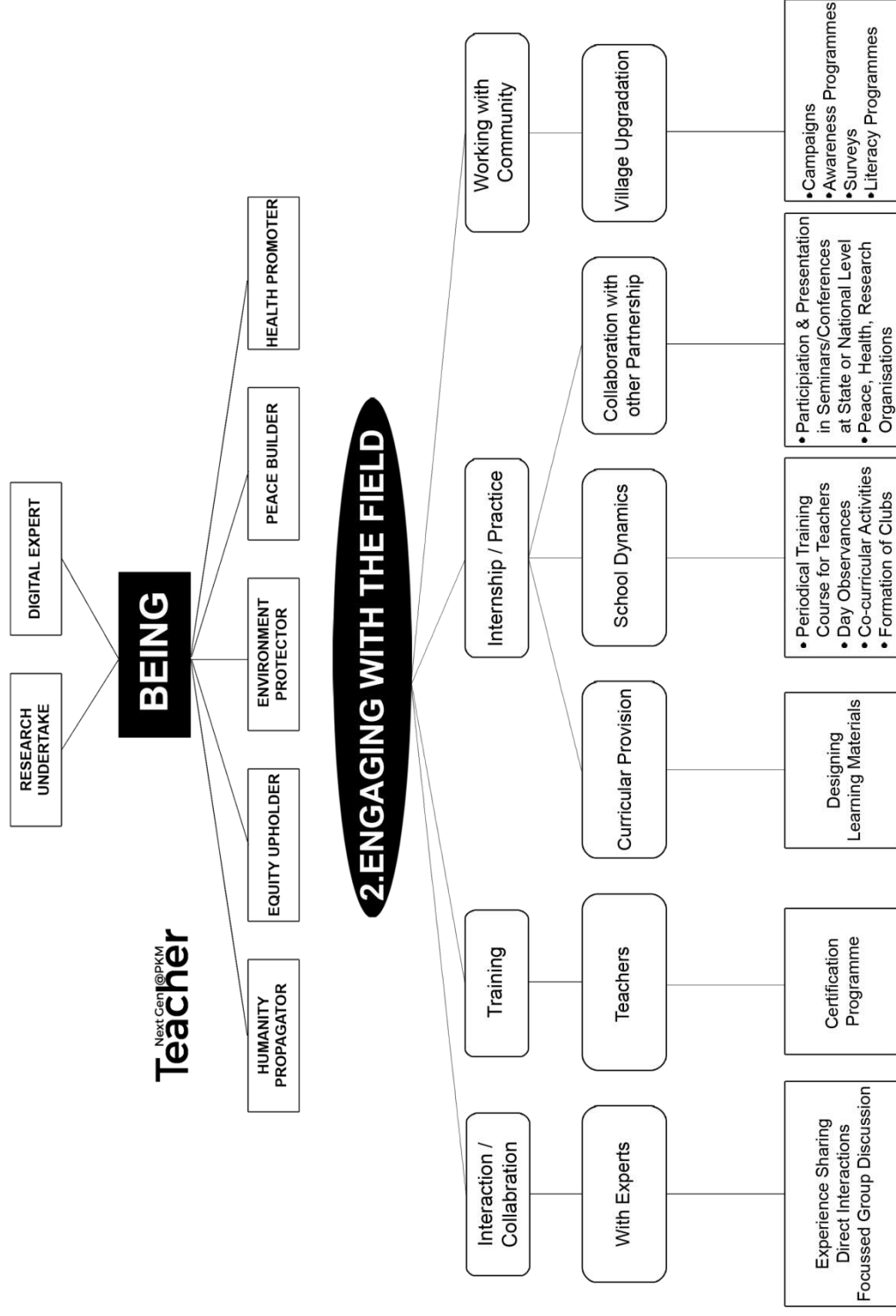
1. **Knowledge Acquisition phase:** The processes for attaining knowledge about the issues and challenges through *curricular provisions in the prescribed curriculum, participation in conferences, associating with organizations/forums, informal opportunities* etc.
2. **Skill Acquisition phase:** The processes for skill acquisition through *engaging with the field* includes training in the field, internship, interactions with experts etc.

The Curricular Products involve the attainment of the desired goals – becoming teachers who are peace builders, environment protectors, health promoters, equity upholders, humanity propagators, digital experts and research undertakers. Through an attitudinal shift the student teachers are made competent to create a culture of peace, humanity, equity etc by performing their role as teachers, researchers and social activists in the society.

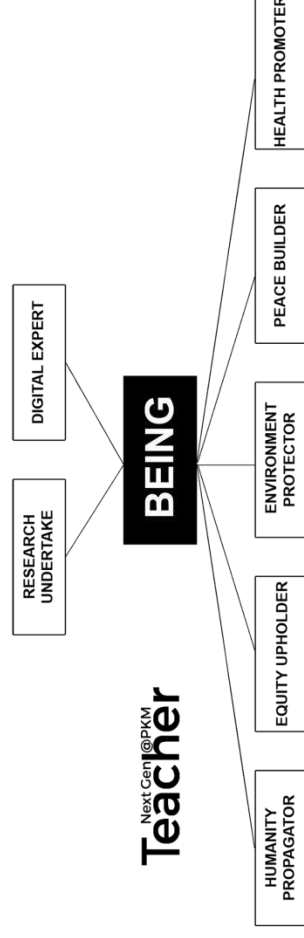
CURRICULAR TRANSACTION PROCESS



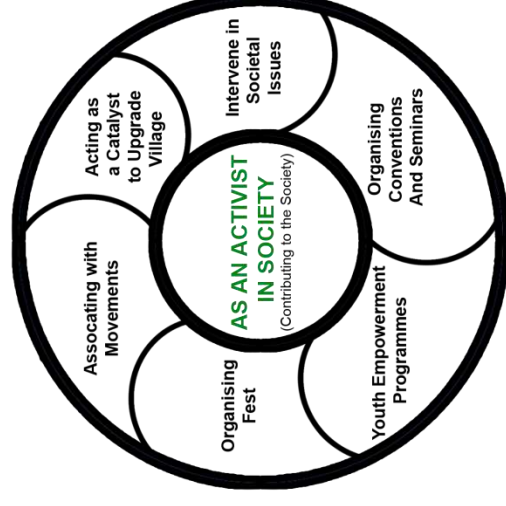
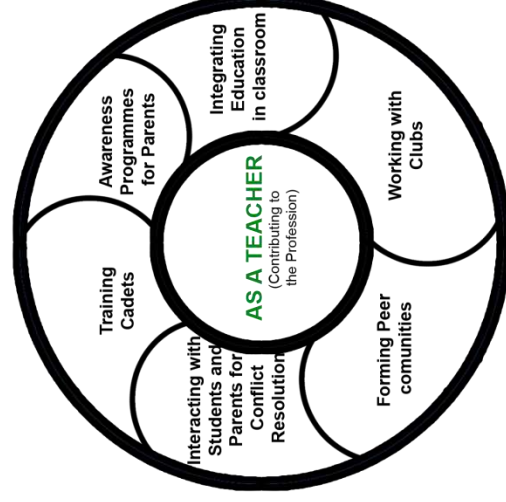
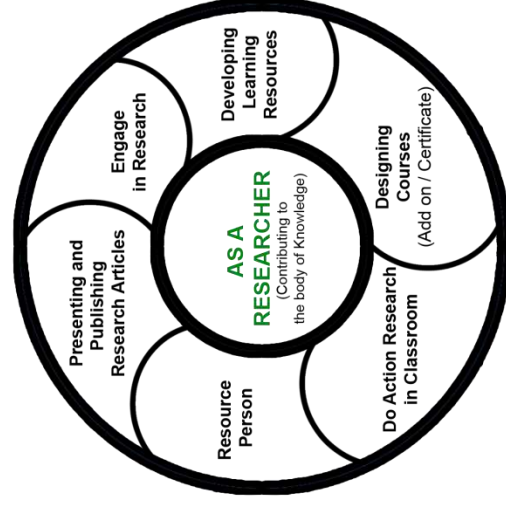
CURRICULAR TRANSACTION PROCESS



CURRICULAR PRODUCTS



ATTITUDINAL SHIFT



Responsible Citizenship → Culture of Peace, Health, Humanity, Equity, Research etc

SILVER JUBILEE YEAR 2019-20

Master Plan

	PROGRAMME		Partnership/Collaboration
	SILVER JUBILEE INAUGURATION		
1.	PROJECTS		
	Community Extension Project	Village Upgradation Project	Malabar Social Service Society, Kannur.
	Agricultural Project	Project on “Organic Vegetable Cultivation”-in the campus	Krishi Bhavan, Sreekandapuram
	Extension Project	“Share your Spare” Project-sharing human/material resources	Palliative Care Unit
	Academic Project	“Laptop for All” Project-for the financially weak student teachers-	Alumni Association
2.	LECTURE SERIES OF EMINENT PERSONS		
		Scientist	
		Social Activist	
		Literary figures/writers	
		Mathematician	
3.	PARTNERSHIP WITH INTERNATIONAL BODIES OR ORGANISATIONS		
		World Council for Curriculum and Instruction-WCCI	
		United Board	
		UNESCO Asia Pacific Bureau for Education	

4.	ORGANISING INTERNATIONAL/NATIONAL/STATE LEVEL SEMINARS AND CONFERNCES		
	International/National level	“Healing our Ozone Together”- Paper Presentation Competition for Secondary and Higher Secondary School Students	Kerala State Council for Science Technology and Environment(KSCSTE)
	National level	“ICT”- Paper Presentation Competition for Teachers and Teacher Educators	KSCSTE
	National level	Human Rights and Values	
	State level	Intellectual Property Rights	KSCSTE
5.	TRAINING PROGRAMMES		
		Eco Management	KSCSTE
		Herbal Medicine	
		Teachers as Peace Builders	Peace Forum
		ATL Tinkering Lab-Robotics	Vimal Jyothi Engineering College , Chemperi
6	STUDENT EXCHANGE PROGRAMME		
	Interuniversity	Combined with four colleges	
	Interstate	With other Teacher Education Institutions	
7.	ADD ON COURSES-CERTIFICATE		
		Educational Research	
		ICT	
8.	CRASH COURSE		
	After College-Public	Competitive Exams- SET,KTET	

9.	REMEDIAL COACHING PROGRAMME		
		After school remedial coaching programme for the students at risk	
10.	SPORTS ACADEMY		
		Academy for indoor and outdoor games, Yoga and fitness for the Community	
		Organise Tournaments	
11.	LITERACY PROGRAMMES		
		Finance	
		Law	
		Digital- for the Community	
		Family Management	
12.	CAMPAIGNS		
		Urjakiran- Energy Conservation Awareness Campaign-	Energy Management Centre
13.	ALUMNI MEETINGS		
		Local Alumni	
		Priests	
		Sisters	
		Batch wise	
		General	
14.	GATHERINGS/MEETINGS		
		PKM Family meet	
		Former Mangers	
		Former Principals and Teachers	

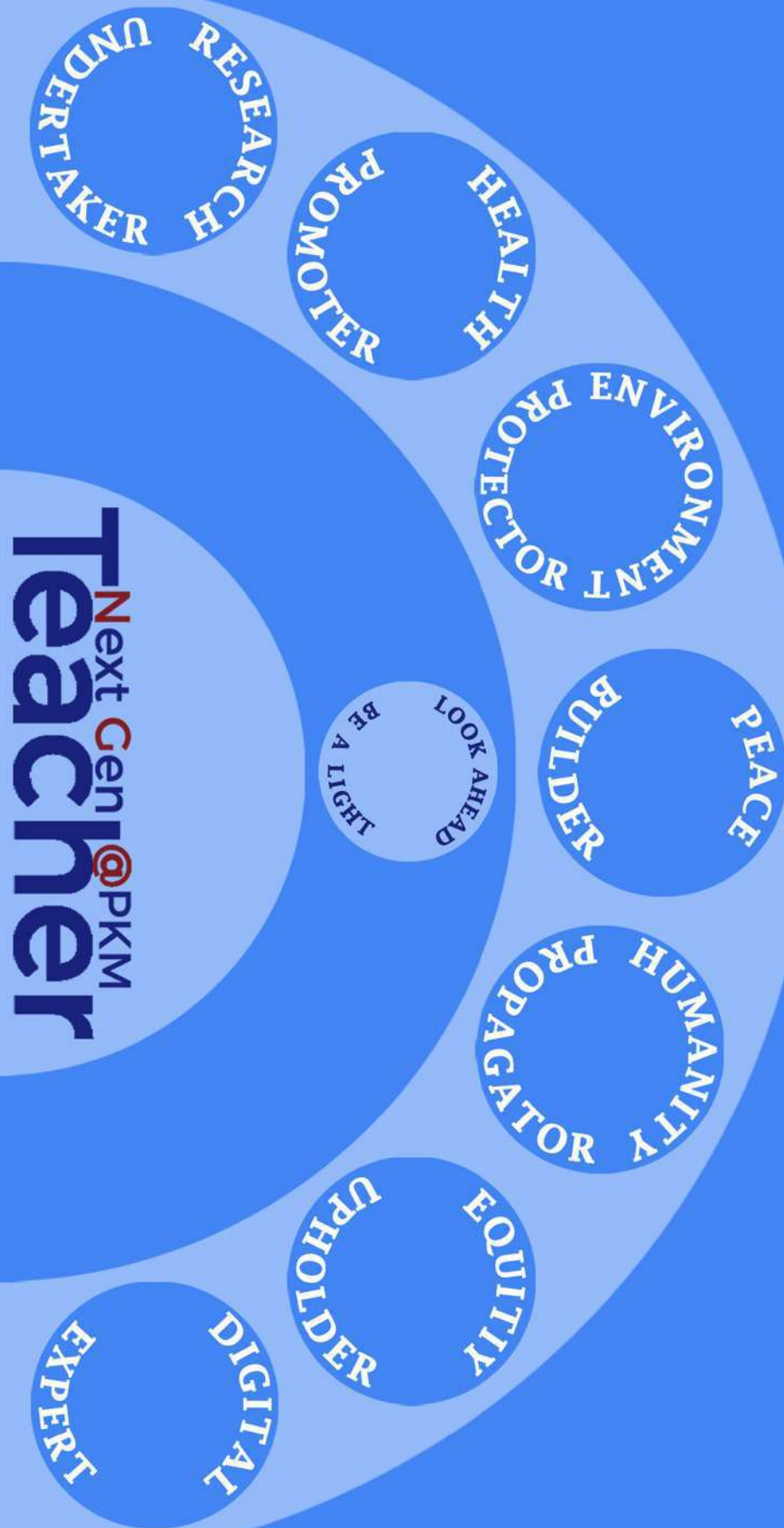
15.	DAY OBSERVANCES/CELEBRATIONS		
	Day Observances through intercollegiate, interschool competitions	Independence Day	August
		International Folklore Day	August
		International Ozone Day	September
		World Tourism Day	September
		Gandhi Jayanthi	October
		National Mathematics Day	December
		Human Rights Day	December
		Republic Day	January
		World Wet Lands Day	February
		National Science Day	February
		Kandoth Day	March
		Womens Day	March
	Celebrations	Onam	
		Christmas	
16.	EXHIBITION		
		All Departments	
17.	WORKSHOPS		
	EPC workshop	Reading and Reflecting on Text	
	EPC workshop	Art and Drama	
	EPC workshop	Critical Understanding of ICT	
	EPC workshop	Understanding the Self	
18.	CLUB/FORUMS/CELLS/UNION ACTIVITIES		
		Women Cell	
		Bhoomithra Sena	
		Peace Forum	

		Electoral Literacy Club	
		Debate Club	
		Folklore Club	
		Health, Fitness and Sports Club	
		Literary Club	
		Mathematics Club	
		Tourism Clubs	
19.	LAUNCHING NEW SCHOLARSHIPS AND ENDOWMENTS		
20.	FIELD VISITS		
21.	LEARNING COMMUNITIES		
22.	GUIDANCE , COUNSELLING, MENTORING PROGRAMMES		
23.	FILM FEST		Environmental
24.	PUBLIC RALLY		
25.	PUBLICATIONS		
		Research Papers	
		Proceedings of the Conferences	
		Jubilee Souvenir	



SUSTAINABLE DEVELOPMENT GOALS







P.K.M. COLLEGE OF EDUCATION

INSTITUTIONAL DEVELOPMENT PLAN 2025-2030

TRANSFORMING THE EXISTING CENTRE OF EDUCATION INTO A CENTRE OF E-EDUCATION

**Establishment of
Multimedia Laboratory**

**Establishment of
STEM Laboratory**

**Establishment of
Digital Training Application
Laboratory**

**Establishment of
Digital Library**

TRANSFORMING THE EXISTING TEACHER EDUCATION INSTITUTION (TEI) INTO AN INCLUSIVE TEI

**Establishment of
Amenity Center for the
specially abled faculty and
students**

**Renovation of
The existing Wellness Centre and
Sports Academy for the
underprivileged into an
Amphitheatre**

**Installation
of Lift facility for the Three
Storied Academic Building**

**Renovation of
Hostel for the Disabled/ Trans
genders**

TRANSFORMING THE EXISTING INTERNAL QUALITY ASSUARANCE CELL(IQAC) OF THE TEI INTO MENTOR IQAC OF NAAC FOR TEIS.

Extension of the services of the (IQAC)

- **Mentoring the IQAC.**
- **Training the IQAC**
- **Providing Technical Supports**

P.K.M. COLLEGE OF EDUCATION

MADAMPAM, KAITHAPRAM P.O- 670631, KANNUR, KERALA, INDIA

(Govt. Aided Teacher Education Institution affiliated to Kannur University)

Accredited by NAAC with 'A' Grade, RUSA 2.0 Beneficiary Institution

Recognized by NCTE. Included under UGC 2(f) & 12 B category

E-mail: pkmcedn@yahoo.co.in Website: www.pkmcollege.org

Tel: 0460 2230929, Fax: 04602 232449



PROJECT PROPOSAL under PM-USHA (RUSA 3.0)

Submitted to

THE KERALA STATE PROJECT DIRECTORATE

RUSA

P.K.M. COLLEGE OF EDUCATION, MADAMPAM

GOVT. AIDED TEACHER EDUCATION INSTITUTION (GOVT. AIDED) AFFILIATED TO KANNUR UNIVERSITY
RECOGNIZED BY NCTE (UGC 2(f) & 12 B CATEGORY) | BE ACCREDITED BY NAAC WITH 'A' GRADE | RUSA 2.0 BENEFICIARY
MADAMPAM P.O., KAITHAPRAM P.O., KANNUR DISTRICT | www.pkmcollege.org | Email: pkmcedn@yahoo.co.in | 04602230929

പി.കെ.എ. കോളേജ് ഓഫ് എഡ്യൂക്കേഷൻ, മദംപം

22-01-2024

CERTIFICATE

This is to certify that the Project Proposals submitted to the Kerala State Project Directorate, RUSA, Trivandrum, has been prepared by the RUSA Board of Governors, Project Monitoring Unit and Internal Quality Assurance Cell (IQAC) the College, after discussing with all the stakeholders and assessing the future development needs in terms of the Institutional Development Plan of the College.

22-01-2024
Madampam

Dr Jessy N C
Principal

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1. INTRODUCTION

P.K.M. College of Education - a Government Aided Teacher Education Institution, is a Christian Minority Educational Institution, managed by the Knanaya Catholic Community, Arch Diocese of Kottayam. The College was established in 1995 as a self-financing institution and was converted into an aided college in 1997. It is located in a rural area of Kannur District of Kerala. The vision of the institution is “*Excellence and committed service in every realm of teaching endeavour*” and its mission is to “*nurture the holistic development of prospective teachers for a just and humane society*”.

The Teacher Education Institution (TEI) is affiliated to Kannur University, recognized by NCTE and is included under sections 2 (f) and 12B of the University Grants Commission Act. The TEI was Accredited by NAAC (National Assessment and Accreditation Council) with ‘A’ grade in 2006 and reaccredited by NAAC in 2016 with ‘A’ grade (4point scale) and is undergoing the process of its third cycle of accreditation . It has the Minority status conferred by National Commission for Minority Educational Institution. The TEI is a RUSA 2.0 beneficiary Institution and has successfully completed the Construction and Renovation.

The Teacher Education Institution offers two year B.Ed. Programme with an annual intake of 50 students of one basic unit as per the norms of NCTE. Out of the nine faculty, seven are Ph.D. holders and three are research guides in Education. The TEI has linkages with International and National agencies (Governmental and Non-Governmental) for Research, Extension, Internship and Placement.

As a TEI it has adequate infrastructural and ICT- based instructional facilities and is adopting innovative and inclusive pedagogical strategies for teaching and training. More than 75% of the students pass competitive examinations and are placed on completion of the B.Ed programme.

In the context of the UN Sustainable Development Goals (SDGs), Next Generation Teacher Education at PKM aims at the whole person development of the student teachers for which seven goals to be attained through the two-year B.Ed. programme have been set - becoming teachers who are: *Peace Builders, Environment Protectors, Equity Upholders, Health Promoters, Humanity Propagators, Digital Experts and Research Undertakers.*

Section 1: Preamble			
A.	Name of the College:	P.K.M. College of Education	
B.	Address of the college:	P.K.M. College of Education, Madampam, Kaithapram P. O, Kannur -670631, Kerala. www.pkmcollege.org	
C.	AISHE Code:	C-43883	
D.	Name of the District:	KANNUR	
E.	Whether State Government aided or State Government College:	State Government Aided	
F.	Whether Constituent college or affiliated college of a University:	Teacher Education Institution affiliated to Kannur University	
G.	Name of University:	Kannur University	
H.	Year of opening:	1995	
I.	Is the college running from a permanent campus or temporary campus:	Permanent Campus	
J.	Accreditation status as on date of application: Accredited/Not accredited	Accredited First Accredited in 2006 with A Grade Reaccredited with A Grade, CGPA: 3.11 in 2016, Second Cycle. Third Cycle Accreditation process based on TEI under process. Submitted the IIQA and has started the process of getting accreditation.	
K.	If Not Accredited, then whether it has submitted the IIQA and has started the process of getting Accreditation:		
L.	If accredited then Accreditation score and Grade:	Score 3.11	Grade A
M.	Date of validity of accreditation:	10-07-2021 (Second Cycle) Submitted the IIQA and has started the process of getting accreditation for the third cycle of Accreditation.	
N.	Is the district of the college location a focus district:		
O.	Has the institution been earlier approved under RUSA:	Yes Approved under Infrastructural Grants for college under RUSA 2.0 with funding of 2 crores. (1Crore-New Construction; 75 Lakhs for Renovation and 25 Lakhs for Purchase) Renovation and Construction works completed and Completion certificate submitted. Purchase also completed. Out of the 2 crore funding, 1.75 crore allocated and 1.75 crores utilized. Physical Verification by RUSA SPD and AG and DD audit completed.	

P. Details of earlier consolidated approvals to the institution under RUSA (as on date of application):													
S . N o.	Name of the Component	Central Share Approved (Rs. Crore)	Central Share Released (Rs. Crore)	Central Share Utilised	State Share Approved	State Share Released	State Share Utilised	Total Amount Approved (Rs. Crore)	Total Amount Released (Rs. Crore)	Total Amount Utilised (Rs. Crore)	Whether project completed (including all hard and soft items of expenditure)	If yes , enclose completion certificate	If not completed, then what is the percentage of completion of the overall project
1 .	<i>Infrast ructur e Grants to Collge s</i>	1.2	1.0 5	1.0 5	0.8	0.7	0.7	2.0	1.7 5	1.7 5	YES The Constr uction, Renov ation and purcha se compl eted	0.25 crore s to recei ve. Certif icate of comp lation attac hed	100 % work s and purch ase comp lated 87.5 %fun d relea sed and paym ent done.
	Total	1.2	1.0 5	1.0 5	0.8	0.7	0.7	2.0	1.75	1.7 5			

Section 2: Details about the College:

A. Vision Mission of the College:

Vision

“Excellence and committed service in every realm of teaching endeavour”

Mission

“Nurture the holistic development of prospective teachers for a just and humane society”.

B. Broad objectives of the College:

- To equip the teachers to develop and practice innovative methods and strategies in teaching learning process
- To develop into a centre of excellence in teacher education for preparing quality teachers.
- To promote learning, research, extension activities and development.
- To develop intellectually competent, morally upright, psychologically integrated and socially committed teachers for service in the emerging global scenario of education.
- To acquire effective communication skills and leadership qualities

C. Organizational Structure for Operation and Management

PKM College of Education, a Government Aided Teacher Education Institution affiliated to Kannur University is under the Barmarium Pastoral Centre Trust. His Grace Mar.Mathew Moolakattu, Arch Bishop, Archaparchy Kottayam is the patron of the college. The general management of the college is vested in the Governing body whose ex-officio president is the manager His Excellency Mar.Joseph Pandarasseril, Auxiliary Bishop, Archaparchy of Kottayam. V. Rev. Fr Joy Kattiyankal and V. Rev. Fr Philip Ramachanattu render their service as Pro-Manager and Local Manager & Bursar Respectively.

D. Role and Responsibilities of Key Positions/ bodies

The Governing Body manages the whole activities of the college. The college council comprising of the Principal and heads of department of each subject (members of the staff council), librarian and the ministerial head of administrative staff of the college office manages the internal administration of the Institution.

The RUSA project of the college is managed by the Board of Governors and the Project Monitoring Unit constituted as per the guidelines of the RUSA.

E. Board of Governance

RUSA 3.0 @PKM COLLEGE OF EDUCATION, MADAMPAM, KANNUR BOARD OF GOVERNERS(BoG)					
No	Composition	Name	Designation	Qualification	Tenure
1.	<i>Chairman</i>	Mar Joseph Pandarasseril	Manager	Auxiliary Bishop of the Archeparchy of Kottayam	Project Period
2.	<i>Governing Body Member and Representative of the Management</i>	Rev Fr Joy Kattiyankal	Pro Manger Governing Body Member	Director , Barmarium Pastoral Centre, Kannur	Till in position
3.	<i>Governing Body Member and Representative of the local society</i>	Rev Fr Philip Ramachanatt	Local Manager	Forane Vicar, St Lourdes Church, Madamapam	Till in position
4.	<i>Head of the Institution and Governing Body Member</i>	Dr Jessy N C	Principal	Ph D in Education	Project Period
5.	<i>RUSA project Coordinator of the Institution and Governing body Secretary</i>	Dr Prasanth Mathew	Assistant Professor in Physical Science	Ph D in Education	Project Period
6.	<i>Representative from the Institution –IQAC coordinator</i>	Dr. Veena Appukuttan	Associate Professor in Social Science Education	Ph D in Education	Project Period
7.	<i>Representative of the Faculty of the institution</i>	Dr Sinoj Joseph	Assistant Professor in Physical Education	Ph D in Physical Education	Project Period
8.	<i>Representative of Local Body/ Society</i>	Mr Benoy K	Ex-Municipal Councillor, Sreekandapuram Municipality	Principal , Sacred Heart Higher Secondary School, Payyavoor	Project Period
9.	<i>Representative from Academia</i>	Dr Shiju George	Member, Governing Body	Ph D in Mathematics	Project Period
10.	<i>Representative from Industry/ Agency for Construction and Renovation</i>	Mr Augustine TA	Overseer Grade 1(Rtd)	Diploma in Civil Engineering	Project Period

F. Project Monitoring Unit (PMU) details

RUSA 3.0 @PKM COLLEGE OF EDUCATION, MADAMPAM, KANNUR PROJECT MONITORING UNIT					
No	Composition	Name	Designation	Qualification	Tenure
1.	<i>Principal of the College</i>	Dr Jessy N C	Principal	Ph D in Education	Project Period
2.	<i>One representative of the Governing Body of the college</i>	Rev Fr Joy Kattiyankal	Pro Manger Governing Body Member		Till in position
3.	<i>RUSA Project Coordinator of the college</i>	Dr. Prasanth Mathew	Assistant Professor in Physical Science	Ph D in Education	Project Period
4.	<i>Senior faculty of the College</i>	Dr. Veena Appukuttan	Associate Professor in Social Science Education	Ph D in Education	Project Period
5.	<i>Administrative Officer or such other equivalent officer of the college</i>	Ms. Minimol Simon	Junior Superintendent		Project Period
6.	<i>President/ Secretary/ Office bearer of the PTA of the college</i>	Mr. Cyriac Abraham	PTA Executive Member		Till in position
7.	<i>Student representative by the Principal</i>	Ms. Anitta Biju	Student Teacher, B Ed. 2023-25 batch		Till in position

G. Total enrolment in the college:

100

(Annual intake of 1 unit as per the norms of NCTE =50 per year)

H. Details of the Departments and Courses offered in the college:

Sl. No.	Departments	Course Offered	Duration (years)	Total enrolment	Sanctioned posts of Regular Faculty	Posts filled in Regular mode	Percentage of Posts filled	Student Teacher Ratio
1	Two year B.Ed Programme with six optional subjects: English, Malayalam, Mathematics, Natural Science, Physical Science and Social Science One basic unit of 50 per year as per the norms of NCTE			100	1+8 = 9 (Principal +Faculty) Presently, out of the 9 faculty, 8 are permanently appointed in regular mode and the vacancy for the post of Malayalam appointed as guest faculty by Government.		100%	8:100 = 1:12.5

I. Details of Non-Teaching Staff:

Department	Sanctioned Posts	Posts yet to be Sanctioned
Administrative	14	
Technical		
Others		
Total	14	NIL

J. Teaching staff: Non-teaching ratio –

9:14

Section 3: Infrastructure Details :

A. Existing Land Availability (in acres):

5 Acres

B. GPS Coordinates of the college:

Latitude: 12.0283367

Longitude: 75.5266117

Section 4: Proposal Details:

Table:4.1
PROJECT –INTRODUCTION
Introduction
A. Existing Digital facilities and Distinctiveness of the Institution- ICT- based Digital Infrastructure
<i>Physical and Digital Infrastructural Facilities</i>
• Renovated seven Technologically Enabled Classrooms and ICT laboratory (under RUSA 2.0) • Newly Constructed Building with Five Technologically Enabled Classrooms (under RUSA 2.0) • Advanced digital Display Boards in all the classrooms (under RUSA 2.0 purchase)
<i>Digital Software facilities available</i>
• Learning Management System (LMS) • ILMS • INFLIBNET
<i>Digital Student Supports provided</i>
• High Speed Internet Connectivity with Wi Fi access to all • Laptop for All project for providing digital supports to needy students
<i>Digital Certification Courses offered</i>
• Value added certification courses for the student teachers of the college in Multimedia and ICT • Online Add-on Certificate courses for the Teachers and Student Teachers in Artificial Intelligence and Robotics
<i>Digital Expertise and Linkages established</i>
• Alumni Networking as a support system for digital Expertise • Linkages with Engineering Colleges and other Technology based Institutions and Agencies for getting Technical Supports • Linkages with other Teacher Education Institutions and other Higher Education Institutions for mutual sharing of Technologies • Linkages with Schools for developing and disseminating digital learning resources.
B. Distinctiveness of the Institution- Equity, Access, and Inclusion
• Priority given for admission of the Students • Next appointment of the Faculty reserved for specially abled.
<i>Access</i>
• Access for the specially abled to both academic buildings, to all the floors and to all the classrooms • Access for the specially abled to administrative spaces • Toilets for Specially abled in both academic buildings • Wellness Centre and the sports academy for the underprivileged(women, minorities, SC/ST and OBC and the disabled)
<i>Inclusion</i>
• Special training given for the student teachers in inclusive education at schools • Share your Spare movement of PKM addresses the issues of the underprivileged. • Institutional goals addresses the social and moral issues related to the underprivileged especially women and specially abled.

<i>Linkages</i> • Linkages with Special Education Schools of the District. • Linkages with district agencies for Inclusion • Linkages with Governmental and Non- Governmental Organizations for the upliftment of underprivileged Groups.
C. Distinctiveness of the institution in Accreditation • First NAAC Accreditation in the year 2006 with A grade after its establishment as a self-financing TEI in 1995 and later upgraded as government aided TEI in 1997. • Second NAAC Accreditation in the year 2016 with CGPA 3.11 (4 point scale) • Third NAAC Accreditation under process-IIQA submitted (based on Teacher Education Accreditation Manual). • No other Government /Aided/ Self-financing Teacher Education Institutions of Kannur University has gone for its accreditation. • Currently, IQAC of P.K.M. College of Education is providing support as consultancy for the accreditation of other non-accredited TEIs.
Aim of the Project The project will focus on strengthening the existing Teacher Education Institution (TEI) by transforming • the existing Centre of Education into a Centre of E-Education; • the existing TEI into an Inclusive TEI; and • the existing IQAC of the TEI into Mentor IQAC of NAAC for Teacher Education Institutions.
The project aims at • Strengthening the Teacher Education Institution, faculty and students by upgrading the Physical and ICT-based Digital Infrastructure and thereby improving the quality of teaching learning process and convert the single-stream TEI into multiple streams institution. • Providing Inclusive and Accessible Infrastructural and Digital facilities (Inclusive Campus, Accommodation facility for Faculty and Students with Disability, Digital Inclusive Education etc.) to ensure a safe and inclusive learning environment for persons with disability. • Extending the services of the Internal Quality Assurance Cell (IQAC) of the college by acting as a Mentor IQAC of NAAC for other non-accredited Teacher Education Institutions by supporting them to improve their Education and Research quality status and get accredited.
Objectives of the Project I. To transform the existing Centre of Education into a Centre of E- Education by upgrading the Physical and ICT- based Digital Infrastructure and to improve the quality of teacher education by establishing 1. Multimedia Laboratory: E- Content Development Centre- Digital nodal center for digitalizing academic content and resources and delivering digital education through SWAYAM and other MOOCs. 2. Digital Training Application Laboratory: Project based Training Centre for Innovative and Inclusive Education for Teacher Educators, Teachers and Student Teachers in Innovative and Inclusive curricular structures, Innovative

	and Inclusive Pedagogy, Assessment for Learning and Student Supports through online and/or face to face mode.
	3. STEM Laboratory: Centre for skill development courses in Robotics and Artificial Intelligence for Teacher Educators, Student Teachers, School Teachers and school students.
	4. Digital Library: Digital Centre of Research in Education and access to reputed journals for the Teacher Educators, Researchers and Student Teachers.
II.	To provide Inclusive and Accessible Infrastructural and Digital facilities (Inclusive Campus, Accommodation facility for Faculty and Students with Disability, Digital Inclusive Education etc.) to ensure a safe and inclusive learning environment for persons with disability 1. By establishing Amenity Center for the specially abled faculty and students in the campus: Facilities for digital learning; facilities for recreation, fitness training and indoor games; accommodation facilities in the campus; toilet facilities etc. 2. By renovating the existing Wellness Centre and Sports Academy for the underprivileged (women, minorities, SC/ST and OBC and the disabled) and upgrading into an Amphitheatre with Facilities for recreation, fitness training and indoor and outdoor games; facilities for public campaigns, cultural events etc.
III.	To extend the services of the Internal Quality Assurance Cell (IQAC) of the college by acting as a Mentor IQAC of NAAC for other non-accredited Teacher Education Institutions by 1. Mentoring the IQAC of the mentee institution to meet and maintain high standards in Education 2. Providing Training in improving the quality parameters to maintain norms and standards established by accreditation agencies for the IQAC Coordinators, the Administrators, Faculty and the students 3. Providing Technical Supports for documentation and uploading.

Table 4.2 PROJECT PROPOSAL-BUDGET OVERVIEW					
	ITEMS	Construction	Renovatio n	Equipment	Soft Component
1	<i>Establishment of Multimedia Laboratory</i>	25,00,000/-			
2	<i>Establishment of Digital Training Application Laboratory</i>	75,00,000/-			
3	<i>Establishment of STEM Laboratory</i>	25,00,000/-			
4	<i>Establishment of Digital Library</i>	25,00,000/-			
5	<i>Establishment of Amenity Center for the specially abled faculty and students</i>	50,00,000/-			
6	<i>Renovation of the existing Wellness Centre and Sports Academy for the underprivileged into an Amphitheatre</i>		40,00,000/ -		
7	<i>Digital and Non –Digital facilities for the Execution and Establishment of Multimedia Laboratory</i>			50,00,000/ -	
8	<i>Digital and Non –Digital facilities for the Execution and Establishment of Digital Training Application Laboratory</i>			50,00,000/ -	
9	<i>Digital and Non –Digital facilities for the Execution and Establishment of STEM Laboratory</i>			50,00,000/ -	
10	<i>Digital and Non –Digital facilities for the Execution and Establishment of Digital Library</i>			50,00,000/ -	
11	<i>Digital and Non –Digital facilities for the Execution and Establishment of Amenity Center for the specially abled faculty and students</i>			30,00,000/ -	
12	Extension of the services of the (IQAC)				30,00,000/-
	TOTAL	2,00,00,000/-	40,00,000/ -	2,30,00,00 0/-	30,00,000/-
		GRAND TOTAL		5,00,00,000/-	
				FIVE CRORES	

A. Tentative date of completion of Project:

The Proposed Project will be completed within 24 months from date of sanction of the same. The Proposed project will be completed by 31-03-2026.

B. Details of Infrastructure proposed to be constructed:

Table 4.3 Details of Infrastructure proposed to be constructed						
Sl No .	Description of Infrastructure	Purpose of Infrastructure	Proposed Area Sq. m	Total Cost per Sq. m	Total cost	Justification
1.	<i>Establishment of Multimedia Laboratory: E –Content Development Centre</i>	<i>Digital nodal centre for digitizing academic content and resources delivering digital education such as SWAYAM and other MOOCs.</i>	Physical Infrastructure: 900 X 820 (73.8 M ²) inner space room		25,00,000/-	In the context of NEP 2020, the single-streamed TEI has to be upgraded into Multiple streams TEI offering various credit/certified courses in Education. As a Centre of Education maintaining quality standards; as a TEI to be accredited in the third cycle and as a RUSA 2.0 beneficiary institution renovated, the existing buildings and constructed five Technologically Enabled Classrooms has to be upgraded as a College of E-Education.

						The Educational and Human Resources of the Institution and resources of the associated Institutions and local community have to be processed and benefited for the public. The TEI can act as a digital nodal centre for digitalizing academic content and resources and deliver digital education for Teacher Educators, School Teachers and Student Teachers.
2	<i>Establishment of Digital Training Application Laboratory:</i> Project based Training Centre for Innovative and Inclusive Education	<i>Online training of teachers</i>	Physical Infrastructure: 900 X 2285 (205.65 M²) inner space room		75,00,000/-	The “Accessibility Guidelines for the Teacher Education Institutions by NCTE (2022)” in the context of NEP 2020 for Quality and Inclusive Practices in Teacher Education consider Digital Training Application Laboratory as essential in

						every Teacher Education Institutions. It also recommends Project –based Training for teachers in these labs. The Laboratory will function as Project based Training Centre for Innovative and Inclusive Education for Teacher Educators, Teachers and Student Teachers in Innovative and Inclusive curricular structures, Innovative and Inclusive Pedagogy, Assessment for Learning and Student Supports through online, face to face and hybrid modes.
3.	<i>Establishment of STEM Laboratory: AI and Robotics Centre</i>	<i>Opening of STEM courses</i>	Physical Infrastructure: 900 X 750 (67.50 M²) inner space room		25,00,000/-	The Atal Tinkering Laboratories (ATLs) under the Atal Innovation Mission of the NITI Ayog, Government of India to nurture an

						innovative mindset amongst high school students have been established in many of the High schools in Kerala. The schools are lacking trained teachers to maintain and monitor the STEM – ATL laboratories. The Teacher Education Curriculum do not have the provision to train the student teachers. P.K.M. College of Education provides introductory level orientation to interested student teachers in ATL by associating with ATL labs. It is an urgent need to establish well equipped STEM-ATL laboratory and opening of STEM Courses for Teacher Educators, Student
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						Teachers and School Teachers
4	<i>Establishment of Digital Library:</i> Centre for Research	<i>Well-equipped research laboratories, Digital libraries with subscriptions to reputed journals</i>	Physical Infrastructure: 900 X 750 (67.50 M ²) inner space room		25,00,000/-	The TEI is a center for research in Education; undertaking Research Projects and providing Research Guidance and Consultation. The Human Resources available in the institution include nine members of the faculty-seven of them are PhD holders and two of them are pursuing their PhD. Three of the faculty are Research Guides in Education. The faculty has successfully completed Major and Minor Research Projects funded by UGC and PMMMNMT T. More than 80% Student Teachers used to Participate, Present, and Publish Research

						papers in Conferences. The digital library can contribute to the quality enhancement of the TEI and advancement in Educational Research.
5.	<i>Establishment of Amenity Center for the specially abled faculty and students in the campus.</i>	<i>Hostels and adequate toilet facilities for students specially for women/ transgenders, specially abled-friendly campus and special facilities</i>	Physical Infrastructure: 900 X 1500 (135 M ²) inner space room		50,00,000/-	National Education Policy 2020, the global educational development agenda reflected in Goal 4 of the 2030 Agenda for Sustainable Development seeks to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all”. The “Accessibility Guidelines for the Teacher Education Institutions by NCTE (2022)” in the context of NEP 2020 for Quality and Inclusive Practices in Teacher Education recommends

						inclusive and Accessible infrastructure in all TEIs. The TEIs are directed to provide support and hostel accommodation to prospective teachers and faculty with disabilities so that they can discharge their duties effectively. It also recommends to create a climate of inclusion and ensure the participation of students in civic and community engagement. The Amenity Centre for the Specially Abled can create a climate of inclusion in the TEI.
		Total			2,00,00,000 /-	

C. Details of Infrastructure proposed to be Renovated/upgradation:

Table 4.4. Details of Infrastructure proposed to be Renovated/upgradation						
Sl No .	Description of Infrastructure	Detail of renovation/upgradation proposed	Proposed Area Sq. m	Total Cost per Sq. m	Total cost	Justification
1	Wellness Centre and Sports Academy for the underprivileged	<i>Renovation of the existing Wellness Centre and Sports Academy for the underprivileged</i> (women, minorities, SC/ST and OBC and the disabled) and upgrading into an Amphitheatre			40,00,000 /-	The college has a multi utility semi roofed Wellness centre and sports academy for the underprivileged. As a TEI established and managed by Minority Community committed for the upliftment of the migrated minority community of Northern Malabar, it has been working as a community centre for the upliftment of the Community. Various community extension programmes have been implemented for the under privileged (women, minorities,

						SC/ST and OBC and the disabled) The existing center for wellness and the sports academy has to be renovated and upgraded as an amphitheater.
		Total			40,00,000 /-	

D. Details of Equipment to be procured:

Table 4.5. Details of Equipment to be procured					
Sl. No.	Name of the Equipment	Quantity	Cost per Unit	Total Cost	Justification
1.	Digital and Non-Digital Equipment and Accessories necessary for the <i>establishment and execution</i> of Multimedia Laboratory: E –Content Development Centre			50,00,000/-	For the <i>establishment and execution</i> of Multimedia Laboratory: E –Content Development Centre Detailed justification added in table 4.3
2	Digital and Non-Digital Equipment and Accessories necessary for the <i>Establishment and Execution of</i> Digital Training Application Laboratory: Project based Training Centre for Innovative and Inclusive Education			50,00,000/-	For the <i>Establishment and Execution of</i> Digital Training Application Laboratory: Project based Training Centre for Innovative and Inclusive Education Detailed justification added in table 4.3
3.	Digital and Non-Digital Equipment and Accessories necessary for the <i>Establishment and Execution of</i> STEM Laboratory: AI and Robotics Centre			50,00,000/-	For the <i>Establishment and Execution of</i> STEM Laboratory: AI and Robotics Centre Detailed justification added in table 4.3

4	Digital and Non-Digital Equipment and Accessories necessary for the <i>Establishment and Execution of Digital Library:</i> Centre for Research			50,00,000/-	For the <i>Establishment and Execution of Digital Library:</i> Centre for Research Detailed justification added in table 4.3
5.	Facilities for digital learning; facilities for recreation, fitness training and indoor games; facilities and accessories for accommodation in the campus; facilities and accessories for toilet etc. Necessary for the <i>Establishment of Amenity Center</i> for the specially abled faculty and students in the campus.			30,00,000/-	For the <i>Establishment of Amenity Center</i> for the specially abled faculty and students in the campus. Detailed justification added in table 4.3
		Total		2,30,00,000/-	

E. Details of Soft component activities

Table 4.6. Details of Soft component activities							
Sl . No.	Activity	Purpose	Details	Unit (Such as number of vocational courses, mentorship programmes, etc)	Total Cost	Target number of beneficiaries	Expected outcome
1	Extension of the services of the Internal Quality Assurance Cell (IQAC) of the college by acting as a Mentor IQAC of NAAC for other non-accredited Teacher Education Institutions by • Mentoring the IQAC. • Training the IQAC Coordinators, the Administrators, Faculty and the students. • Providing Technical Supports	Accreditation of Non-Accredited Institutions and Improving Accreditation & Developing Quality Teaching and Learning processes by <i>strengthening the Internal Quality Assurance Cell (IQAC) of NAAC</i>	The accreditation process of TEIs, through the new revised manual (2020-21) for NAAC accreditation of the TEIs have made the accreditation process complex.	Regular and frequent (online and offline) • Mentoring the IQAC. • Training the IQAC Coordinators, the Administrators, Faculty and the students. • Providing Technical Supports	30,00,000/-	Six Teacher Education Institutions	Non-accredited TEIs of Kerala will be accredited especially of the Kannur University. Quality improvement of Teacher Education Institutions

		The present status of the accreditation of the TEIs of Kerala reveals the reluctance of the TEIs to undertake the accreditation process. As a Teacher Education Institution accredited two times with A grade and moving forward for the third cycle of accreditation (Based on the new manual for TEIs), the college can act as a mentor IQAC of NAAC accreditation for TEIs utilizing the resources available by RUSA 2.0 and the resources of proposed RUSA 3.0 for providing guidance, training and technical supports for improving the quality of the TEIs of Kerala especially Kannur University.				
			Total	30,00,000/-		

F. Year-wise Financial estimates for all Activities

Table 4.7. Year-wise Financial estimates for all Activities						
S. No	Items	Whether new construction or renovation or Equipment or soft component	State Proposal (Rs. In Lakhs)			
			2023-24	2024-25	2025-26	Total
1	<i>Physical Infrastructure for the Establishment of</i> Multimedia Laboratory	New Construction		25 lakhs		
2	<i>Digital and Non – Digital facilities for the Execution and Establishment of</i> Multimedia Laboratory	Equipment			50 lakhs	
3	<i>Physical Infrastructure for the Establishment of</i> Digital Training Application Laboratory	New Construction		75 lakhs		
4	<i>Digital and Non – Digital facilities for the Execution and Establishment of</i> Digital Training Application Laboratory	Equipment			50 lakhs	
5	<i>Physical Infrastructure for the Establishment of</i> STEM Laboratory	New Construction		25lakhs		
6	<i>Digital and Non – Digital facilities for the Execution and Establishment of</i> STEM Laboratory	Equipment			50 lakhs	
7	<i>Physical Infrastructure for</i>	New Construction		25 lakhs		

Table 4.7. Year-wise Financial estimates for all Activities						
S. No .	Items	Whether new construction or renovation or Equipment or soft component	State Proposal (Rs. In Lakhs)			
			2023-24	2024-25	2025-26	Total
	<i>the Establishment of Digital Library</i>					
8	<i>Digital and Non – Digital facilities for the Execution and Establishment of Digital Library</i>	Equipment			50 lakhs	
9	<i>Physical Infrastructure for the Establishment of Amenity Center for the specially abled faculty and students</i>	New Construction		50 lakhs		
10	<i>Digital and Non – Digital facilities for the Execution and Establishment of Amenity Center for the specially abled faculty and students</i>	Equipment			30 lakhs	
11	<i>Renovation of the existing Wellness Centre and Sports Academy for the underprivileged into an Amphitheatre</i>	Renovation		40 lakhs		
12	Extension of the services of the (IQAC)	Soft Component		15 lakhs	15 lakhs	
	Total			255 lakhs	245 lakhs	500 lakhs

G. Timeline for completion of project:

Table 4.8 Timeline for completion of project							
Phase	Items	Whether new construction or renovation or Equipment or soft component	Percentage of completion in the relevant phase	Physical Target		Financial Target	
				Start Date	End Date	Start Date	End Date
I	<i>Physical Infrastructure for the Establishment of Multimedia Laboratory</i>	New Construction	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	<i>Physical Infrastructure for the Establishment of Digital Training Application Laboratory</i>	New Construction	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	<i>Physical Infrastructure for the Establishment of STEM Laboratory</i>	New Construction	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	<i>Physical Infrastructure for the Establishment of Digital Library</i>	New Construction	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	<i>Physical Infrastructure for the Establishment of Amenity Center for the specially abled faculty and students</i>	New Construction	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	<i>Renovation of the existing Wellness Centre and Sports Academy for the underprivileged into an Amphitheatre</i>	Renovation	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	Extension of the services of the (IQAC) Phase 1	Soft Component	50%	01-04-2024	31-03-2025	01-04-2024	31-03-2025

Table 4.8 Timeline for completion of project							
Phase	Items	Whether new construction or renovation or Equipment or soft component	Percentage of completion in the relevant phase	Physical Target		Financial Target	
				Start Date	End Date	Start Date	End Date
. II	Digital and Non –Digital facilities for the Execution and Establishment of Multimedia Laboratory	Equipment	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
	Digital and Non –Digital facilities for the Execution and Establishment of Digital Training Application Laboratory	Equipment	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
	Digital and Non –Digital facilities for the Execution and Establishment of STEM Laboratory	Equipment	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
	Digital and Non –Digital facilities for the Execution and Establishment of Digital Library	Equipment	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
	Digital and Non –Digital facilities for the Execution and Establishment of Amenity Center for the specially abled faculty and students	Equipment	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
	Extension of the services of the (IQAC) Phase 2	Soft Component	100%	01-04-2025	31-03-2026	01-04-2025	31-03-2026

H. Courses proposed to be added:

Table 4.9. Courses proposed to be added								
Sl . No.	Department	Proposed Course		Duration	Enrolment Targets for the first year	Year-wise Enrolment Targets for first 5 years	Whether course approved by UGC	Whether sufficient faculty sanctioned for the course
1								
		U	4 –year integrated B.Ed.(Secondary)	4 year	50	50 each year added	YES	YES
		G						

I. Pre-Collaboration with local industries for Research/ Internship/ Placements/ Apprenticeship:

1. With existing Linkages:

As a Teacher Education Institution it has linkages with different agencies for Research, Extension, Internship, Placement etc. (www.pkmcollege.org). The TEI has established MoUs with Governmental and Non-Governmental agencies.

- It has Linkages with Governmental Agencies such as KSCSTE, Energy Management Centre, Bhoomithra Sena, YIP etc. for Research and Extension
- It has Linkages with Non-Governmental Agencies such as Malabar Social Service Society; Peace Channel, Nagaland; Peace and Harmony Foundation etc.for Research and Extension.
- It has Linkages with Educational Agencies such as SCERT, DIET etc for Innovations and Inclusion
- It has Linkages with other Teacher Education Institutions in and outside the state for Research, Extension, Exchange Programmes and Innovations
- It has Linkages with Arts and Science Colleges and Engineering Colleges for Research, Extension and Innovations
- It has Linkages with Schools in and outside the state and abroad for internship and placement
- It has Linkages with Skill Development Agencies such as Industries, Training Centres etc for skill development both hard and soft.
- The Alumni Networking of the Institution actively contributes for the placement of the outgoing students in India and abroad

Under the Management of the TEI there are three Arts and Science Colleges (BCM College, Kottayam, St Stephens College, Uzhavoor and St Pius X College, Rajapuram.). The Teacher Education Institute will be acting as the Centre for Education (Department of Education) as the NEP is implemented (as per the norms and regulations of NCTE and respective Universities).

J. The details of the Activities to be undertaken from the Suggestive List of Activities under the component as provided in Chapter VI of the Guidelines

Table 4.10. The details of the Activities				
Activity	How has it been Included in Tables above and reference of Table No. above	Details of how activity to be undertaken	Cost for the activity	Timeline for implementation of the activity
Adoption of <u>Academic Bank of Credits</u>				
Adoption of <u>Multiple Entry and Exit</u>				
Adoption of <u>Guidelines on NHEQF</u>				
Using <u>ODL and Online Programmes such as SWAYM,/MOOCS</u>				
<u>Digital nodal centres for digitising academic content and resources delivering digital education such as SWAYAM and other MOOCs.</u>	<i>Establishment and Execution of Multimedia Laboratory: E –Content Development Centre</i> Refer Table 4.3 and Table 4.5	Physical Infrastructure: 900 X 820 inner space room Digital and Non- Digital Equipment and Accessories	25,00,000 /- 50,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025
Internship/Apprenticeship <u>Embedded Degree Programme</u>				
<u>Alumni Connect portal</u>				
Adoption of Guidelines of UGC on <u>Institutional Development Plan (IDP)</u>				
Introduction and access to <u>Online ERP portal (Samarth Portal)</u> for faculties containing all academic working processes (Online information dashboard,				

timetable, examination allotment schedule, evaluation, and other academic activities)				
Evaluation Reforms by strengthening the 'Internal Quality Assurance Cell' (IQAC) of NAAC	Extension of the services of the Internal Quality Assurance Cell (IQAC) of the college by acting as a Mentor IQAC of NAAC for other non-accredited Teacher Education Institutions by • Mentoring the IQAC. • Training the IQAC Coordinators, the Administrator s, Faculty and the students. • Providing Technical Supports Refer Table 4.6	Digital Resources, Technical expertise and Training facilities	30,00,000 /-	Execution by 01-06-2024
<u>Smart Classroom, Computer Lab, Wi-Fi Facilities</u>				
Online training of teachers,	<i>Establishment and Execution of</i> Digital Training Application Laboratory: Project based Training Centre for Innovative and Inclusive Education Refer Table 4.3 and Table 4.5	Physical Infrastructure: 900 X 2285 inner space room Digital and Non- Digital Equipment and Accessories	75,00,000 /- 50,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025

<u>Setting up start-up incubation centers and technology development centers</u> for skill-based courses with the help of Industries/Micro, Small & Medium Enterprises (MSME) at States/UTs level				
<u>Certification Courses</u> embedded in teaching				
Well-equipped research laboratories, Digital libraries with subscriptions to reputed journals,	<i>Establishment and Execution of Digital Library:</i> Centre for Research Refer Table 4.3 and Table 4.5	Physical Infrastructure: 900 X 750 inner space room Digital and Non-Digital Equipment and Accessories	25,00,000 /- 50,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025
<u>Bridge courses</u> for SEDG students				
<u>Online portal for student services</u> (attendance, academic record, hostel-related services, complaint registration, etc.)				
<u>Placement/ Training and Certification programmes</u> , Structural Reforms according to the increased industry-ready courses, and industry-academia linkages				
Construction/Renovation of Infrastructure of Institute	Renovation of the existing Wellness Centre and Sports Academy for the underprivileged (women, minorities, SC/ST and OBC and the disabled) and upgrading	Facilities for recreation, fitness training and indoor and outdoor games; facilities for public campaigns, cultural events etc.	40,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025

	into an Amphitheatre			
	Refer Table 4.4 4.5			
Purchase of necessary Equipments for the institute				
Hostels and adequate toilet facilities for students specially for women/ transgenders, specially abled-friendly campus and special facilities	<i>Establishment of Amenity Center</i> for the specially abled faculty and students in the campus.	Physical Infrastructure: 900 X 1500 inner space room with	50,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025
	Refer Table 4.3 and Table 4.5	Facilities for digital learning; facilities for recreation, fitness training and indoor games; accommodation facilities in the campus; toilet facilities etc.	30,00,000 /-	
Opening of STEM courses	<i>Establishment and Execution of STEM Laboratory:</i> AI and Robotics Centre	Physical Infrastructure: 900 X 750 inner space room	25,00,000 /-	Establishment by 31-03-2025 & Execution by 01-06-2025
	Refer Table 4.3 and Table 4.5	Digital and Non- Digital Equipment and Accessories	50,00,000 /-	
Vocational courses for 21st century skills, Internships/Training, Innovation of new courses regarding Vocational education				
Any other Activity from the Activities List				

Section 5: Proposed Outcomes:

Targets to be set while submitting proposal and achievements to be submitted Quarterly						OUTPUT
	Indicators	Base Year (Mention year) Figures	Target for 31.03.2024	Target for 31.03.2025	Target for 31.03.2026	
Outcome	% Increase in number of Students enrolled (UG/PG/PhD) compared to base year			Starting of the 4 year Integrated teacher Education Programme (secondary)		
	Number of ICT-Based Digital Infrastructures undertaken under the project			Establishment of Multimedia Laboratory: E –Content Development Centre	E resources for Teacher Education Curriculum and School Curriculum E resources for Inclusive Teacher Education	The TEI will be a Centre of E- Education offering Multi stream Programmes and content Development Centre for Multi-level curriculum
				Establishment of Digital Training Application Laboratory: E- Learning and Training Centre	Trained Teacher educators, School teachers and student teachers in innovative and inclusive strategies	TEI will be an advanced Digital Training Center for the Teacher Educators , Teachers and Student Teachers offering Multi- stream Programmes in the context of NEP 2020
				Establishment of STEM Laboratory: AI and Robotics Centre	Trained Teacher educators, School teachers and student teachers in Robotics and Artificial Intelligence	Acquisition of skill in Robotics and AI of Teacher Educators , Teachers , Student Teachers and

						School students TEI will become a centre offering STEM courses
				<i>Establishment of Digital Library:</i> Centre for Research	Quality enhancement in educational research	Centre of Research for educational researchers and Teacher Educators and student teachers
	If unaccredited, then Whether institution gets accreditation					
	If accredited, then whether institution increases in accreditation score			Extension of the services of the Internal Quality Assurance Cell (IQAC) of the college by acting as a Mentor IQAC of NAAC for other non-accredited Teacher Education	Non-accredited TEIs of Kerala will be accredited especially of the Kannur University. Quality improvement of Teacher Education Institutions	Mentor TEI for NAAC/ Model TEI for other TEIs
	Number of Campus placement sessions to be held for last semester students (Cummulative figures starting from year of approval)					
				<i>Establishment of Amenity Center</i> for the specially abled faculty and students in the campus.	Accessibility and equity established in the campus	Safe and inclusive learning environment for persons with disability
				<i>Renovation of the existing Wellness Centre</i> and	Advancement in the social, Mental and physical	Center for the upliftment of the unprivileged

				Sports Academy for the underprivileged (women, minorities, SC/ST and OBC and the disabled) and upgrading into an Amphitheatre	development of the underprivileged.	
Output	Whether project completed				YES	

C. Other sources of funds for the institution:

S. No.	Organisation/ Project/ any other Scheme	Amount	Activities supported
	Total		

1. The Institution/State undertakes that there will be no duplication of items of expenditure between the sources of funding:

Section 6: Other sources of funds for the institution:

S. No.	Organisation/ Project/ any other Scheme	Amount	Activities supported
	Total		

1. The College undertakes that there will be no duplication of items of expenditure between the sources of funding

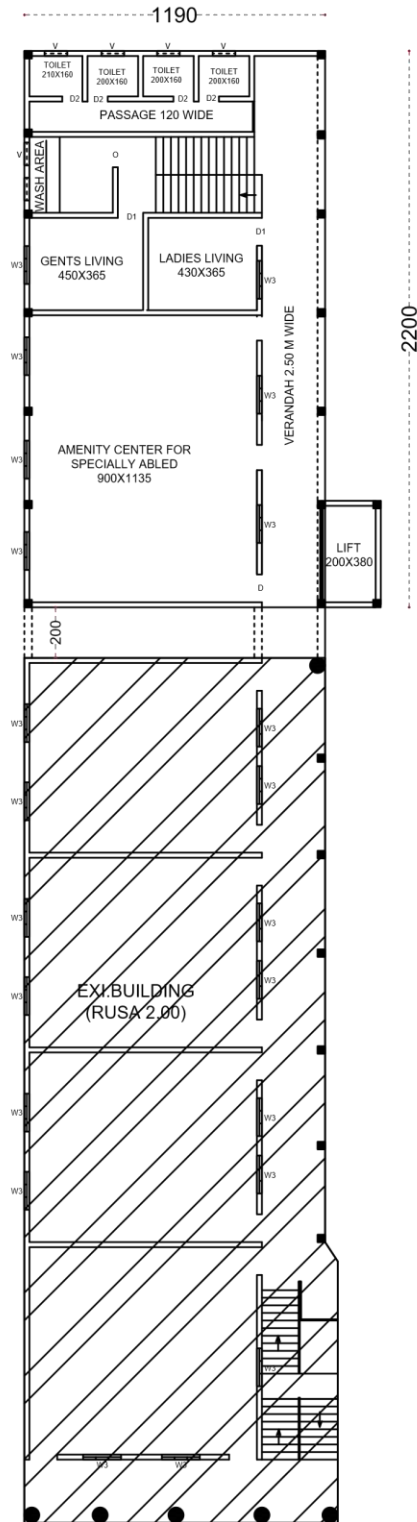
Section 7: Enclosing documents

Please **enclose all relevant documents** to support the DPR, architectural blueprints and elevation diagrams, maps of the land signed by the competent authority etc. for the proposal

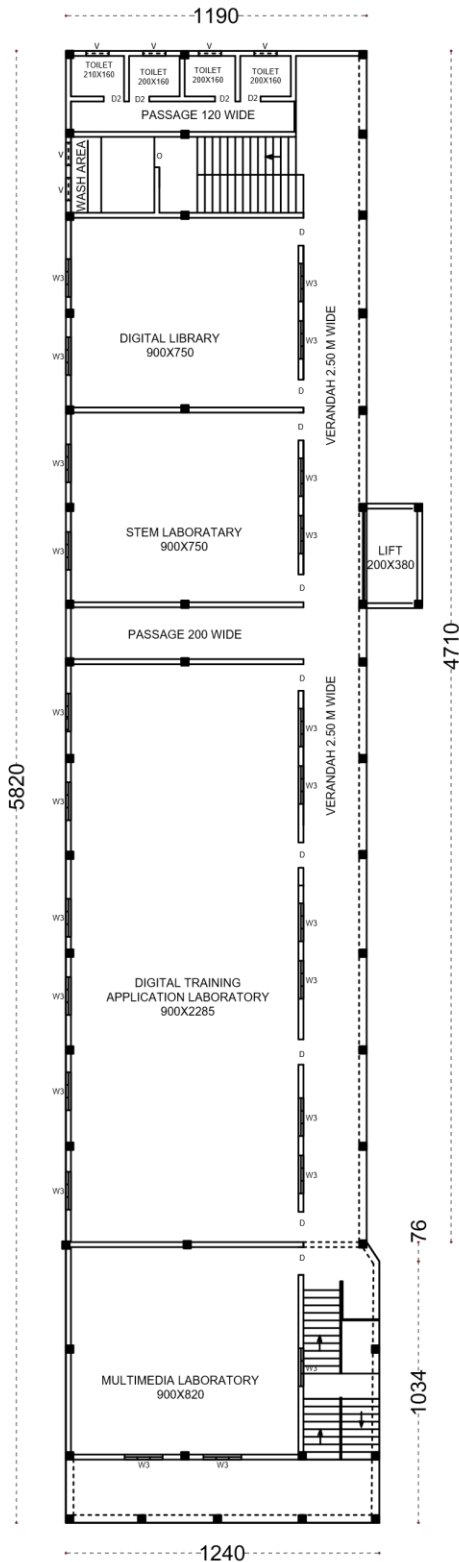
1. Architectural Blue Print of the new construction RUSA 3.0
2. Site Plan of the college
3. Completion Certificate of RUSA 2.0

PM-USHA (RUSA 3.0) PROJECT PROPOSAL FOR PHYSICAL INFRASTRUCTURE
P.K.M COLLEGE OF EDUCATION.

PRO GROUND FLOOR

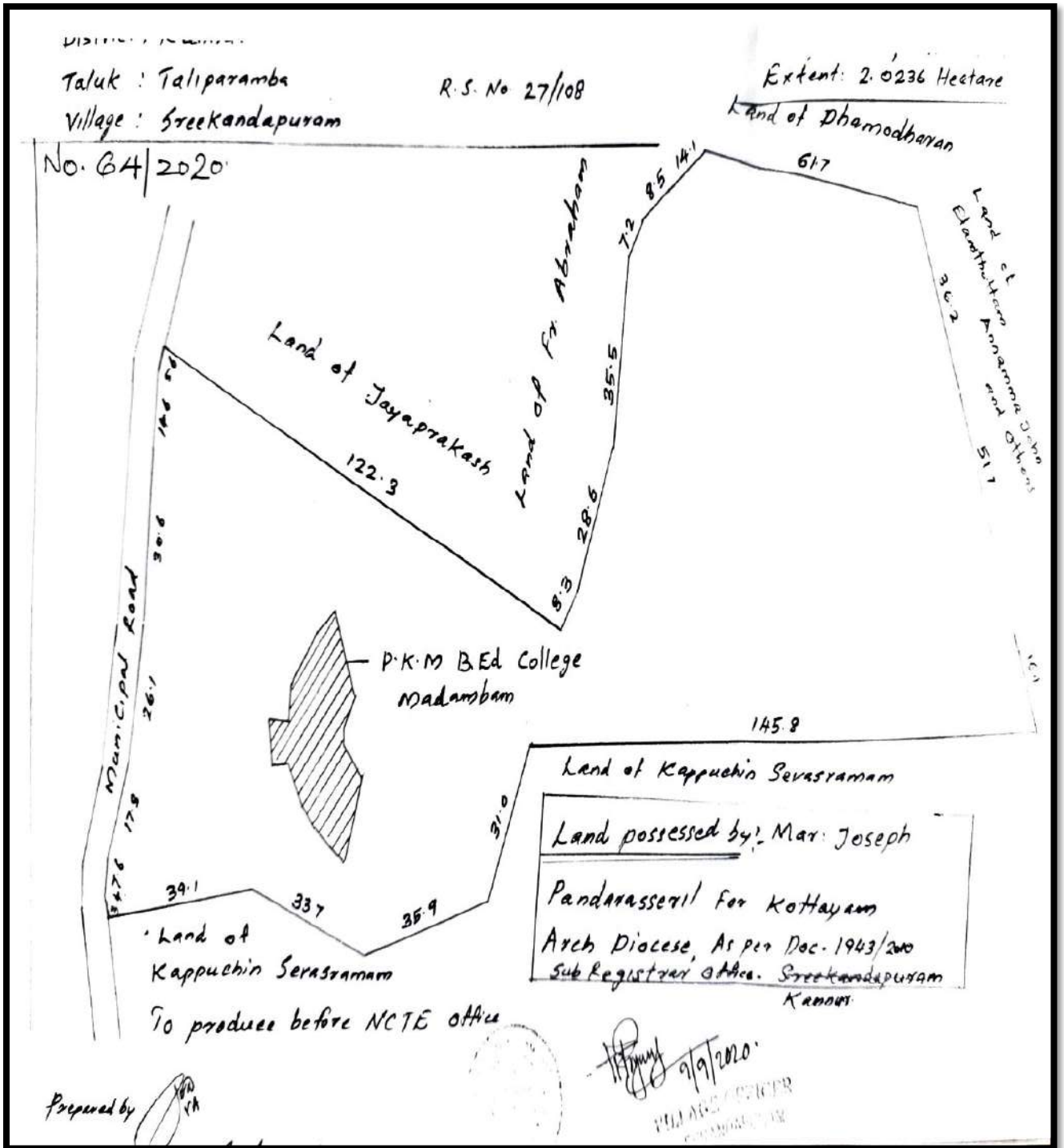


EXI GROUND FLOOR



PRO FIRST FLOOR

Site Plan



Ph: 0490 - 2342729, 2342719
www.kannurnirmithi.kerala.gov.in
Email: kannurnirmithi@gmail.com



KANNUR DISTRICT
NIRMITHI KENDRA

GUNDERT ROAD, THALASSERY- Pin 670101

A Building Centre for cost Effective Building Materials & Techniques
(Sponsored by HUDCO- Govt. of India & Govt. of Kerala)

KNK/1888/2020 (2)

11-07-2023

COMPLETION CERTIFICATE

This is to certify that the Construction of Academic Building and Renovation and Up gradation of Academic building at PKM College of Teacher Education, Kaithapram, Madampam is completed.

Executive Secretary, Nirmithi Kendra,
Thalassery, Kannur



Section 8: Commitments:

- A. Adequate Girls hostels and Girls Toilets
- B. Follow the state reservation policy
- C. Building to be disable friendly and also ensure special facilities/equipment for the disabled
- D. Adequate per student provisions for classrooms, library and laboratory facilities
- E. Inclusion of ICT in teaching-learning process and provision of internet access to all students
- F. Implementation of all academic, examination and governance reforms
- G. Aim to achieve a better student teacher ratio (within a time-frame)
- H. Aim to achieve a better Teaching to Non-Teaching Staff (within a time-frame)
- I. All the recurring expenditure (including salaries) and non-recurring expenditure beyond the scope of the approval under the scheme would be met by the State Government.

Note again:

- 1) Maximum Central Grant will be limited to the State/ UT's funding ratio for the approval under the Scheme.
- 2) State/Institution will bear the excess expenditure over and above the Central share

I verify that all the data entered in above are true and correct to my knowledge

Signature of the Head of the Institute

SCORING AND RECOMMENDATION BY THE STATE/UT

The score received by the above proposal as per the short-listing criteria given in the guidelines is as follows:

ONLY STATE GOVERNMENT AND GOVERNMENT-AIDED COLLEGES WILL BE ELIGIBLE

Short Listing Criteria Indicators & Weights:

A. Priority would be given to units in the Focus Districts

S. N.	Indicator	Weights	Score received by the Unit
1	Situated in Focus Districts	100 marks	
2	Not situated in Focus Districts	10 marks	

B. Prior support under any Phases of RUSA

(i) **Approval/amount approved** means Total Approval (including Central and State share) of the all the number of times the unit has been approved under all the phases of RUSA under all the components.

(ii) **Completion certificate** means Completion Certificates for all number of times the unit has been approved under all the phases of RUSA under each component i.e. Submission of Completion certificate for less than the number of approvals will not be considered

S. N.	Indicator	Weights	Score received by the Unit
1	College has not been previously approved under any component of RUSA	100 marks	
2	Approval only once under RUSA but not released any central share by Ministry, so far	80 marks	
3	Approval either once or more under RUSA but has already utilised the full amount approved and has submitted completion certificate	40 marks	
4	Approval only once under RUSA but full amount approved not yet utilised and completion certificate not yet submitted	10 marks	
5	Approval more than once under RUSA but full amount approved not yet utilised and completion certificate not yet submitted	5 marks	

C. Students Enrollment: College with more Student Enrollment would be given preference with the following weightage:

S. No.	Indicator	Weights	Score received by the Unit
1	More than 2,500	60 marks	
2	2000-2499	50 marks	
3	1500-1999	40 marks	
4	1,000-1499	30 marks	
5	Below 1,000	20 marks	

D. Number of Departments in College : College with more number of Departments would be given preference with the following weightage:

S. No.	Indicator	Weights	Score received by the Unit
1	15 or More than 15	40 marks	
2	11-14	30 marks	
3	5-10	20 marks	

E. Department wise Faculty Positions filled in regular mode: College with large faculty positions filled in regular mode would be given preference with the following weightage:

(Each Department data would be filled separately)

S. No.	Indicator	Weights	Score received by the Unit
1	Above 85% of sanctioned faculty positions	30 marks	
2	80-84.9% of sanctioned faculty positions	25 marks	
3	70-79.9% of sanctioned faculty positions	20 marks	
4	60-69.9% of sanctioned faculty positions	15 marks	
5	50-59.9% of sanctioned faculty positions	10 marks	
6	Below 50% of sanctioned faculty positions	5 marks	

F. Department wise Student-Teacher Ratio: College with the minimum gap of Student-Teacher Ratio would be given preference with the following weightage:

(Each Department data would be filled separately)

S. No.	Indicator	Weights	Score received by the Unit
1	Between 1:1 – 1:19	30 marks	
2	Between 1:20 – 1:29	25 marks	
3	Between 1:30 – 1:39	20 marks	
4	Between 1:40 – 1:60	15marks	

5	Below 1:60	5 marks	
---	------------	---------	--

G. Collaboration with local industries for Research/ Internship/ Placements/ Apprenticeship with the following weightage:

S. No.	Indicator	Weights	Score received by the Unit
1	With existing Linkages	25 marks	
2	With scope for linkage	15 marks	
2	Without Linkages	0 marks	

The total score received by the Proposal of the above institution is given in the box below:

The above proposal of..... Under the component of For an amount of Rs.....is recommended by the State for consideration under the scheme of PM-USHA

I verify that all the data entered above are true and correct to my knowledge

Signature and Stamp of the Administrative Secretary of the Higher Education Department of State/UT

P.K.M. COLLEGE OF EDUCATION

MADAMPAM, KAITHAPRAM P.O- 670631, KANNUR, KERALA, INDIA

(Govt. Aided Teacher Education Institution affiliated to Kannur University)

Accredited by NAAC with 'A' Grade, RUSA 2.0 Beneficiary Institution

Recognized by NCTE. Included under UGC 2(f) & 12 B category

E-mail: pkmcedn@yahoo.co.in Website: www.pkmcollege.org

Tel: 0460 2230929, Fax: 04602 232449



PROJECT PROPOSAL FOR

COMPONENT 5- GENDER INCLUSION AND EQUITY INITIATIVES *In Kannur District*

under

PM-USHA (RUSA 3.0)



Proposal for
GENDER INCLUSION AND EQUITY INITIATIVES

Section 1: Preamble

- A. Name of the District: KANNUR
- B. Name of the State: KERALA
- C. Is the district a focus district:
- D. Name of the College: **P.K.M. COLLEGE OF EDUCATION, MADAMPAM**

Section 2: Details about the District:

Higher Education data

GER Data (P.K.M. COLLEGE OF EDUCATION, MADAMPAM)

	2020-21
Total	50
Female (<i>short listing criteria 5.3.C</i>)	44
Male	6
SC Total (<i>short listing criteria 5.3.D</i>)	8
SC Female	8
SC Male	0
ST Total (<i>short listing criteria 5.3.E</i>)	2
ST Female	2
ST Male	0
Transgender (<i>short listing criteria 5.3.F</i>)	0

Section 3: Proposal Details:

Tentative date of completion of Project:

The Proposed Project will be completed within 24 months from date of sanction of the same.
The Proposed project will be completed by 31-03-2026.

A. Details of Infrastructure proposed to be constructed:

B. Details of Infrastructure proposed to be Renovated/upgradation:

Sl. No.	Description of Infrastructure	Detail of renovation/upgradation proposed	Proposed Area Sq. m	Total Cost per Sq. m	Total cost	Justification
1.	Academic Building Block- 1, P.K.M. College of Education	Installation of Lift facility for the Three Storied Academic Building (Including Civil works and AMC)	2m X 1.5m inner space		20,00,000/-	The “Accessibility Guidelines for the Teacher Education Institutions (TEIs) by NCTE (2022)” in the context of NEP 2020 for Quality and Inclusive Practices in Teacher Education recommends inclusive and Accessible Infrastructure in TEIs. The semi-circular building was constructed in 1996. In order to overcome the architectural barriers ramp facilities were added to make the building barrier free. As the building is constructed without considering the

						differently abled the building is to be upgraded 100% barrier free by providing lift facilities for the differently abled.
2	Hostel for the Disabled/ Transgender of P.K.M. College of Education	Renovation/ Upgradation of Hostel for the Disabled/ Trans genders (Including civil works, toilet facilities upgradation, pathway development etc)			15,00,000/-	The college has multifunctional residential facility within the campus and was utilised for multiple purposes. In order to provide accommodation facilities for the disabled/ the trans genders the existing building has to be renovated and upgraded for the exclusive use of the disabled/ trans genders.
	Total				35,00,000/-	

C. Details of Equipment to be procured

D. Details of workshops/sensitization programmes to be conducted

Sl. No.	Theme	Number of Workshop/ sensitisation programmes to be conducted	Cost per Workshop /sensitisation programmes	Total Cost	Target number of participants	Expected outcome
1.	Gender Sensitivity	TEN (five / year) Five days' workshop on “Gender Sensitivity: Designing Pedagogical Models” for Pre-Service (Student) Teachers (50 participants) of Kannur District.	60,000/-	6,00,000/-	500	The workshop is designed at an advanced level to develop Gender sensitivity among Pre-Service Teachers who are getting trained to be teachers. The pedagogical models designed and developed under the Sensitivity Domain of Learning will be designed and developed and will be practised during their internship and workplace. The direct outcome of the programme is the sensitisation of the student teachers. The secondary level beneficiaries will be the school students
2	STEM Education	FOUR (Two/ year) Add on course (thirty hours/ Three months- Evening or week end course)\ in “STEM Education: Basics” for Pre-Service and In-	1,00,000/-	4,00,000/-	200	The Add- on course will provide basic knowledge in the Concepts of STEM education and training in skills to manage STEM laboratories in Schools. The Atal Tinkering Laboratories (ATLs) under the Atal Innovation Mission of the NITI Ayog, Government of India to nurture an innovative

		service Teachers. (50 participants)				mindset amongst high school students have been established in many of the High schools in Kerala. The schools are lacking trained teachers to maintain and monitor the STEM – ATL laboratories. The Teacher Education Curriculum do not have the provision to train the student teachers. P.K.M. College of Education provides will be able to provide introductory level orientation and training to interested student teachers and school teachers in managing STEM- ATL labs.
	Total			10,00,000/-		

E. Details of remedial classes/bridge classes/self defense classes etc to be conducted

Sl. No.	Detail	Name of class	Number of classes to be conducted	Cost per class	Total Cost	Target number of participants	Expected outcome	Will any certification be provided after such classes
1.	Three months training programme in self-defence and fitness for girls and their mothers (Evening or week end) Includes theory and practical classes in Yoga , aerobic exercises, sports and games, personalised fitness, therapeutic exercises etc.	Self-defence and Fitness training	30 hour classes in each training programme. (includes theory and practical sessions) Two Training Programmes per year. Total FOUR training programmes within the period No Participants for a training Programme =50	Rs 3000/- per class Rs 3000X 30= Rs. 90,000/- per training Programme 4X 90,000= 3,60,000 /-	3,60,000/-	200	The girls and their mothers will build confidence and security feel. The mental health and physical health of the females will improve.	YES
					3,60,000/-			

F. Details of STEM Courses proposed to be added:

G. Details of activities for improving vocationalisation and skilling

H. Details of any other activities

No.	Activity	Purpose	Details	Unit	Cost per unit	Total Cost	Target number of beneficiaries	Expected outcome
1	Short Term Course (Summer Course) on Basic Orientation in STEM Education programme for Higher Secondary School Girl Students	Encouragement of increasing girls participation in STEM courses	Five days programme for Higher Secondary School Girl Students who are preparing for Higher Education. As the STEM Courses are not widespread in Kerala There is an urgent need to orient, motivate and encourage girl students to take STEM courses for their higher studies. The course will incorporate motivational talks, mentoring, Foundations of STEM courses its scope and practical sessions in STEM labs. (The college has proposed for the establishment of STEM laboratory in the proposal for colleges –PM USHA.)	Eight Four courses per year	80,000/-	6,40,000/-	50 X 8 = 400	The course will encourage girls to participate in STEM Courses and their by increase in the enrolment of females in STEM Courses in the district
	Total					6,40,000/-		

I. Year-wise financial estimates for all activities mentioned in A-H above:

No.	Items/activity	Whether new construction or renovation or Equipment or soft component	State Proposal (Rs. In Lakhs)			
			2023-24	2024-25	2025-26	Total
1	Installation of Lift facility for the Three Storied Academic Building	Renovation		20,00,000/-		20,00,000/-
2	Renovation/ Upgradation of Hostel for the Disabled/ Trans genders	Renovation		15,00,000/-		15,00,000/-
3	TEN Five days' workshop on "Gender Sensitivity: Designing Pedagogical Models" for Pre-Service (Student) Teachers	Soft Component		3,00,000/-	3,00,000/-	6,00,000/-
4	FOUR Add on course in "STEM Education: Basics" for Pre-Service and In-service Teachers.	Soft Component		2,00,000/-	2,00,000/-	4,00,000/-
5	FOUR Training programme in self-defence and fitness for girls and their mothers	Soft Component		1,80,000/-	1,80,000/-	3,60,000/-
6	EIGHT Short Term Course (Summer Course) on Basic Orientation in STEM Education programme for Higher Secondary School Girl Students	Soft Component		3,20,000/-	3,20,000/-	6,40,000/-
	Total			45,00,000/-	10,00,000/-	55,00,000/-

Note:

J. Timeline for completion of project::

Phase	Items in A-H above	Whether new construction or renovation or Equipment or soft component	Percentage of completion in the relevant phase	Physical Target (appropriate unit)		Financial Target (as a % of approved cost)	
				Start Date	End Date	Start Date	End Date
I	Installation of Lift facility for the Three Storied Academic Building	Renovation	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	Renovation/ Upgradation of Hostel for the Disabled/ Trans genders	Renovation	100%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	TEN Five days' workshop on "Gender Sensitivity: Designing Pedagogical Models" for Pre-Service (Student) Teachers	Soft Component	50%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	FOUR Add on course in "STEM Education: Basics" for Pre-Service and In-service Teachers.	Soft Component	50%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	FOUR Training programme in self-defence and fitness for girls and their mothers	Soft Component	50%	01-04-2024	31-03-2025	01-04-2024	31-03-2025
	EIGHT Short Term Course (Summer Course) on Basic Orientation in STEM Education programme for Higher Secondary School Girl Students	Soft Component	50%	01-04-2024	31-03-2025	01-04-2024	31-03-2025

Phase	Items in A-H above	Whether new construction or renovation or Equipment or soft component	Percentage of completion in the relevant phase	Physical Target (appropriate unit)		Financial Target (as a % of approved cost)	
				Start Date	End Date	Start Date	End Date
II	TEN Five days' workshop on "Gender Sensitivity: Designing Pedagogical Models" for Pre-Service (Student) Teachers	Soft Component	50%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
.	FOUR Add on course in "STEM Education: Basics" for Pre-Service and In-service Teachers.	Soft Component	50%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
.	FOUR Training programme in self-defence and fitness for girls and their mothers	Soft Component	50%	01-04-2025	31-03-2026	01-04-2025	31-03-2026
.	EIGHT Short Term Course (Summer Course) on Basic Orientation in STEM Education programme for Higher Secondary School Girl Students	Soft Component	50%	01-04-2025	31-03-2026	01-04-2025	31-03-2026

K. The details of the Activities to be undertaken

(Suggestive List of Activities under the component are provided in Chapter VI of the Guidelines)

Activity	How has it been Included in Tables above and reference of Table No. above	Details of how activity to be undertaken	Cost for the activity	Timeline for implementation of the activity
Hostels and adequate toilet facilities for students specially for women/transgenders, specially abled-friendly campus and special facilities	TABLE B	Installation of Lift facility for the Three Storied Academic Building	20,00,000/-	01-04-2024 TO 31-03-2025
	TABLE B	Renovation/ Upgradation of Hostel for the Disabled/ Trans genders	15,00,000/-	01-04-2024 TO 31-03-2025
Encouragement of increasing girls participation in STEM courses	TABLE H	EIGHT Short Term Course (Summer Course) on Basic Orientation in STEM Education programme for Higher Secondary School Girl Students	6,40,000/-	01-04-2024 TO 31-03-2026
Training of girls in self defense / physical education classes	TABLE E	FOUR Training programme in self-defence and fitness for girls and their mothers	3,60,000/-	01-04-2024 TO 31-03-2026
Awareness and sensitisation programmes	TABLE D	TEN Five days' workshop on	6,00,000/-	01-04-2024 TO 31-03-2026

		“Gender Sensitivity: Designing Pedagogical Models” for Pre-Service (Student) Teachers		
	TABLE D	FOUR Add on course in “STEM Education: Basics” for Pre-Service and In-service Teachers.	4,00,000/-	01-04-2024 TO 31-03-2026
Legal support cell/ Anti Harassment Cell/ Awareness Generation Program Cell/ Women Cell/ Anti Ragging Cell etc				
Focus on skilling and vocationalisation Training /Workshops/ Placement, for Females, Transgenders,				
facilitation of women’s access to vocational, technical, professional education and emergent technologies, Curriculum, and pedagogical reforms, Opening of STEM courses and encouragement of increasing girls participation in such courses				
Providing special conveyance facilities for females and transgenders				
Improve social skills, Online classes with Mentorship programs				
Provide guidance and counselling with respect to academic, financial, social, and other matters and to enhance the diversity				

Coaching in communication skills and personality development, and identifying best courses/training with new disciplines/courses/ Counselling on Psychological support/ Counselling for Career guidance				
Any other Activity from the Activities List				

Section 4: Proposed Outcomes:

Targets to be set while submitting proposal and achievements to be submitted Quarterly					
	Indicators	Base Year (Mention year)Figures	Target for 30.03. 2024	Target for 30.03. 2025	Target for 30.03. 2026
Outcome	% Increase in enrolment of Females of the district in STEM courses as compared to base year				
	% Increase in enrolment of Females of the district in HEIs as compared to base year				
	% Increase in enrolment of SCs of the district as compared to base year				
	% Increase in enrolment of STs of the district as compared to base year				
Output	Whether project completed				

Section 5: Other sources of funds:

S. No.	Organisation/ Project/ any other Scheme	Amount	Activities supported
1			
2			
.			
.			
	Total		

1. The State undertakes that there will be no duplication of items of expenditure between the sources of funding

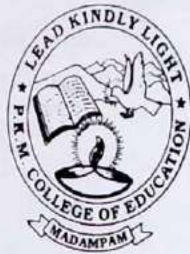
Section 6: Supporting documents

Please **enclose all relevant documents** to support the DPR, architectural blueprints and elevation diagrams, maps of the land signed by the competent authority etc. for the proposal

Section 7: Commitments:

- A. Buildings to be disable friendly
- B. All the recurring expenditure (including salaries) and non-recurring expenditure beyond the scope of the approval under the scheme would be met by the State Government.
- C. Maximum Central Grant will be limited to the State/ UT's funding ratio for the approval under the Scheme.
- D.** State would bear the excess expenditure over and above the Central share

**P. K. M. COLLEGE OF EDUCATION
MADAMPAM
(KANNUR)**



**DETAILED PROJECT REPORT
(Final- Revised)**

Submitted to

**THE KERALA STATE PROJECT DIRECTORATE
RUSA**

On

13-07-2019

CONTENTS

1. Certificate
2. Declaration
3. Executive summary of the project
4. Project summary
5. Chapter 1
 1. Introduction
 2. Motto
 3. Vision
 4. Mission
 5. Aims & objectives
6. Chapter 2
 1. Institutional identity
 2. Academic programmes
7. Chapter 3
 1. Proposal – I : Construction
 2. Proposal – II : Renovation / Upgradation
 3. Proposal – III : Purchasing
8. Appendix
 1. Plan of new construction
 2. Other Estimates
 3. NAAC accreditation certificate

CERTIFICATE

This is to certify that the Detailed Project Report (DPR) submitted to the State Project Directorate, RUSA, Trivandrum, has been prepared by the Government accredited agency, Nirmithi Kendra, Kannur and approved by the Board of Governors and Project Monitoring Unit 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 and in accordance with the allocations as specified for **New Construction (100 lakhs), Renovation (75 lakhs) and Purchase (25 lakhs) with total outlay of 2 Crores.**

Date :13-07-2019

Madampam



Dr. Jessy N C
PRINCIPAL


Dr. JESSY. N.C.
Principal
P.K.M. College of Education
Madampam, Kaithepram P.O.
Kannur - 670 631

INSTITUTIONAL LEVEL STRUCTURE

For the effective implementation of RUSA 2, Board of Governors and Project Monitoring Unit are constituted as follows:

List of Board Of Governors

1. Mar Joseph Pandarasseril :Chairman
(Auxiliary Bishop, Arch Diocese of Kottayam and Manager, PKM College of Education, Madampam)
2. Rev. Fr. Jose Nedungatt
(Pro Manager, PKM College of Education, Madampam)
3. Rev. Fr. Luke Poothrukkayil
(Local Manager, PKM College of Education, Madampam)
4. Dr. Jessie N C
(Principal, PKM College of Education, Madampam)
5. Dr. Prasanth Mathew :RUSA Coordinator
(Asst. Prof. in Physical Science and Vice-Principal)
6. Dr. Rekha K.R
(Associate Prof in English and IQAC Coordinator)
7. Dr. Sinoj Joseph
(Asst. Prof. in Physical Education)
8. Mr. Binoy K
(Headmaster, Maryland H S Madampam and Councillor, Sreekandapuram Municipality)
9. Mr. Sreenath U
(Project Engineer, District Nirmithi Kendra Kannur)
10. Mr. Thomas M. C
(Rtd. Associate Professor, SES College Sreekandapuram and Member, Governing body, P.K.M. College of Education)

DECLARATION

We, the Project Monitoring Committee (PMC) members of RUSA, P K M College of Education 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 college.


Dr. Jessy N.C.
Dr. JESSY. N.C.
Principal
P.K.M. College of Education
Madampam, Kaithapram P.O.
Kannur - 670 631

Project Monitoring Unit

1. Dr. Jessy N C : Chairman
2. Rev. Fr. Jose Nedungatt
(Pro Manager)
3. Dr. Prasanth Mathew : RUSA Coordinator
4. Dr. Rekha K.R
(IQAC Coordinator)
5. Sr Minimol Simon
(Jr. Superintendent)
6. Mr. K J Chacko
(PTA President)
7. Regi P George
(Representative of Students)

Executive Summary of the Project

P K M College of Education, Madampam run by the Knanaya Catholic Community in Kerala is a temple of learning with a difference among the educational institutions. It is located in Kannur district of Kerala and was founded in the year 1995. The college is affiliated to Kannur University and is included under sections 2 (f) and 12B of the University Grants Commission Act. The college is reaccredited in second cycle with A Grade (CGPA: 3.11) by National Assessment and Accreditation Council in the year 2016. The college offers Under Graduate course: B. Ed. in six optional subjects- English, Malayalam, Mathematics, Natural Science, Physical Science, and Social Science. The past decades has already set the path for the realization of the noble vision and caring mission cherished by the institution. In the curricular realm the students of P K M stood head and shoulders for securing top positions in the university.

The prime aim of the college is to impart education and training to the less privileged and marginalized section of the society to pioneer vibrant social mobility in the agrarian community. In the history of Catholic Church of Kerala to name an educational institution after a layman is indeed, an innovative and revolutionary step. At present under the various educational institutions of the Knanaya Community, quality education is imparted to students throughout and outside the state of Kerala. Here is the invariable relevance of P K M College as a training institution, moulding the prospective teachers for the community in particular and society at large.

Our college is having a Governing Body with 12 members, including educational experts, representatives from management, staff and local bodies. The college has a Research Consultancy and Extension cell which monitors research activities among staff and students. We have an Academic Monitoring Council to monitor and modify academic activities of the college. Finance Committee of the college monitors income – expenditure components of the college. Our institution has a well established Alumni association and Parent Teacher Association.

The institution has our own Vision and Mission. Out of the eight faculty members, seven are PhD holders and one faculty member is a Research Guide of Kannur University. Many of our teachers have been the members of the Board of Studies of Kannur University over

P K M College of Education, Madampam

the years. All of them keep abreast with the latest trends by attending training programmes, workshops and conferences in and outside the country.

The present proposal has been prepared as per the guidelines of RUSA. While preparing this proposal we have considered the NCTE norms and the assessment parameters of Quality Council of India (QCI) for Teacher Education Institutions, revised AQAR dimensions of NAAC, recommendations of the Peer Team for NAAC Accreditation.

We have opted for the ratio of 50:37.5:12.5, (Rs 100 Lakhs 75 Lakhs and 25 Lakhs). Proposal is divided into 3 chapters. Chapter 1 is an introduction about the college in which, Motto, Vision, Mission and Objectives of the institution are given. Chapter 2 presents institutional identity and the academic programme of the college. The structure of the Project Monitoring Unit and the responsibilities of the members are also given in this chapter. Chapter 3 explains the details of three proposals – New construction (Proposal 1), Renovation (Proposal 2) and Purchase (Proposal 3). Proposal 1 explains further about construction of the new two storied building with 5 class rooms (Technologically enabled). Proposal 2 describes the renovation of Academic building. Proposal 3 includes purchases for newly constructed technologically enabled class rooms and purchases for the whole college.

Project Summary

This college is opting for the ratio 50.:37.5:12.5 for submitting the proposal

Sl. No	Item	Estimated cost (Rs. in Lakhs)
1	Construction	100
2	Renovation	75
3	Purchase	25
Total		200
		(Rupees two hundred lakhs only)

PART A

Physical and Financial Outlay

I. Creation of New facilities

Item	Norms	Reference
Hostels (separate for Boys & Girls)	N A	
Toilets (Separate for Boys & Girls)	N A	
Laboratories	N A	
Computer centre	N A	
Class rooms (Technologically Enabled Classrooms)	Yes	Page No: 14
Canteen /cafeteria	N A	
Common room for students	N A	

II. Renovation / Upgradation of Existing Facilities

Item	Norms	Reference
Academic Building	Yes	Page No: 16
Administrative Building	NA	
Campus Development	NA	
Hostels	N A	
Toilets	N A	
Library	NA	
Classrooms	N A	
Auditorium	NA	
Canteen /cafeteria	N A	
Laboratory	N A	
Computer centre	N A	

III. New Equipments / Facilities

Item	Norms	
Sports Facility	N A	
Computers	Yes	Page No: 17
Laboratory	NA	
Books/Journals	No	
E Resources	NA	

P K M College of Education, Madampam

PART – B
Baseline Data

	Indicator	Unit	College 1
Name of the college			P K M College of Education, Madampam
Year of Establishment		Year	1995
Category (Govt./ Aided/ Autonomous)		Category	Aided
NAAC Accreditation (if none, status of application)		Grade	A CGPA : 3.11
Year of Accreditation & Cycle			2016, Second Cycle
Whether included under 12 B of UGC Act		Yes	Yes
Area of the proposed college fall Under	Please specify (Tier 1/Tier21, Tier -3)	(Category)	Tier -3
Number of students enrolled	Number / Total	Number	100
SC	Number / Total	Ratio	14/100= 14%
ST	Number / Total	Ratio	2/100=2%
OBC	Number / Total	Ratio	19/100=19%
Women students	Number / Total	Ratio	93/100=93%
Special Attributes, if any			- College is situated in a backward Area. 93 % of students are women students

P K M College of Education, Madampam

Physical & Financial Details			
College 1			
Item	New construction/ Renovation/Purchase Please Specify	Physical value (Area in Sq mts)	Financial Value (Rs) in lakhs
Hostels	-	-	-
Toilets	-	-	-
Laboratory	-	-	-
Computer centre	-	-	-
Class rooms	New construction	542.13	100
Common room for Students	-	-	-
Canteen / cafeteria	-	-	-
Academic building	Renovation		75
Campus development			
Laboratories			
Administrative building			
Auditorium			
Library			
Sports facility			
Purchase of lab equipments			
Purchase for technologically enabled classrooms in new building	Purchase		25
Books/Journals			
E – resources	-		
Total			200 lakhs

Consolidated Table of infrastructure Grant to colleges

Item	Renovati on/New Construct ion/ Purchase	Existing Infrastruc Ture	Proposed Infrastru cture	Financi als (Rs)	Justification
New class rooms (Technologically Enabled)	New construction	7 Class Rooms + 2 large classroom	5 Class Room cum methodology laboratories	100 lakhs	Our college had only one batch of students when it was started in 1995. In 2015, two year B.Ed. curriculum was introduced, so that every year we have two batches of students at the same time. Our college has 6 optional subjects consisting of English, Malayalam, Mathematics, Physical Science, Natural Science and Social Science. Apart from this there are some core papers, elective courses, EPC courses and Physical Education in which the whole batch of students should attend the classes together. In order to fulfil the norms of NCTE, NAAC and TeachR (QCI) we have to record and upload videos of classes of student teachers and teachers and other digital documents. Also we should accommodate school students for demonstration and criticism classes. So

P K M College of Education, Madampam

					in this new curriculum, we need fully fledged technology enabled spacious 12 optional class rooms cum methodology laboratories (6+6) and 2 large classrooms. At present we have only 7 classroom cum methodology laboratories and 2 large classrooms. Hence we need 5 new Technologically enabled classroom cum methodology laboratories with all facilities.
Toilets	-	-	-	-	-
Common room for girls & boys	-	-	-	-	-
Academic buildings	Renovation			75 lakhs	The academic building of our college comprises of staffroom, six classroom cum methodology laboratories, two large rooms and one multipurpose classroom and laboratories. The academic building is spread over three floors. The 23 year old building cannot withstand the connected electric load required for a full-fledged technologically enabled educational institution. So rewiring with addition of eco electrical fittings is an urgent need for the entire building. Floor tiling is another essential requirement for

P K M College of Education, Madampam

					the academic building as much damage is visible in this area and urgent betterment is required. The present asbestos roofing and the gypsum sealing are not in a good condition. So the renovation of the roofing is inevitable.
Auditorium	-	-	-	-	
Canteen building	-	-	-	-	
Laboratory	-	-	-	-	
Library					
Campus development					
Administrative building					
Computers and other equipments and facilities (for Technologically Enabled Class Room cum methodology labs)	Purchase			25 Lakhs	To purchase facilities such as digital facilities, seating facilities, health and hygiene facilities, storage facilities etc. essential for furnishing the technologically enabled classroom cum methodology laboratories in the new construction
Books/journals					
E resources					

PART C

Other information

Sl. No	Item	Details
1	Address of the Institution	P K M College of Education, Madampam, Kaithapram P O, Kannur -670631
2	Place/ Locality	MADAMPAM
3	District	KANNUR
4	Taluk	Thaliparamba
5	Village	Sreekandapuram
6	Block	Irikkur
7	Municipality	Sreekandapuram
8	Assembly constituency	Irikkur
9	Lok – Sabha Constituency	Kannur
10	College website	www.pkmcollege.org
11	Total no of UG self financing courses	Nil
12	Total no of P G self financing courses	Nil
13	Name & Address of the Manager (with mobile No & Email Address)	Mar.Joseph Pandarasseil, Sreepuram Bishop's House, Pallikunnu P O,Kannur-670004 Mob: 9447598242 E.mail: marpandarasseril@gmail.com
14	Type of management (corporate/ single/trust/co operative others)	Corporate
15	Total land area of the college	5 Acres

Chapter - I

Prof. Kandoth Memorial College of Education has marked a noble legacy in the educational scenario of North Malabar. This temple of learning is dedicated to the Sacred Heart of Jesus and named after Prof. Kandoth, who was an educational visionary, social reformer and a zealous missionary. The college is situated near Thumpeni shrine, Madampam on the eastern side of the Taliparamba Iritty state highway under the jurisdiction of Sreekandapuram Municipality, Irikkur Block, Kannur District, Kerala.

The college was established in 1995 as a self financing institution and was converted into an aided college in 1997. It is affiliated to Kannur University and is recognized by NCTE. The college is reaccredited by NAAC with A grade in 2016 with CGPA 3.11 (4 point scale). The college was started in a remote area with the pious intention of providing high quality teacher education to the common people and thus provide qualified and skilful human resource in the field of education for the betterment and development of the society.

The College started with one year B.Ed course (six optional subjects) in 1995. In 2015 two year B.Ed curriculum was established. There are Core Courses, Pedagogic courses, EPC (Enhancing Professional Competency) courses and Elective courses, Physical Education etc. We have conducted several UGC, KSCSTE and other agencies sponsored State level, National and International, programmes. Several projects like Urjakiran, Environment Awareness Programmes, Peace Forum activities, Electoral Literacy Club programmes are undertaken in the college. Different clubs namely Tourism Club, Debate Club, Literary Club, Bhoomithrasena, Mathematics Club and Women Cell are actively conducting several programmes in our college for our students and the local community. Several curricular and co-curricular activities for the students to develop their ASK (Attitude, Skill and Knowledge) are also organized.

We adopt ICT enabled approach for effective implementation of the curriculum. For instance, every department is equipped with computers, LCD projectors, Smart Boards etc. which are regularly used for effective communication. The Institution has a dynamic research committee which takes special initiative to develop institutional research aptitude in its beneficiaries.

At present the college has faculty strength of 8, including 7 permanent and 1 guest faculty. 7 faculty members are Ph.D holders. To support the administrative and academic activities, we have 14 non-teaching staff. The college has got library, different laboratories. (computer lab,

technology lab, psychology lab, language lab, science lab), Net-Resource Centre etc to enhance the quality of teaching- learning process

1. MOTTO

PKM College of Education has a very clear motto, "Lead Kindly Light". The motto reflects the mission of the institution. Brightly burning lamp spells out the darkness of ignorance and illiteracy and radiate the glow of enlightenment.

2. VISION

Excellence and committed service in every realm of teaching endeavour. To attain this vision College consciously functions and inspires staff and students to attain excellence in teaching profession.

3. MISSION

Our mission is "*to nurture the holistic development of prospective teachers for a just and humane society*". We provide different experiences to the student teachers in different perspectives to achieve this mission for our future.

4. AIMS and OBJECTIVES

- To equip the teachers to develop and practice innovative methods and strategies in teaching learning process.
- To develop into a centre of excellence in teacher education for preparing quality teachers.
- To promote learning and research extension activities.
- To develop intellectually competent, morally upright, psychologically integrated and socially committed teachers for service in the emerging global scenario of education.
- To acquire effective communication skills and leadership qualities.
- To extend activities to other co-operating schools, colleges and society.
- To ensure 100 percent results.
- To equip and ensure students placements and higher studies.
- To equip students to attend competitive exams like KTET, SET, NET etc.
- To develop values like trust Love of God, moral uprightness, love of fellow beings social responsibility and pursuit of excellence.

CHAPTER - 2

1. INSTITUTIONAL IDENTITY AND ACADEMIC PROGRAMME

The college details regarding

Sl. No	Particulars	Details
1	Name of the college	PKM College of Education, Madampam.
2	Year of Establishment	1995
3	Category(govt/aided/autonomous)	Aided
4	NAAC Accreditation (if none, status of application)	Reaccredited with A Grade, CGPA: 3.11
5	Year of Accreditation and cycle	2016, Second Cycle
6	Whether included under 12B of UGC Act	Yes
7	Area of college full under	Tier-3
8	Number of students enrolled	100
9	SC	14/100 =14%
10	ST	2/100 =2%
11	OBC	19/100 =19%
12	Women Students	93/100 =93%
13	Special Attributes, if any ;	1.College is situated in a backward area 2.More than 93 % are women students

Academic Programme

Programme level	Name of the course	Duration in Years	Sanctioned strength
Undergraduate	B. Ed	2	50 / year

Chapter 3

PROPOSALS

This college is opting for the ratio of 50: 37.5: 12.5 for submitting the proposal

Sl. No	Item	Estimated cost (Rs in Lakhs)
1	Construction	100
2	Renovation	75
3	Purchase	25
Total		200 (Rupees two hundred lakhs only)

PROPOSAL - 1: CONSTRUCTION

In this section we put forward the proposal for a new construction in the campus. Our college had only one batch of students when it was started in 1995. In 2015, two year B.Ed. curriculum was introduced, so that every year we have two batches of students at the same time, with 6 optional subjects. So we need more class room cum methodology laboratories to accommodate both batches for the proper functioning. Hence expansion of the infrastructure becomes inevitable. Justification and details of the planned new construction is discussed below.

Class Rooms (Technologically Enabled)

The proposal of the new building includes 5 classrooms, each with 67.5 sq.m area and its amenities. The total area of the new building is 542.13 sq.m. The building plan is designed considering the landscape. The total estimated cost is 1 crore.

P K M College of Education, Madampam

Table1.0: Summary of New Construction Proposal

CONSTRUCTION OF ACADEMIC BUILDING (FIVE CLASSROOMS)	
SUMMARY OF ESTIMATE	
DESCRIPTION	AMOUNT
TOTAL ESTIMATE AMOUNT FOR CIVIL WORKS	77,70,302.00
TOTAL ESTIMATE AMOUNT FOR ELECTRIFICATION WORK	2,40,000.00
TOTAL	80,10,302.00
ADD CENTAGE CHARGE @ 6%	4,80,618.12
ADD GST WORKS @18%	14,41,854.36
ADD GST FOR CENTAGE CHARGES @12%	57,674.17
TOTAL	99,90,448.65
UNFORSEEN ITEMS IF ANY	9,551.35
GRAND TOTAL	1,00,00,000.00
RUPEES ONE CRORE	

PROPOSAL -2: RENOVATION / UPGRADATION OF EXISTING FACILITIES/BUILDINGS

Based on the needs of the college, renovation / upgradation of the existing facilities/buildings include the renovation of academic building.

2. Academic Building Renovation/Upgradation

The academic building of our college comprises of staff room, six classroom cum method lab for the six different subject groups, two large rooms and one multipurpose classroom for professional competence enhancing activities and laboratories. The academic building is spread over three floors. The specific renovations/upgradations urgently needed are estimated and presented in table 2.

Table 2.0 : Academic building renovation/upgradation proposal

RENOVATION AND UPGRADATION OF ACADEMIC BUILDING	
SUMMARY OF ESTIMATE	
DESCRIPTION	AMOUNT
TOTAL ESTIMATE AMOUNT FOR CIVIL WORKS	37,59,705.00
TOTAL ESTIMATE AMOUNT FOR ELECTRIFICATION WORK	22,50,000.00
TOTAL	60,09,705.00
ADD CENTAGE CHARGE @ 6%	3,60,582.30
ADD GST FOR WORKS @18%	10,81,746.90
ADD GST FOR CENTAGE CHARGES @12%	43,269.88
TOTAL	74,95,304.08
UNFORESEEN ITEMS IF ANY	4,696.92
GRAND TOTAL	75,00,000.00
RUPEES SEVENTY FIVE LAKHS	

PROPOSAL -3: NEW EQUIPMENTS/FACILITIES

Purchase for the college is focused mainly to the facilities (in accordance with NCTE recommendations for teacher education institutions and quality enhancement parameters of NAAC) essential for fully furnishing the technologically enabled classrooms in the new construction and the purchases for the whole institution.

As a teacher education college, the classrooms act as class cum methodology laboratory. So each classroom has to be furnished for the pedagogical training. The fully furnished technologically enabled classrooms in a college of education has to be equipped with *digital facilities* such as provisions for recording classes of student teachers and teacher educators (audio, photos and videos) in and outside the classrooms and even while they do the practice teaching at schools. The video/audio/photos recorded have to be edited, filed and to be published and uploaded to the apex bodies. So each classroom cum methodology lab must have well equipped computers, internet connectivity, smart TV, Camera and printing/copying/scanning facilities both colour and black and white. In the learner centered classrooms, for individual and group works to promote better learning different worksheets will have to be provided in print.

The seating facilities in a teacher education college have to be equipped with facilities for seating students from schools for demonstration/criticism/microteaching classes.

The accreditation agencies expect the institutions to have office /learning management systems /softwares for digital documentation process.

Considering the essential needs of the teacher education programme and the regional context of the college with lack of provisions to access the resources for the students the Board of Governors and the Project Monitoring Unit of the college proposed the following purchases for ensuring the quality of the institution and the programme.

Table 3.1. Details of the proposals for the new equipments and facilities

No		Details	Quantity	Amount	Justification
	Purchase for technologically enabled classrooms in new building (5 classrooms)				
I.	Digital facilities	Laptop (i7, 8GB, 2TB, Windows)	1 @90,000/-	90,000/-	For editing videos of classes taken by student teachers in their methodology classes for uploading

P K M College of Education, Madampam

		Laptop (i5, 8GB, ITB, Windows)	4 @60,000/-	2,40,000/-	For teaching learning process
		Smart TV (49" Full HD LED Smart TV with accessories)	5 @65,000/-	3,25,000/-	Teaching learning process
		IP+HD CCTV Camera and its accessories	5 classrooms and its premises	1,40,000/-	For audio and Video capturing of classes and security
		DSLR Camera	2 @90,000/-	1,80,000/-	For recording classes of student teachers during their practice teaching in cooperative schools
	Seating facilities	Wooden tables and chairs for students and teachers	5 classes @1,25,000/-	6,25,000/-	Seating for teacher educator, student teachers and school students
	A3 Laser Colour Printer		1	1,75,000/-	For documenting the different modes of academic works
	A4 WIFI Printer		1	15,000/-	For documenting the different modes of academic works
	Spiral Binding Machine		1	90,00,00/-	For documenting the different modes of academic works
	Storage facility	Steel Almarahs	5 @12000/-	60,000/-	Digital storage and Document storage
	Health and Hygiene facilities	Napkin wending machine and incinerator.	1 each	50,000/-	
Purchase for the whole college					
	Office cum Learning Management System-Software			4,00,000/-	For digitalising office and academic process.
	Intercom (PABX system)			1,10,000/-	Easy communication process with different wings
				25,00,000/-	
TWENTY FIVE LAKHS					



KANNUR DISTRICT
NIRMITHI KENDRA

THALASSERY - PIN 670101

A Building Centre for cost Effective Building Materials & Techniques
(Sponsored by HUDCO - Govt .of India & Govt of Kerala)

Phone :0490-2342729

CONSTRUCTION OF BUILDING FOR	
CONSTRUCTION OF CLASS ROOM BUILDING AND RENOVATION OF ACADEMIC BUILDING FOR P K M COLLEGE OF EDUCATION MADAMBAM , SREEKANDAPURAM, KANNUR DISTRICT UNDER THE STATE PROJECT DIRECTORATE RUSA	
SUMMERY OF ESTIMATE	
DESCRIPTION	AMOUNT
CONSTRUCTION OF CLASS ROOM BUILDING	₹ 1,00,00,000.00
RENOVATION OF ACADEMIC BUILDING	₹ 75,00,000.00
TOTAL	₹ 1,75,00,000.00

RUPEES ONE CRORE SEVENTY FIVE LAKHS


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR

REPORT

NAME OF WORK : Construction of Academic Building renovation & up gradation of vital infrastructure facilities of institution of P.K.M College of Education , Madambam, Sreekandapuram , Kannur District.

WORK PROPOSED BY: The State Project Directorate: RUSA.

This project is prepared to the infrastructure development of the institution. Following works are proposed.

- I. Construction of academic building.
- II. Renovation and up gradation of infrastructure facilities of existing building.

CONSTRUCTION OF ACADEMIC BUILDING

Proposed building consists of five class rooms. One class room proposed to construct the low laying area adjacent to the existing building. Four class rooms are proposed to start from the first floor of the above class room and continue to the existing ground, lying approx. 4 m above. Two toilets are also included in the plan. The total plinth area of the new building is 542.13Sq.m.

Framed building with R C C column footing, column, beam and slab proposed for the construction. Laterite masonry wall, cement plastering, vitrified floor tiles etc included. Powder coated steel door and windows with shutters, painting with emulsion paint, wall tiles for tiles are proposed. Staircase room with light weight roofing sheet suggested.

Detailed estimate included for electrification, plumbing and sanitary, etc works.

ESTIMATE AMOUNT - 1,00,00,000/- (Rupees One crore)

RENOVATION AND UP GRADATION OF INFRASTRUCTURE FACILITIES OF EXISTING BUILDING.

Following Renovation works proposed for the existing building

- Convert Physical Education Room to Staff room
 - Staff room with 10 cabin separate
 - Staff room partition design.
- Toilet unit to store room.
 - Demolition of toilet walls and to convert as store room.
- Science lab to class room
 - Demolition of partition wall in Science Lab and arranging shelves and change to class room.
- Door frame & Rack repair.
- Ladies toilet renovation.
 - Demolition of wall, floor tile, closet, door, tile laying.
- Waiting room toilet demolition.
 - Toilet in waiting room to be demolished.
- Office room reconstructing
 - Toilet in office room to be demolished. Aluminium partition work proposed for workstation.
 - Alteration of door at waiting area
- Office 2 Toilet renovation.
 - Tiles, door and closet replacing.
- Second floor general hall portion.
 - Provide Aluminium partition upto ht of 2.4m
- Psychology room to project room.
 - To convert it proposed aluminium partition work up to.

→ Seminar hall renovation.

Renovation of stage proposed.

Replacing Sliding window ,to open able window.

→ Demolition of partition wall in maths lab and reconstruction with cement block masonry.

→ Toilet renovation.

→ Providing toilet to library hall

→ Setting up of Barrier free toilet.

- 2 toilet for men & women.
- Ramp

→ Tile laying to the class rooms , passage etc

→ Damaged asbestos roofing sheet to be replaced with G I coated roofing sheet with providing additional purlins.

→ Existing damaged false ceiling to be replaced.

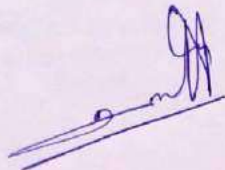
→ Providing foot over bridge connecting new building.

ESTIMATE AMOUNT Rs. 75,00,000/- (Rupees Seventy five Lakhs)

Grand Total estimate amount 1,75,00,000/-

(Rupees One crore seventy five lakhs)

Estimate prepared with Kerala P W D Price software. Rates taken from Prevailing schedule of rates (DSR 2016) with Cost index of Kannur (32.04%) and without contractors profit. Separate summery sheet attached showing summery of estimates, adding centage charges (6%), G S T for works (18%) , G S T for centage charge (12%).



PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR



SITE ENGINEER
NIRMITHI KENDRA
KANNUR



**KANNUR DISTRICT
NIRMITHI KENDRA**

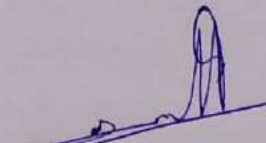
THALASSERY - PIN 670101

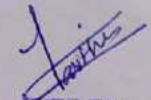
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Phone :0490-2342729

CONSTRUCTION OF BUILDING FOR	
CONSTRUCTION OF ACADEMIC BUILDING FOR P K M COLLEGE OF EDUCATION MADAMBAM , SREEKANDAPURAM, KANNUR DISTRICT UNDER THE STATE PROJECT DIRECTORATE RUSA	
SUMMARY OF ESTIMATE	
DESCRIPTION	AMOUNT
TOTAL ESTIMATE AMOUNT FOR CIVIL WORKS	₹ 77,70,302.00
TOTAL ESTIMATE AMOUNT FOR ELECTRIFICATION WORK	₹ 2,40,000.00
TOTAL	₹ 80,10,302.00
ADD CENTAGE CHARGE @ 6%	₹ 4,80,618.12
ADD G S T FOR WORKS @ 18 %	₹ 14,41,854.36
ADD G S T FOR CENTAGE CHARGES @12%	₹ 57,674.17
TOTAL	₹ 99,90,448.65
UNFORESEEN ITEMS IF ANY	₹ 9,551.35
GRAND TOTAL	₹ 1,00,00,000.00

RUPEES ONE CRORE


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR

PRICE

EST NO:2019/7866

**CONSTRUCTION OF CLASS ROOM BUILDING FOR P K M COLLAGE OF
EDUCATION MADAMBAM ,SREEKANDAPURAM ,KANNUR DISTRICT UNDER
THE STATE PROJECT DIRECTORATERUSA**

Detailed Estimate

(Dsor year: 2016, Cost Index Applied for this estimate is 32.04%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 BUILDING PROPER								
1	2.7.1 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. Ordinary rock							
	Footing							
	Column footing	25	1.800	1.500	1.500		101.251	
	verandah column	12	1.500	1.500	1.500		40.500	
	Total Quantity						141.751 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						141.751 cum	
	Say 141.751 cum @ Rs 272.84 / cum						Rs 38675.34	
2	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							
	FOUNDATION							
	horizontal wall	24	2.200	0.600	0.600		19.009	
	do	1	1.700	0.600	0.600		0.612	
	vertical wall	10	3.380	0.600	0.600		12.168	
	do	1	0.900	0.600	0.600		0.324	
	do	4	1.700	0.600	0.600		2.448	
	toilet partition	1	2.800	0.600	0.600		1.008	
	do	2	3.000	0.600	0.600		2.160	
	do	1	0.800	0.600	0.600		0.288	
	Steps	1	6.650	0.600	0.250		0.998	
	do	2	6.000	0.600	0.250		1.800	
	do	1	4.500	0.600	0.250		0.675	
	Retaining wall	1	10.000	1.200	0.900		10.800	

		Total Quantity					52.290 cum		
		Total Deducted Quantity					0.000 cum		
		Net Total Quantity					52.290 cum		
		Say 52.290 cum @ Rs 340.48 / cum					Rs 17803.70		
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)								
	Rooms								
	class room	1	9.000	7.500	0.080		5.400		
	Stair room	1	3.000	4.300	0.080		1.032		
	toilet	2	1.200	1.500	0.080		0.288		
	passage	1	1.400	3.200	0.080		0.359		
	Verandah	1	12.200	1.200	0.080		1.172		
	ramp	1	4.000	2.150	0.080		0.688		
	footing								
	column footing	25	1.800	1.500	0.100		6.750		
	do	12	1.500	1.500	0.100		2.700		
	Other Engineering Organisations					Total Quantity			18.389 cum
	PRICE					Total Deducted Quantity			0.000 cum
						Net Total Quantity			18.389 cum
	Say 18.389 cum @ Rs 5527.32 / cum					Rs 101641.89			
4	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								
	footing class room	26	1.800	1.500	0.200		14.041		
	footing veranda	12	1.500	1.500	0.200		5.400		
	haunge	26		1.0185	0.700		18.537		
	do	12		0.928	0.500		5.569		
	neck column	25	0.300	0.550	0.350		1.444		
	do	12	0.300	0.300	0.350		0.378		
						Total Quantity			45.369 cum
						Total Deducted Quantity			0.000 cum

					Net Total Quantity	45.369 cum	
					Say 45.369 cum @ Rs 7671.53 / cum		Rs 348049.64
5	5.2.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand 3 graded stone aggregate 20 mm nominal size)					
		Ground floor					
	Column	11	0.500	0.250	4.000	5.500	
		5	0.250	0.250	4.000	1.250	
					Total Quantity	6.750 cum	
					Total Deducted Quantity	0.000 cum	
					Net Total Quantity	6.750 cum	
					Say 6.750 cum @ Rs 8819.97 / cum		Rs 59534.80
6	5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).					
					Beams		
	vertical wall	6	3.200	0.250	0.300	1.440	
	do	2	3.200	0.250	0.600	0.960	
	vertical wall 2	2	2.150	0.250	0.200	0.215	
	do	1	2.220	0.250	0.200	0.112	
	do	1	1.860	0.250	0.200	0.094	
	horizontal wall 1	6	4.380	0.250	0.400	2.628	
	do	3	3.000	0.250	0.300	0.675	
	do	1	2.940	0.250	0.300	0.221	
					Plinth beam		
	Horizontal beam	4	4.380	0.250	0.400	1.752	
	do	2	3.000	0.250	0.300	0.450	
	do	3	2.940	0.250	0.300	0.662	
	vertical beam	6	3.200	0.250	0.300	1.440	
	do	2	2.150	0.250	0.300	0.323	
					staircase		

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	waist slab	2	4.090	1.500	0.120		1.473	
	do	1	4.090	2.400	0.120		1.178	
	landing	1	3.400	1.700	0.120		0.694	
	steps	12	1.500	0.300	0.150		0.810	
	step 2	6	2.400	0.300	0.150		0.648	
	lintels							
	over walls horizontal	4	4.380	0.200	0.150		0.526	
	vertical wall	6	3.200	0.200	0.150		0.577	
	Sunshade							
	sunshade front	1	12.880	0.750	0.100		0.967	
	side	1	11.250	0.750	0.100		0.844	
	do	1	8.900	0.750	0.100		0.668	
	ribs	4	3.200	0.200	0.150		0.385	
	do	1	2.800	0.200	0.150		0.084	
	slab							
	class room	1	13.000	13.500	0.120		21.060	
	Deductions							
	staircase	1	3.000	5.100	0.120		-1.835	
	do	1	2.400	3.600	0.120		-1.036	
	Belt for retaining wall							
	Belt	1	16.000	0.750	0.200		2.401	
	do	1	16.000	0.600	0.200		1.920	
	Total Quantity						45.207 cum	
	Total Deducted Quantity						-2.871 cum	
	Net Total Quantity						42.336 cum	
	Say 42.336 cum @ Rs 9122.37 / cum						Rs 386204.66	
7	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							
	R C C for column footing item No 4	1	45.369			80.0	3629.520	
	do for columns item No 5	1	6.750			100.0	675.000	
	do for beam slab etc	1	42.336			90.0	3810.240	

		Total Quantity				8114.760 kilogram
		Total Deducted Quantity				0.000 kilogram
		Net Total Quantity				8114.760 kilogram
		Say 8114.760 kilogram @ Rs 69.86 / kilogram				Rs 566897.13
8	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs landings, balconies and access platform					
	Sunshade					
	sunshade front	1	12.880	0.750		9.660
	side	1	11.250	0.750		8.438
	do	1	8.900	0.750		6.676
	ribs	4	3.200	0.200		2.561
	do	1	2.800	0.200		0.560
	slab					
	class room	1	13.000	13.500		175.500
	Deductions					
	staircase	1	3.000	5.100		-15.299
	do	1	2.400	3.600		-8.640
	Total Quantity				203.395 sqm	
	Total Deducted Quantity				-23.939 sqm	
	Net Total Quantity				179.456 sqm	
	Say 179.456 sqm @ Rs 521.24 / sqm				Rs 93539.65	
9	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams girders bressumers and cantilevers					
	Beams					
	vertical wall	6	3.200	0.850		16.320
	do	2	3.200	1.450		9.280
	vertical wall 2	2	2.150	0.650		2.795
	do	1	2.220	0.650		1.444
	do	1	1.860	0.650		1.209
	horizontal wall 1	6	4.380	1.050		27.594
	do	3	3.000	0.850		7.650
	do	1	2.940	0.850		2.499

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	Plinth beam							
	Hporizontal beam	4	4.380	1.050			18.396	
	do	2	3.000	0.850			5.100	
	do	3	2.940	0.850			7.497	
	vertical beam	6	3.200	0.850			16.320	
	do	2	2.150	0.850			3.655	
	lintels							
	over walls horizontal	4	4.380	0.500			8.760	
	vertical wall	6	3.200	0.500			9.601	
	Belt for retaining wall							
	Belt	1	16.000	1.150			18.400	
	do	1	16.000	1.000			16.000	
	Total Quantity						172.520 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						172.520 sqm	
	Say 172.520 sqm @ Rs 423.24 / sqm						Rs 73017.36	
10	5.9.6 Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts							
	Ground floor							
	Column	11	1.500	4.000			66.000	
		5	1.000	4.000			20.000	
	Total Quantity						86.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						86.000 sqm	
	Say 86.000 sqm @ Rs 577.46 / sqm						Rs 49661.56	
11	5.9.7 Centering and shuttering including strutting, etc. and removal of form for: Stairs, (excluding landings) except spiral - stair cases)							
	staircase							
	waist slab	2	4.090	1.500			12.270	
	do	1	4.090	2.400			9.816	
	landing	1	3.400	1.700			5.780	
	steps	24	1.500	0.150			5.400	

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	step 2	12	2.400	0.150	0.150		0.648	
	Total Quantity						33.914 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						33.914 sqm	
	Say 33.914 sqm @ Rs 517.60 / sqm						Rs 17553.89	
12	od56048/2019_2020 Laterate masonry with neatly dressed laterate stone of size 35x20x20cm or nearest size in cement mortar 1:6 for foundation and basement including all cost of materials, labour charges etc.							
	FOUNDATION							
	vertical wall	14	3.200	0.600	0.600		16.128	
	verandah	5	2.850	0.600	0.600		5.130	
	do	1	2.150	0.600	0.600		0.774	
	horizontal wall	10	4.380	0.600	0.600		15.768	
	do	1	0.900	0.600	0.600		0.324	
	do	3	2.950	0.600	0.600		3.186	
	Toilet	2	3.000	0.600	0.600		2.160	
	do	1	2.800	0.600	0.600		1.008	
	do	1	0.900	0.600	0.600		0.324	
	Steps	1	6.650	0.600	0.250		0.998	
	do	2	6.000	0.600	0.250		1.800	
	do	1	4.500	0.600	0.250		0.675	
	Basement							
	vertical wall	18	3.200	0.350	0.150		3.024	
	do	7	3.080	0.350	0.150		1.132	
	do	1	2.250	0.350	0.150		0.119	
	do	1	0.900	0.350	0.150		0.048	
	horizontal wall	2	3.000	0.350	0.150		0.315	
	do	3	2.950	0.350	0.150		0.465	
	toilet	2	3.000	0.350	0.150		0.315	
	do	1	2.800	0.350	0.150		0.147	
	do	1	0.800	0.350	0.150		0.042	
	Steps	1	6.650	0.600	0.150		0.599	
	do	1	6.650	0.300	0.150		0.300	

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	do	2	6.000	0.600	0.150		1.080	
	do	2	6.000	0.300	0.150		0.540	
	do	1	4.500	0.600	0.150		0.405	
	do	1	4.500	0.300	0.150		0.203	
	Total Quantity						57.009 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						57.009 cum	
	Say 57.009 cum @ Rs 4701.99 / cum						Rs 268055.75	
13	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.							
	Rooms							
	class room	3	9.000	7.500	0.370		74.926	
	do	1	9.000	3.500	0.370		11.655	
	stair room	1	3.000	4.300	0.370		4.773	
	toilet	2	1.200	1.500	0.370		1.332	
	passage	1	1.400	3.200	0.370		1.658	
	verandah	1	18.500	2.150	0.370		14.717	
	ramp	1	4.000	1.700	0.190		1.292	
	Total Quantity						110.353 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						110.353 cum	
	Say 110.353 cum @ Rs 155.21 / cum						Rs 17127.89	
14	od56050/2019_2020 Laterate masonry with neatly dressed laterate stone of size 35x20x20cm 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.(Derived From D S R 50.6.7.2)							
	Super structure G F							
	horizontal wall	4	4.380	0.200	3.700		12.965	
	do	3	2.950	0.200	3.700		6.550	
	do	3	3.000	0.200	3.700		6.661	
	do	1	3.000	0.200	3.700		2.221	
	toilet	2	3.000	0.200	1.800		2.161	
	do	1	1.500	0.200	1.800		0.541	

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	vertical wall	6	3.200	0.200	3.600		13.825	
	toilet	1	3.000	0.200	1.800		1.081	
	Deductions							
	Door D	2	1.200	0.200	2.250		-1.080	
	Door D2	3	0.900	0.200	2.100		-1.134	
	Window W3	6	1.650	0.200	1.500		-2.969	
	Ventilator V	4	0.600	0.200	0.450		-0.216	
	verandah opening	3	2.950	0.200	2.700		-4.779	
	do	1	3.000	0.200	2.700		-1.620	
	do	1	2.400	0.200	2.700		-1.296	
	Total Quantity						46.005 cum	
	Total Deducted Quantity						-13.094 cum	
	Net Total Quantity						32.911 cum	
	Say 32.911 cum @ Rs 5163.84 / cum						Rs 169947.14	
15	50.13.1							
	9 mm cement plastering of mix : 1:3 (1 cement : 3 fine sand) including all cost of materials, labour charges etc complete							
	rooms							
	class room	1	9.000	7.500			67.500	
	stair bottum	2	4.090	1.500			12.270	
	do	1	4.090	2.400			9.816	
	landing	1	3.000	1.500			4.500	
	verandah	1	12.400	1.200			14.880	
	beam							
	vertical wall	10*2	7.690	0.600			92.280	
	horizontal wall 1	15*2	2.880	0.300			25.920	
		18*2	2.150	0.250			19.350	
	Sunshade							
	sunshade front	1	12.830	0.900			11.547	
	do side	1	7.900	0.900			7.110	
	do	1	11.050	0.900			9.945	
	Total Quantity						275.118 sqm	
	Total Deducted Quantity						0.000 sqm	

	Net Total Quantity						275.118 sqm
	Say 275.118 sqm @ Rs 199.46 / sqm						Rs 54875.04
16	13.4.1 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)						
	wall						
	class room	2	7.500	4.000			60.000
	do	2	9.000	4.000			72.000
	stair room horizontal	1	7.500	4.000			30.000
	verandah	1	24.930	4.000			99.720
	toilet	2	5.400	1.800			19.440
	do	1	8.800	1.800			15.841
	column inner 2 side(50*25)	2	0.300	4.000			2.400
	column(.25*.25)	5	1.000	2.400			12.000
	outer wall	1	43.790	4.500			197.055
	Deductions						
	Door D1	2	1.200		2.250		-5.399
	Door D2	3	0.900		2.100		-5.670
	Window W3	6	1.650		1.500		-14.849
	ventilator V	4	0.600		0.450		-1.080
	verandah opening	3	2.950		2.400		-21.240
	do	1	3.000		2.400		-7.199
	do	1	2.400		2.400		-5.760
	Total Quantity						508.456 sqm
	Total Deducted Quantity						-61.197 sqm
	Net Total Quantity						447.259 sqm
	Say 447.259 sqm @ Rs 223.22 / sqm						Rs 99837.15
17	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, 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. Size of Tile 600 x 600 mm.						
	rooms						
	class room	1	9.200	7.500			69.000
	stair room	1	3.200	4.700			15.041

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	verandah	1	12.200	1.400			17.080	
	steps and ramp							
	tread	24	1.500	0.300			10.800	
	do	12	2.400	0.300			8.640	
	rise	24	1.500		0.150		5.400	
	do	12	2.400		0.150		4.320	
	landing	1	3.000	1.500			4.500	
	steps	1	6.000	0.900			5.400	
	Total Quantity						140.181 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						140.181 sqm	
	Say 140.181 sqm @ Rs 1381.66 / sqm						Rs 193682.48	
18	11.36	Providing and fixing 1 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.						
	toilet							
	wall tiles	2	5.000	1.800			18.000	
	passage	1	7.000	1.800			12.600	
	Total Quantity						30.600 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						30.600 sqm	
	Say 30.600 sqm @ Rs 919.30 / sqm						Rs 28130.58	
19	11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.						
	toilet	2	1.200	1.500			3.600	
	passage	1	1.400	3.200			4.480	
	Total Quantity						8.080 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						8.080 sqm	
	Say 8.080 sqm @ Rs 923.12 / sqm						Rs 7458.81	

20	od56046/2019_2020 providing and fixing pressed Steel Windows made out of 18G (L.2mm) thick prime quality TATA's GALVANO Steel sheets using profiles g2 x 60 mm for window frames and 60 x 25mm architectural section for Shutter frame corners mitred, welded and assembled with stainlesssteel I-max Hinges (Top and bottom) Lock handle, or SS Tower bolts, rubber shock absorbers and then fitted with standard M.s Grills of Dia 12 mm rod @ 112 mm c/c horizontally with 25 x 5 flat 2 Nos per panel vertically as specified and provided with fixing hold fasts or Anchor fasteners and finally applied with powder coating						
	Window W3	6	1.650		1.500		14.850
	Ventilator V	2	0.600		0.450		0.540
	Total Quantity						15.390 per sqm
	Total Deducted Quantity						0.000 per sqm
	Net Total Quantity						15.390 per sqm
	Say 15.390 per sqm @ Rs 8073.09 / per sqm						Rs 124244.86
21	od56047/2019_2020 Supplying and fixing of Double skin door made out of section 105 x 50 x 1.2 mm, 18 G for frame and 35 mm thick double skin shutter panel 2nos with 0.8 mm thick outer sheet on both sides with stiffeners inside and then filled with resin bonded honey comb craft paper, fitted with SS ball bearing hinges, aldops on both sides, SS Tower bolt and finally applied with polyurethane Powder Coating						
	Door D	2	1.200		2.250		5.400
	Door D2						6.301
	Total Quantity						11.701 per sqm
	Total Deducted Quantity						0.000 per sqm
	Net Total Quantity						11.701 per sqm
	Say 11.701 per sqm @ Rs 10912.86 / per sqm						Rs 127691.37
22	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item);With float glass panes of 4.0 mm thickness						
	Windows W3	6*3	0.500	1.450			13.050
	Total Quantity						13.050 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						13.050 sqm
	Say 13.050 sqm @ Rs 915.22 / sqm						Rs 11943.62
23	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						

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			rooms					
	class room	1	9.000	7.500			67.500	
	stair bottum	2	4.090	1.500			12.270	
	do	1	4.090	2.400			9.816	
	landing	1	3.000	1.500			4.500	
	verandah	1	12.400	1.200			14.880	
			beam					
	vertical wall	10*2	7.690	0.600			92.280	
	horizontal wall 1	15*2	2.880	0.300			25.920	
		18*2	2.150	0.250			19.350	
			Sunshade					
	sunshade front	1	12.830	0.900			11.547	
	do side	1	7.900	0.900			7.110	
	do	1	11.050	0.900			9.945	
			wall					
	class room	2	7.500	4.000			60.000	
	do	2	9.000	4.000			72.000	
	stair room horizontal	1	7.500	4.000			30.000	
	verandah	1	24.930	4.000			99.720	
	column inner side (50*25)	2	0.300	4.000			2.400	
	column (.25*.25)	5	1.000	2.400			12.000	
	outer wall	1	43.790	4.500			197.055	
			Deductions					
	Door D1	2	1.200		2.250		-5.399	
	Door D2	3	0.900		2.100		-5.670	
	Window W3	6	1.650		1.500		-14.849	
	ventilator V	4	0.600		0.450		-1.080	
	verandah opening	3	2.950		2.400		-21.240	
	do	1	3.000		2.400		-7.199	
	do	1	2.400		2.400		-5.760	
	Total Quantity						748.293 sqm	
	Total Deducted Quantity						-61.197 sqm	

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	Net Total Quantity						687.096 sqm	
	Say 687.096 sqm @ Rs 45.61 / sqm						Rs 31338.45	
24	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work							
	Area same as to item no 23	1	687.096				687.096	
	Total Quantity						687.096 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						687.096 sqm	
	Say 687.096 sqm @ Rs 104.24 / sqm						Rs 71622.89	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
2 FIRST FLOOR								
1	5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)							
	Column first floor							
	Columns	26	0.500	0.250	3.700		12.025	
	do	12	0.250	0.250	3.700		2.776	
	Column second floor							
	Stair room ciolumn	4	0.500	0.250	2.400		1.200	
	do	2	0.500	0.250	2.700		0.675	
	do	1	0.500	0.250	2.100		0.263	
	do	1	0.250	0.250	2.100		0.132	
	dummy column	19	0.500	0.250	2.700		6.413	
	do	11	0.250	0.250	2.700		1.857	
	Total Quantity						25.341 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						25.341 cum	
	Say 25.341 cum @ Rs 8819.97 / cum						Rs 223506.86	
2	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with1:1.5:3 (1 cement :							

1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).							
Lintels							
Horizontal walls	10	4.380	0.200	0.150		1.314	
vertical wall	18	3.200	0.200	0.150		1.729	
Beams							
Horizontal beams	10	4.380	0.250	0.400		4.380	
do	4	3.000	0.250	0.300		0.900	
do	7	2.150	0.250	0.300		1.129	
do	3	2.950	0.250	0.300		0.664	
Vertical beams	18	3.200	0.250	0.300		4.320	
do	4	7.500	0.250	0.600		4.500	
do	7	2.950	0.250	0.300		1.549	
do	2	2.150	0.250	0.300		0.323	
do	1	2.220	0.250	0.300		0.167	
do	1	1.680	0.250	0.300		0.126	
roof slab							
roof slab	1	12.200	23.300	0.120		34.112	
do	1	13.000	9.800	0.120		14.508	
Deductions							
stair opening	1	3.000	5.100	0.120		-1.835	
do	1	2.400	3.600	0.120		-1.036	
staircase							
waist slab	2	4.090	1.500	0.120		1.473	
do	1	4.090	2.400	0.120		1.178	
landing	1	3.400	1.700	0.120		0.694	
steps	12	1.500	0.300	0.150		0.810	
step 2	6	2.400	0.300	0.150		0.648	
Sunshade							
all around	1	90.580	0.850	0.100		7.700	
sunshade rib	2	4.380	0.200	0.150		0.263	
do	10	3.200	0.200	0.150		0.961	
Plinth beam							
topportion	6	4.380	0.250	0.400		2.628	

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	do	2	2.150	0.250	0.250		0.269	
	do	18	3.200	0.250	0.300		4.320	
	Total Quantity						90.665 cum	
	Total Deducted Quantity						-2.871 cum	
	Net Total Quantity						87.794 cum	
	Say 87.794 cum @ Rs 9122.37 / cum						Rs 800889.35	
3	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							
	do for columns item No 1	1	25.341			100.0	2534.100	
	do for beam slab etc item no 2	1	87.794			90.0	7901.460	
	Total Quantity						10435.560 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						10435.560 kilogram	
	Say 10435.560 kilogram @ Rs 69.86 / kilogram						Rs 729028.22	
4	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
						roof slab		
	roof slab	1	12.200	23.300			284.260	
	do	1	13.000	9.300			120.900	
	Deductions							
	stair opening	1	3.000	5.100			-15.299	
	do	1	2.400	3.600			-8.640	
	Sunshade							
	all around	1	90.580	0.850			76.993	
	sunshade rib	2	4.380	0.500			4.380	
	do	10	3.200	0.500			16.000	
	Total Quantity						502.533 sqm	
	Total Deducted Quantity						-23.939 sqm	
	Net Total Quantity						478.594 sqm	
	Say 478.594 sqm @ Rs 521.24 / sqm						Rs 249462.34	
5	5.9.5							

	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers						
	Lintels						
	Horizontal walls	10	4.380	0.500		21.900	
	vertical wall	18	3.200	0.500		28.800	
	Beams						
	Horizontal beams	10	4.380	1.050		45.990	
	do	4	3.000	0.850		10.200	
	do	7	2.150	0.850		12.793	
	do	3	2.950	0.850		7.523	
	Vertical beams	18	3.200	0.850		48.960	
	do	4	7.500	1.450		43.500	
	do	7	2.950	0.850		17.553	
	do	2	2.150	0.850		3.655	
	do	1	2.220	0.850		1.887	
	do	1	1.680	0.850		1.428	
	Plinth beam						
	topportion	6	4.380	1.050		27.594	
	do	2	2.150	0.750		3.225	
	do	18	3.200	0.850		48.960	
	Total Quantity					323.968 sqm	
	Total Deducted Quantity					0.000 sqm	
	Net Total Quantity					323.968 sqm	
	Say 323.968 sqm @ Rs 423.24 / sqm					Rs 137116.22	
6	5.9.7 Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)						
	staircase						
	waist slab	2	4.090	1.500		12.270	
	do	1	4.090	2.400		9.816	
	landing	1	3.400	1.700		5.780	
	steps	24	1.500	0.450		16.201	
	step 2	12	2.400	0.450		12.960	
	Total Quantity					57.027 sqm	

		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					57.027 sqm	
		Say 57.027 sqm @ Rs 517.60 / sqm					Rs 29517.18	
7	5.9.6 Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts							
column first floor								
Columns	26	1.000		3.700		96.200		
do	12	1.000		3.700		44.401		
Column second floor								
Stair room column	4	0.500	0.250	2.400		1.200		
do	2	0.500	0.250	2.700		0.675		
do	1	0.500	0.250	2.100		0.263		
do	1	0.250	0.250	2.100		0.132		
dummy column	19	0.500	0.250	2.700		6.413		
do	11	0.250	0.250	2.700		1.857		
Total Quantity						151.141 sqm		
Total Deducted Quantity						0.000 sqm		
Net Total Quantity						151.141 sqm		
Say 151.141 sqm @ Rs 577.46 / sqm						Rs 87277.88		
8	od56045/2019_2020 Laterate masonry with neatly dressed laterate stone of size 35 x 20 x 20cm 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.							
First floor								
horizontal walls	10	4.380	0.200	3.300		28.908		
do	3	2.950	0.200	3.300		5.841		
do	1	3.000	0.200	3.300		1.981		
vertical wall	18	3.200	0.200	3.300		38.017		
do	7	3.020	0.200	3.300		13.953		
Deductions								
Door	8	1.200	0.200	2.250		-4.320		
Window	20	1.650	0.200	1.500		-9.900		
verandah opening	3	2.950	0.200	2.400		-4.248		

	do	7	3.000	0.200	2.400		-10.080	
	stair room							
	horizontal wall	1	3.000	0.200	2.400		1.441	
	do	1	2.200	0.200	2.400		1.056	
	Vertical wall	4	3.200	0.200	2.700		6.913	
		2	3.200	0.200	2.850		3.649	
	parapet wall							
	second floor	1	89.200	0.200	0.600		10.704	
	Deductions							
	Door	2	1.200	0.200	2.400		-1.152	
	Window W3	2	1.500	0.200	1.650		-0.990	
	Total Quantity						112.463 cum	
	Total Deducted Quantity						-30.690 cum	
	Net Total Quantity						81.773 cum	
	Say 81.773 cum @ Rs 5163.84 / cum						Rs 422262.69	
9	od56046/2019_2020 providing and fixing pressed Steel Windows made out of 18G (L.2mm) thick prime quality TATA's GALVANO Steel sheets using profiles g2 x 60 mm for window frames and 60 x 25mm architectural section for Shutter frame corners mitred, welded and assembled with stainlesssteel l-max Hinges (Top and bottom) Lock handle, or SS Tower bolts, rubber shock absorbers and then fitted with standard M.s Grills of Dia 12 mm rod @ 112 mm c/c horizontally with 25 x 5 flat 2 Nos per panel vertically as specified and provided with fixing hold fasts or Anchor fasteners and finally applied with powder coating							
	Window W3	22	1.650		1.500		54.450	
	Total Quantity						54.450 per sqm	
	Total Deducted Quantity						0.000 per sqm	
	Net Total Quantity						54.450 per sqm	
	Say 54.450 per sqm @ Rs 8073.09 / per sqm						Rs 439579.75	
10	od56047/2019_2020 Supplying and fixing of Double skin door made out of section 105 x 50 x 1.2 mm, 18 G for frame and 35 mm thick double skin shutter panel 2nos with 0.8 mm thick outer sheet on both sides with stiffeners inside and then filled with resin bonded honey comb craft paper, fitted with SS ball bearing hinges, aldops on both sides, SS Tower bolt and finally applied with polyurethane Powder Coating							
	Door D	10	1.200		2.250		27.000	
	Total Quantity						27.000 per sqm	
	Total Deducted Quantity						0.000 per sqm	

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	Net Total Quantity						27.000 per sqm	
	Say 27.000 per sqm @ Rs 10912.86 / per sqm						Rs 294647.22	
11	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness							
	Window W3	22*3	0.500	1.450			47.850	
	Total Quantity						47.850 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						47.850 sqm	
	Say 47.850 sqm @ Rs 915.22 / sqm						Rs 43793.28	
12	50.10.1 Steel work in built up G I tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting,fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete							
	Staircasxe room							
	100 x 50 mm G I square pipe	4	11.000			3.8	167.200	3.8 Kg/m
	do	5	5.000			3.8	95.000	3.8 Kg/m
	Total Quantity						262.200 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						262.200 kg	
	Say 262.200 kg @ Rs 123.61 / kg						Rs 32410.54	
13	50.10.2 Steel work for purlin/single section with G I pipes including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete							
	Staircase room S F							
	40 x 40 mm purlins	14	5.000			1.96	137.200	1.96 Kg/m
	Total Quantity						137.200 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						137.200 kg	
	Say 137.200 kg @ Rs 100.66 / kg						Rs 13810.55	
14	od56049/2019_2020 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.35 mm (+0.05%), total coated thickness with zinc coating 120 grams							

	per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.						
	roofing sheet	1	5.000	11.000		55.000	
	Total Quantity						55.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						55.000 sqm
	Say 55.000 sqm @ Rs 638.11 / sqm						Rs 35096.05
15	50.13.1 9 mm cement plastering of mix : 1:3 (1 cement : 3 fine sand) including all cost of materials, labour charges etc complete						
	Ceiling						
	Class room	4	9.000	7.500		270.000	
	verandah	1	2.400	22.900		54.960	
	do	1	12.200	1.200		14.640	
	waist slab	2	4.090	1.500		12.270	
	do					8.999	
	landing	1	1.500	3.000		4.500	
	beam sides	4 * 4	4.380	0.300		21.024	
	do	4 * 4	3.350	0.600		32.160	
	Total Quantity						418.553 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						418.553 sqm
	Say 418.553 sqm @ Rs 199.46 / sqm						Rs 83484.58
16	13.4.1 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)						
	wall plastering						
	class rooms	4	33.000	3.700		488.401	
	verandah	1	50.200	3.700		185.740	
	do	1	26.530	3.700		98.162	
	stair room	1	16.200	3.700		59.940	
	Outer wall	1	90.000	3.700		333.000	

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	Deductions						
	Door D	8	1.200		2.250		-21.599
	Window	20	1.650		1.500		-49.499
	Verandah Opening	7	2.950		2.400		-49.560
	do	1	3.000		2.400		-7.199
	do	3	2.950		2.400		-21.240
	do	1	2.150		2.400		-5.159
	Stair room S F						
	inside wall	1	22.600		2.700		61.021
	outer wall	1	23.400		2.700		63.180
	Deductions S F						
	Door D	2	1.200		2.400		-5.760
	Window W3	2	1.650		1.500		-4.949
	Parapet wall						
	second floor	1	90.100		2.200		198.220
	Total Quantity						1487.664 sqm
	Total Deducted Quantity						-164.965 sqm
	Net Total Quantity						1322.699 sqm
	Say 1322.699 sqm @ Rs 223.22 / sqm						Rs 295252.87
17	11.41.2						
	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, 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. Size of Tile 600 x 600 mm.						
	floor tiles						
	class room	4	9.200	7.700			283.360
	verandah	1	19.100	2.400			45.840
	do	1	12.400	1.400			17.360
	steps	12	2.400	0.450			12.960
	do	24	1.500	0.450			16.201
	Total Quantity						375.721 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						375.721 sqm
	Say 375.721 sqm @ Rs 1381.66 / sqm						Rs 519118.68

18	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer						
		Ceiling						
	Class room	4	9.000	7.500			270.000	
	verandah	1	2.400	22.900			54.960	
	do	1	12.200	1.200			14.640	
	waist slab	2	4.090	1.500			12.270	
	do	1	4.090	2.200			8.999	
	landing	1	1.500	3.000			4.500	
	beam sides	4 * 4	4.380	0.300			21.024	
	do	4 * 4	3.350	0.600			32.160	
		wall plastering						
	class rooms	4	33.000	3.700			488.401	
	verandah	1	50.200	3.700			185.740	
	do	1	26.530	3.700			98.162	
	stair room	1	16.200	3.700			59.940	
	Outer wall	1	90.000	3.700			333.000	
		Deductions						
	Door D	8	1.200	2.250			-21.599	
	Window	20	1.650	1.500			-49.499	
		Stair room S F						
	inside wall	1	22.600		2.700		61.021	
	outer wall	1	23.400		2.700		63.180	
		Deductions S F						
	Door D	2	1.200		2.400		-5.760	
	Window W3	2	1.650		1.500		-4.949	
		Parapet wall						
	second floor	1	90.100		2.200		198.220	
		Total Quantity						1906.217 sqm
		Total Deducted Quantity						-81.807 sqm
		Net Total Quantity						1824.410 sqm
		Say 1824.410 sqm @ Rs 45.61 / sqm						Rs 83211.34

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19	13.60.1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	Area as per item no 19	1	1824.410				1824.410	
	Total Quantity						1824.410 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1824.410 sqm	
	Say 1824.410 sqm @ Rs 104.24 / sqm						Rs 190176.50	
20	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)						
	25 mm pipe	2	4.000		0.780		6.240	
	stair case 50 mm pipe	12	1.000		1.490		17.880	
	do	2	6.500		1.490		19.370	
	25 mm pipe	8	6.500		0.780		40.560	
	ramp 50 mm pipe	4	1.000		1.490		5.960	
	do	1	8.000		1.490		11.920	
	25 mm pipe	2	8.000		0.780		12.480	
	Total Quantity						114.410 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						114.410 kg	
	Say 114.410 kg @ Rs 583.08 / kg						Rs 66710.18	
SI No	Description	No	L	B	D	CF	Quantity	Remark
3 PLUMBING AND SANITARY ARRANGEMENTS								
1	17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid						
	CLOSET	2					2.000	

	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 4219.66 / each						Rs 8439.32	
2	17.7.3 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps							
	WASH BASIN	2					2.000	
	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 2586.20 / each						Rs 5172.40	
3	17.32.2 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 453x357 mm							
	WASH BASIN	2					2.000	
	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 929.17 / each						Rs 1858.34	
4	18.51.1 Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.15 mm nominal bore							
	TOILET	2					2.000	
	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 607.95 / each						Rs 1215.90	
5	18.53.1 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 893115 mm nominal bore							
	CLOST AND WASH	6					6.000	
	Total Quantity						6.000	each

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		Total Deducted Quantity				0.000 each	
		Net Total Quantity				6.000 each	
		Say 6.000 each @ Rs 587.15 / each				Rs 3522.90	
6	50.18.8.3.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 25 mm pipe 10kgf /cm2						
INSIDE		3				3.000	
		Total Quantity				3.000 metre	
		Total Deducted Quantity				0.000 metre	
		Net Total Quantity				3.000 metre	
		Say 3.000 metre @ Rs 283.84 / metre				Rs 851.52	
7	50.18.8.4.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 32 mm pipe 6Kgf/cm2						
INSIDE		3				3.000	
		Total Quantity				3.000 metre	
		Total Deducted Quantity				0.000 metre	
		Net Total Quantity				3.000 metre	
		Say 3.000 metre @ Rs 289.50 / metre				Rs 868.50	
8	50.18.8.8.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 75 mm pipe 6 Kgf/cm2						
INSIDE		3				3.000	
		Total Quantity				3.000 metre	
		Total Deducted Quantity				0.000 metre	
		Net Total Quantity				3.000 metre	
		Say 3.000 metre @ Rs 445.61 / metre				Rs 1336.83	
9	50.18.8.9.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC Solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 110 mm pipe 4 kgf/cm2						

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	INSIDE	3				3.000	
	Total Quantity					3.000 metre	
	Total Deducted Quantity					0.000 metre	
	Net Total Quantity					3.000 metre	
	Say 3.000 metre @ Rs 492.35 / metre						Rs 1477.05
10	50.18.9.4.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 32 mm dia 10.Kgf/cm2						
	SUPPLY LINE	1	6.000			6.000	
	Total Quantity					6.000 metre	
	Total Deducted Quantity					0.000 metre	
	Net Total Quantity					6.000 metre	
	Say 6.000 metre @ Rs 172.35 / metre						Rs 1034.10
11	50.18.9.7.1 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm2						
	waste line	1	6.000			6.000	
	Total Quantity					6.000 metre	
	Total Deducted Quantity					0.000 metre	
	Net Total Quantity					6.000 metre	
	Say 6.000 metre @ Rs 256.46 / metre						Rs 1538.76
12	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge. 110 mm dia 6Kgf/cm2						
	sewage line	1	6.000			6.000	
	Total Quantity					6.000 metre	
	Total Deducted Quantity					0.000 metre	
	Net Total Quantity					6.000 metre	
	Say 6.000 metre @ Rs 401.96 / metre						Rs 2411.76
13	50.18.9.13.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 25 mm dia 10 Kgf/cm2- External work - Exposed on wall						
	over wall	1	10.000			10.000	
	Total Quantity					10.000 metre	

PRICE

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	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 189.08 / metre						Rs 1890.80	
14	50.18.9.14.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10 Kg/cm2 - External work- Exposed on wall							
	over wall	1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 227.58 / metre						Rs 2275.80	
15	50.18.9.20.3 Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Door Elbow							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 69.63 / no						Rs 139.26	
16	50.18.9.20.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 68.56 / no						Rs 137.12	
17	50.18.9.20.6 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement -63x63x63 mm dia Door Tee							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 82.13 / no						Rs 164.26	

PRICE

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18	50.18.9.22.3 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement-110 mm dia Door Elbow							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 117.13 / no						Rs 234.26	
19	50.18.9.22.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 144.29 / no						Rs 288.58	
20	50.18.9.22.6 Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110x110x110 mm dia Door,tee							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 168.77 / no						Rs 337.54	
21	50.18.9.22.8 Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl							
	fittings	2					2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 109.51 / no						Rs 219.02	
	GST @						0.0%	
	GST Amount						0.00	
	Total with GST Amount						7770302.00	

PRICE

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Lumpsum for round off	0.00
TOTAL Rs 7770302.00	
Rounded Total Rs 77,70,302	
Rupees Seventy Seven Lakh Seventy Thousand Three Hundred and Two Only	

(Cost Index Applied for this estimate is 32.04%)

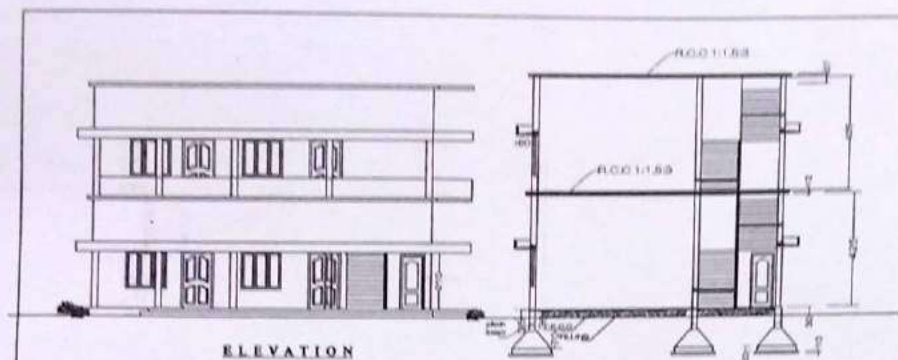
Note : Rate adopted are exclusive of Contractors Profit.


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDR..
KANNUR

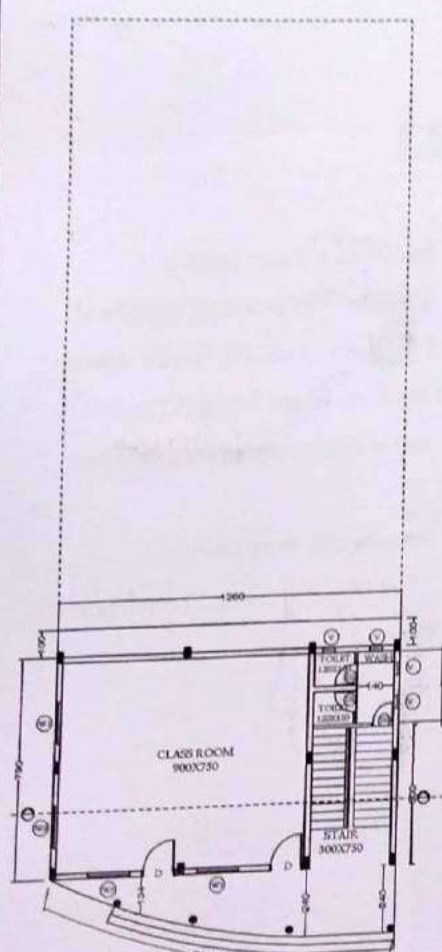
Other Engineering Organisations

PRICE

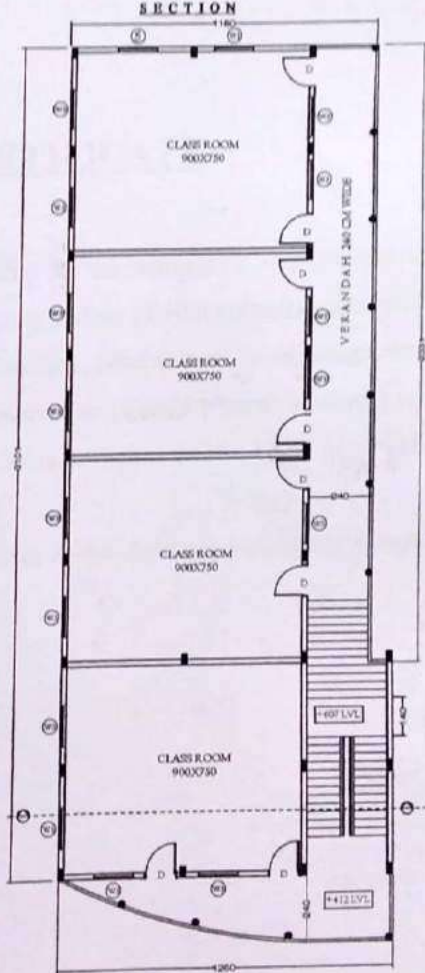


ELEVATION

SECTION



GROUND FLOOR PLAN



FIRST FLOOR PLAN

PLAN AND DETAILS OF PROPOSED ACADEMIC BUILDING FOR P.E.M COLLEGE OF EDUCATION MADAMBAM,
SREEKANDAPURAM, KANNUR

ITEMS	
1	DOOR
2	DOOR
3	DOOR
4	DOOR
5	DOOR
6	DOOR
7	DOOR
8	DOOR
9	DOOR
10	DOOR

PROJECT AREA
PROJECT G.P. AREA : 154.31 M²
PROJECT P.P. AREA : 884.15 M²

SCALE : 1:100
ALL DIMS IN CM

SITE ADDRESS

[Signature]

SITE ENGINEER
NIRMITHI KENDR
KANNUR

DATE

PROJECT ADDRESS

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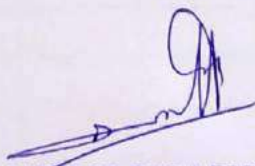
PROJECT ADDRESS

PROJECT ADDRESS

CERTIFICATE

Certified that the observed datas for the estimate of Construction of Academic Building renovation & up gradation of vital infrastructure facilities of institution of P.K.M College of Education , Madambam, Sreekandapuram , Kannur District prepared based on close observation of similar items in similar conditions and the rates are provided as per minimum requirement.

Certified that the market rates in the data are personally enquired by me
And found correct.



PROJECT ENGINEER
NIRMITHIKENDRA
KANNUR

PRICE

EST NO:2019/7866

Data Analysis

BUILDING PROPER
1 Specification Code: od56048/2019_2020

od56048/2019_2020 :Laterate masonry with neatly dressed laterate stone of size 35x20x20cm or nearest size in cement mortar 1:6 for foundation and basement including all cost of materials, labour charges etc.
Details of cost for one cum.

Code	Description	Unit	Quantity	Rate	Amount
MR	laterate stone of size 40x20x15cm 	each	66.00000	38.00	2508.00
3.11	Rate as per item number 3.11 of SH: Mortars 	cum	0.08740	3217.55	281.21
9999	Sundries 	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class 	Day	0.40000	487.00	194.80
0124	Mason (brick layer) 2nd class 	Day	0.40000	448.00	179.20
0115	Coolie 	Day	1.46000	368.00	537.28
0101	Bhisti 	Day	0.45000	407.00	183.15
TOTAL					3888.36
cost for one cum					3888.37
say					3888.37

	Add Water Charges @ 1.0%				38.88
	Add CPOH @ 7.5%				294.54
	Cost index 32.04 %				480.19
	Total with Cost index				4701.99
	Say				4701.99

2 Specification Code: od56050/2019_2020

od56050/2019_2020 :Laterate masonry with neatly dressed laterate stone of size 35x20x20cm 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. (Derived From D S R 50.6.7.2)
Details of cost for one cum.

PRICE

EST NO:2019/7866

Code	Description	Unit	Quantity	Rate	Amount
MR	laterite stone of size 30x20x20cm 	each	66.00000	38.00	2508.00
3.11	Rate as per item number 3.11 of SH: Mortars 	cum	0.08740	3217.55	281.21
9999	Sundries 	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class 	Day	0.53000	487.00	258.11
0124	Mason (brick layer) 2nd class 	Day	0.53000	448.00	237.44
0115	Coolie 	Day	1.90000	368.00	699.20
0101	Bhisti 	Day	0.45000	407.00	183.15
9999	Sundries 	L.S	22.36000	1.73	38.68
TOTAL					4210.51
cost for one cum					4210.52
	say				4210.52

	Add Water Charges @ 1.0%				42.10
	Add CPOH @ 7.5%				318.94
	Cost index 32.04 %				592.26
	Total with Cost index				5163.84
	Say				5163.84

3 Specification Code: od56046/2019_2020

od56046/2019_2020 :providing and fixing pressed Steel Windows made out of 18G (L.2mm) thick prime quality TATA's GALVANO Steel sheets using
profiles g2 x 60 mm for window frames and 60 x 25mm architectural section for Shutter frame corners mitred, welded and
assembled with stainless steel l-max Hinges (Top and bottom) Lock handle, or SS Tower bolts, rubber shock absorbers and then
fitted with standard M.s Grills of Dia 12 mm rod @ 112 mm c/c horizontally with 25 x 5 flat 2 Nos per panel vertically as
specified and provided with fixing hold fasts or Anchor fasteners and finally applied with powder
coating

Code	Description	Unit	Quantity	Rate	Amount
MR	Supplying Powder coated window frame with shutter of size 165 x 150 cm as per the specification	sqm	3.71000	7370.00	27342.70

PRICE

EST NO:2019/7866

0114	Beldar 	Day	0.50000	368.00	184.00
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TOTAL					27526.70
	cost for 3.71 per sqm				27526.70
	cost for one per sqm				7419.60
	say				7419.60

	Add Water Charges @ 1.0%				74.19
	Add CPOH @ 7.5%				562.03
	Cost index 32.04 %				17.25
	Total with Cost index				8073.09
	Say				8073.09

4 Specification Code: od56047/2019_2020

Other Engineering Organisations

od56047/2019_2020 :Supplying and fixing of Double skin door made out of section 105 x 50 x 1.2 mm,18 G for frame and 35 mm
thick double skin shutter panel 2nos with 0.8 mm.thick outer sheet on both sides with stiffeners inside and then
filled with resin bonded honey comb craft paper, fitted with SS ball bearing hinges,aldops on both sides, SS
Tower bolt and finally applied with polyurethane Powder Coating

Code	Description	Unit	Quantity	Rate	Amount
MR	Supplying Powder coated door frame with shutter of size 120 x 225 cm as per the specification	sqm	2.70000	9961.00	26894.70
0114	Beldar 	Day	0.50000	368.00	184.00
TOTAL					27078.70
	cost for 2.7 per sqm				27078.70
	cost for one per sqm				10029.15

PRICE

EST NO:2019/7866

	say				10029.15
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	Add Water Charges @ 1.0%				100.29
	Add CPOH @ 7.5%				759.70
	Cost index 32.04 %				23.70
	Total with Cost index				10912.86
	Say				10912.86

FIRST FLOOR

1 Specification Code: od56045/2019_2020

od56045/2019_2020 :Laterate masonry with neatly dressed laterate stone of size 35 x 20 x 20cm 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.
Details of cost for one cum.

Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
MR	laterate stone of size 35 x 20 x 20 cm 	each	66.00000	38.00	2508.00
3.11	Rate as per item number 3.11 of SH: Mortars 	cum	0.08740	3217.55	281.21
9999	Sundries 	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class 	Day	0.53000	487.00	258.11
0124	Mason (brick layer) 2nd class 	Day	0.53000	448.00	237.44
0115	Coolie 	Day	1.90000	368.00	699.20
0101	Bhisti 	Day	0.45000	407.00	183.15
9999	Sundries 	L.S	22.36000	1.73	38.68
TOTAL					4210.51
cost for one cum					4210.52
	say				4210.52

PRICE

EST NO:2019/7866

	Add Water Charges @ 1.0%				42.10
	Add CPOH @ 7.5%				318.94
	Cost index 32.04 %				592.26
	Total with Cost index				5163.84
	Say				5163.84

2 Specification Code: od56046/2019_2020

od56046/2019_2020 :providing and fixing pressed Steel Windows made out of 18G (L.2mm) thick prime quality TATA's GALVANO Steel sheets using
profiles g2 x 60 mm for window frames and 60 x 25mm architectural section for Shutter frame corners mitred, welded and
assembled with stainlesssteel l-max Hinges (Top and bottom) Lock handle, or SS Tower bolts, rubber shock absorbers and then
fitted with standard M.s Grills of Dia 12 mm rod @ 112 mm c/c horizontally with 25 x 5 flat 2 Nos per panel vertically as
specified and provided with fixing hold fasts or Anchor fasteners and finally applied with powder
coating

Code	Description	Unit	Quantity	Rate	Amount
MR	Supplying Powder coated window frame with shutter of size 165 x 150 cm as per the specification	sqm	3.71000	7370.00	27342.70
0114	Beldar 	Day	0.50000	368.00	184.00
TOTAL					27526.70
	cost for 3.71 per sqm				27526.70
	cost for one per sqm				7419.60
	say				7419.60

	Add Water Charges @ 1.0%				74.19
	Add CPOH @ 7.5%				562.03
	Cost index 32.04 %				17.25
	Total with Cost index				8073.09
	Say				8073.09

PRICE

EST NO:2019/7866

3 Specification Code: od56047/2019_2020

od56047/2019_2020 :Supplying and fixing of Double skin door made out of section 105 x 50 x 1.2 mm, 18 G for frame and 35 mm thick double skin shutter panel 2nos with 0.8 mm thick outer sheet on both sides with stiffeners inside and then filled with resin bonded honey comb craft paper, fitted with SS ball bearing hinges, aldops on both sides, SS Tower bolt and finally applied with polyurethane Powder Coating

Code	Description	Unit	Quantity	Rate	Amount
MR	Supplying Powder coated door frame with shutter of size 120 x 225 cm as per the specification	sqm	2.70000	9961.00	26894.70
0114	Beldar	Day	0.50000	368.00	184.00
TOTAL					27078.70
	cost for 2.7 per sqm				27078.70
	cost for one per sqm				10029.15
	say				10029.15
	Add Water Charges @ 1.0%				100.29
	Add CPOH @ 7.5%				759.70
	Cost index 32.04 %				23.70
	Total with Cost index				10912.86
	Say				10912.86

4 Specification Code: od56049/2019_2020

od56049/2019_2020 :Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.35 mm (+0.05%), total coated thickness with zinc coating

PRICE

EST NO:2019/7866

120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Details of cost for 216.14 sqm

MATERIAL:

(External dimension of plinth).

Area of roof

20.2x10.70 m = 216.14 sqm.

MATERIAL:

Sheets used = 20 Nos x 10.70m x 1.06m = 226.84 sqm

Add 3% wastage = 6.81

Total = 233.65 sqm

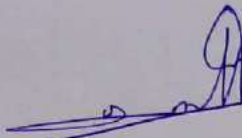
Code	Description	Unit	Quantity	Rate	Amount
MR	Precoated galvanised iron profile sheet 0.35 mm TCT	sqm	233.65000	460.00	107479.00
9999	Sundries Carriage of sheets	L.S	104.00000	1.73	179.92
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	476.00000	115.00	5474.00
1208	Bitumen washer	100 nos	476.00000	30.00	142.80
1209	G.I. Plain washer thick	100 nos	476.00000	35.00	166.60
9977	Carriage of bolts and nuts, washers etc.	L.S	8.06000	1.73	13.94
9999	Sundries LABOUR:	L.S	39.52000	1.73	68.37
0130	Mistry	Day	2.34000	487.00	1139.58
0112	Carpenter 2nd class	Day	9.34000	448.00	4184.32
0114	Beldar	Day	9.34000	368.00	3437.12
TOTAL					122285.65
	cost for 216.14 sqm				122285.65
	cost for one sqm				565.77
	say				565.77

	Add Water Charges @ 1.0%				5.65
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PRICE

EST NO:2019/7866

	Add CPOH @ 7.5%				42.85
	Cost index 32.04 %				23.82
	Total with Cost index				638.11
	Say				638.11


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR

Other Engineering Organisations

PRICE

Detailed estimate for Electrification work to the Academic building at PKM College Madambam, Sreekandapuram , Kannur Dt							
Part I - General Wiring					DSES :68/019		
Sl. No	DSOR Code	Qty	Unit	Specification	Unit	Rate (Incl.C I@	Amount
1				Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FRLS PVC insulated stranded single core copper conductor cable 650V grade, including providing switch board main and continuous earthing with No.14 SWG bare copper,required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (RoHS compliant			
a	90.2.1.8	28	No's	Single Control light point with 6A, plate ceiling rose (MP)	point	992	27776
b	90.2.1.10	22	No's	Single control light point without ceiling rose (MP)	point	942	20724
c	90.2.1.9	2	No's	Twin Control light point with 6A, plate ceiling rose(MP)	point	1576	3152
d	90.2.1.15	2	No's	Single Control light point with 6A, plate ceiling rose (LP)	point	1182	2364
e	90.2.1.11	24	No's	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator	point	1477	35448

f	90.2.1.13	5	No's	Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that of light points.	/E	496	2480
g	90.2.1.14	5	No's	Independent Plug	/E	661	3305
2	1.32	2	No's	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	/E	536	1072
3	D1	5	No's	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 A modular socket outlet and 3 Nos. 5/ 6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	each	933	4665
4	1.24			Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.			
a	D2	5	No's	RJ 45	/E	177	885
5	1.27			Supplying and fixing following size/ modules, GI/Fibre box alongwith modular base & cover plate for modular switches in recess etc. as required.			
a	1.27.2	5	No's	3 Module (100 mmX75 mm)	/E	244	1220
6	1.28			Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.			
a	1.28.2	5	No's	3 Module	/E	120	600
7	1.58	22	No's	Supplying and fixing PVC batten Straight/angle holder including connections etc. as required.	/E	82	1804

8	D3	22	No's	supply and fixing of 10W LED lamp in existing batten holder (Havellsadore B22 cool day light LHLDERUEML8X010 or equivalent make, philips, osram, syska).	/E	242	5324
9	90.3.19			Supply conveyance, installation, testing and commissioning the light fittings of following types made from CRCA sheet 0.5mm thickness with all accessories and lamps directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required			
a	90.3.19.1	29	No's	1x28wT5/LED fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube .	/E	1011	29319
10	90.4.1	24	No's	Supply and installation of suitable size MS rod type fan clamp in the RCC slab as per IS 732 as required.	/E	149	3576
11	90.4.5			Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.			
a	90.4.5.2	24	No's	1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackeles and blades and resistance type regulator working on 230V/240V single phase A/C	/E	1858	44592

12	90.4.8	1	No's	Charges for cutting holes suitable for accommodating exhaust fans up to 305mm sweep including plastering colour washing etc. as required.	/E	383	383
13				Supply, of the following sizes of <i>exhaust fans</i> in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.			
a	D4	1	No's	300/ 305 mm, single phase light duty exhaust fan in metal frame havells ventililair TSP 300mm sweep FHDDMTDBS12) or equivalent make of crompton, almonard	/E	2623	2623
14	1.21			Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.			
a	1.21.1	110	Mts	20 mm	/M	75	8250
b	1.21.2	30	Mts	25 mm	/M	91	2730
15	1.53			Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.			
a	1.53.1	100	Mts	1 run of cable	/M	45	4500
16	90.6.4			Supply and drawing 650/1100 V grade FRLS PVC insulated stranded single core copper conductor cables conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.			
a	90.6.4.13	130	Mts	1.50 sq.mm 3 Run	/M	111	14430

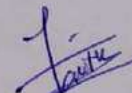
b	90.6.4.22 + 90.6.4.11	5	Mts	2.50 sq.mm 2 Run+1.50 sq.mm 1 Run (for PP)	/M	170	850
c	90.6.4.32 + 90.6.4.21	25	Mts	4.00 sq.mm 2 Run + 2.50 sq.mm 1 Run (1φ DB)	/M	199	4975
17				Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in ground including excavation of trench of size 35 x 75 cm, refilling the trench etc. as required but excluding sand cushioning and protective covering (in ordinary soil).			
a	90.12.1.4 0	25	Mts	4 core 10 sq mm	/M	363	9075
18	90.12.7			Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages, colour washing etc. as required.			
b	90.12.7.4 0	15	Mts	4 core 10 sq mm with factory made clamp	/M	228	3420
19	90.12.24			Supply of superior quality copper tubular cable socket and making core termination of cables of the following sizes including crimping etc. as required.			
a	90.12.24. 4	8	No's	10 sq mm	/E	24	192
20	9.1			Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.			

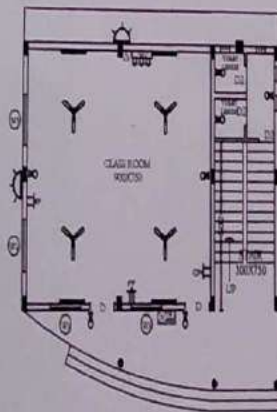
a	9.1.32	2	No's	4 X 10 sq. mm (25mm)	/E	268	536
21	90.11.1			Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required			
a	90.11.1.1 0	1	No's	4 way (8+12) - three phase double cover (IP 42/43)	/E	2756	2756
22				Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)			
a	2.3.3	1	No's	12 way, Double door (Including UPS DB)	/E	1520	1520
23	2.10			Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.10.1	11	No's	Single pole (6-32A)	/E	229	2519
b	D5	1	No's	Triple pole (40-63A)	/E	1562	1562
24	2.13			Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.13.1	1	No's	40 amps 4pole ISO	/E	881	881

25				Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.12.1	1	No's	40 amps 2 Pole ISO	/E	293	293
26	2.15			Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.15.1	1	No's	25 amps 100mA RCCB	/E	2768	2768
27				Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.14.1	1	No's	25 amps 2P RCCB	/E	2179	2179
				Total			254748
				Deduct CP&OH added to the estimate 15%			33228
				Net amount			221520
				Add OH @ 7.5%			16614
				Grand Total amount			238134
				Unforeseen items if any			1866
				Grand Total			240000

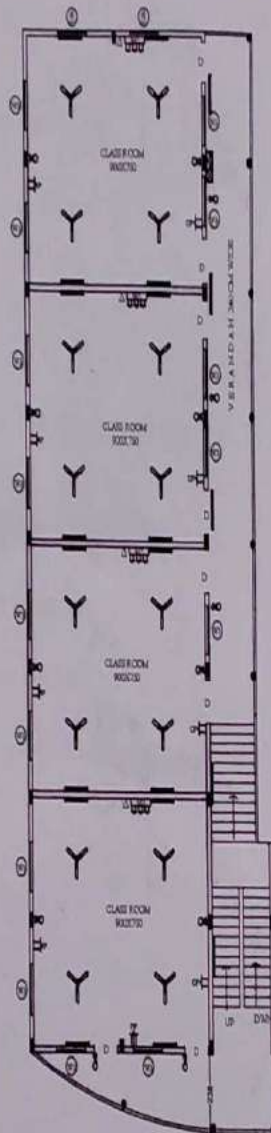
Rupees two lakhs forty thousand


PROJECT :
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR



GROUND FLOOR PLAN



FIRST FLOOR PLAN

Sl. No.	SYMBOL	DESCRIPTION	GF	FF	Total
01		Angle batten with LED	07	15	22
02		LED Slim tube light	04	25	29
03		Bulk head with LED	02	00	02
04		Ceiling fan	04	20	24
05		Exhaust fan	01	00	01
06		Independent Plug	01	04	05
07		Combined Plug	01	04	05
08		3 No. CPB	01	04	05
09		RJ 45 Data Socket	01	04	05
10		Power Plug	01	01	02
11		3 φ 4W DB	01	00	01
12		1 φ 12W DB	00	01	01

[Handwritten Signature]

*Santhosh P.V.
Site Engineer*

D1 For 3No. CPB

Code	Description	Unit	Qty	Rate	Amount
	Details of cost for one each				
	MATERIAL				
1426	Modular base & cover plate for 12 module	each	1	110.4	110.4
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	3	53.6	160.8
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	3	48	144
1305	Modular GI box for 12 module	each	1	102	102
2857	PVC fastener 40mm long	each	2	0.28	0.56
2935	Cement, paint, sand etc.	L.S	1	4.5	4.5
	Total Cost of Materials				522.26
	Cartage @1.0% of Cost of Materials				5.2226
	LABOUR				
1001	Wireman	Day	0.07	447	31.29
1010	Mason, Grade 2	Day	0.04	407	16.28
1007	Khallasi	Day	0.11	368	40.48
	TOTAL				615.53
	Add Overheads & Profit @ 15.0%				92.33
	TOTAL				707.86
	Cost of 1.000 each				707.86
	Rate per each				707.86
	Say				708
	Total value for calculating cost index value for 1No				
	DSOR items				610.31
	DSOR items Total				610.31
	DSOR items Overheads & Profit @ 15.0%				91.5465
	DSOR items Total				701.857
	Total value for calculating cost index value for 1No				701.857
	Cost index 32.04% (Kannur)				224.875
	Total with Cost index				933

For Data Socket outlet (RJ45)

Code	Description	Unit	Qty	Rate	Amount
D2	Details of cost for one each				
MR	MATERIAL				
	RJ45	each	1	119	119
	Total Cost of Materials				119
	Cartage @1.0% of Cost of Materials				1.19
	LABOUR				
1001	Wireman	Day	0.03	447	13.41
1007	Khallasi	Day	0.03	368	11.04
	TOTAL				144.64
	Add Overheads & Profit @ 15.0%				21.696
	TOTAL				166.336
	Cost of 1.000 each				166.34
	Rate per each				166.34
	Say				166
	Total value for calculating cost index value for 1No				
	DSOR items				24.45
	DSOR items Total				24.45
	DSOR items Overheads & Profit @ 15.0%				3.6675
	DSOR items Total				28.1175
	Total value for calculating cost index value for 1No				28.1175
	Cost index 38.24% (Kannur)				10.7521
	Total with Cost index				177

For LED Lamp

Code	Description	Unit	Qty	Rate	Amount
D3	COST FOR 1 EACH				
MR	supply and fixing of 10W LED lamp in existing batten holder (Havellsadore B22 cool day light LHLDERUEML8X010 or equivalent make, philips, osram, syska)	each	1	150	150
	Add Cartage@1.0%				1.5
	TOTAL				151.5
	LABOUR				
1001	Wireman	day	0.1	447	44.7
	TOTAL				196.2
	Add Overheads & Profit @ 15.0%				29.43
	TOTAL				225.63
	Say				226

Total value for calculating cost index value for	
1 No	
DSOR items	44.7
DSOR items Overheads & Profit @ 15.0%	7
DSOR items Total	51
Total value for calculating cost index value for	
1 No	51
Cost index 32.04% (Kannur)	16
Total with Cost index	242

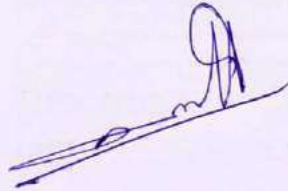
For 300/305 mm Exhaust Fan

Code	Description	Unit	Qty	Rate	Amount
D9	COST FOR 1 EACH				
	A1 MATERIALS				
	300/ 305 mm, single phase light duty exhaust fan in metal frame havells ventililair TSP 300 mm sweep Pista Green (FHVVEMTDBS12) or equivalent make of crompton, almonard		1	1845	1845
	each				
	Add Cartage@1.0%				18.45
	TOTAL				1863.45
	Add Overheads & Profit @15.0%				279.518
	TOTAL				2142.97
90.4.10	Rate as per item Number 90.4.10 of SH:	each	1	480	480
	OD Electrical				
	Cost of 1.000 each				2622.97
	Rate per each				2622.97
	Say				2623

40A to 63A Triple pole MCB

Code	Description	Unit	Qty	Rate	Amount
D5	Details of cost for one each				
	MATERIAL				
MR1340	40 A to 63 A, TP MCB (C curve), 10 kA breaking capacity	each	1	1302.54	1302.54
	Total Cost of Materials				1302.54
	Cartage @1.0% of Cost of Materials				13.0254
	LABOUR				
1001	Wireman	Day	0.04	447	17.88
1007	Khallasi	Day	0.04	368	14.72
	TOTAL				1348.17
	Add Overheads & Profit @ 15.0%				202.225

TOTAL	1550.39
Cost of 1.000 each	1550.39
Rate per each	1550.39
Say	1550
Total value for calculating cost index value for 1 No	
DSOR items	32.6
DSOR items Total	32.6
DSOR items Overheads @ 15.0%	4.890
DSOR items Total	37.490
Total value for calculating cost index value for 1 no	37.490
Cost index 32.04% (Kannur)	12.01
Total with Cost index	1562



For this
Site Engineer.



KANNUR DISTRICT
NIRMITHI KENDRA

THALASSERY - PIN 670101

A Building Centre for cost Effective Building Materials & Techniques

(Sponsored by HUDCO - Govt .of India & Govt of Kerala)

Phone :0490-2342729

CONSTRUCTION OF BUILDING FOR	
RENOVATION AND UPGRADATION OF ACADEMIC BUILDING OF P K M COLLEGE OF EDUCATION , MADAMBAM , SREEKANDAPURAM UNDER STATE PROJECT DIRECTORATE RUSA	
SUMMERY OF ESTIMATE	
DESCRIPTION	AMOUNT
TOTAL ESTIMATE AMOUNT FOR CIVIL WORKS	₹ 37,59,705.00
TOTAL ESTIMATE AMOUNT FOR ELECTRIFICATION WORK	₹ 22,50,000.00
TOTAL	₹ 60,09,705.00
ADD CENTAGE CHARGE @ 6%	₹ 3,60,582.30
ADD G S T FOR WORKS @ 18 %	₹ 10,81,746.90
ADD G S T FOR CENTAGE CHARGES @12%	₹ 43,269.88
TOTAL	₹ 74,95,304.08
UNFORESEEN ITEMS IF ANY	₹ 4,695.92
GRAND TOTAL	₹ 75,00,000.00

RUPEES SEVENTY FIVE LAKHS


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENG.
NIRMITHI KENDRA
KANNUR

PRICE

EST NO:2019/7867

**RENOVATION AND UPGRADATION OF ACADEMIC BUILDING OF P K
M COLLEGE OF EDUCATION , MADAMBAM , SREEKANDAPURAM UNDER
STATE PROJECT DIRECTORATE RUSA**

Detailed Estimate

(Dsr year: 2016, Cost Index Applied for this estimate is 32.04%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 RENOVATION								
1	15.10.1 Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually / by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge: In lime mortar							
	toilet ground floor	1	2.400	0.200	2.400		1.152	
	do	1	1.900	0.200	2.400		0.912	
	G F landing level toilet	1	1.780	0.200	2.400		0.855	
	do	1	1.350	0.200	2.400		0.648	
	do	1	1.900	0.200	2.400		0.912	
	do	1	1.540	0.200	2.400		0.740	
	Total Quantity						5.219 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						5.219 cum	
	Say 5.219 cum @ Rs 740.08 / cum						Rs 3862.48	
2	15.39.1 Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking with in 50 metres lead: Upto 10 mm thick							
	partition	1	4.300		1.900		8.170	
	do	2	1.800		1.900		6.840	
	do	1	5.600		2.400		13.440	
	Total Quantity						28.450 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						28.450 sqm	
	Say 28.450 sqm @ Rs 32.03 / sqm						Rs 911.25	
3	15.23.1 Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm							
	toilet	2	1.900	1.100			4.180	
	passage	1	2.320	2.400			5.568	

	wash	1	2.880	2.400			6.912	
	toilet	2	1.500	1.150			3.450	
	do	1	1.400	1.100			1.540	
	do	1	2.150	1.300			2.795	
	do	1	1.580	1.150			1.817	
	do	1	1.700	1.360			2.313	
	do	2	1.560	1.130			3.526	
	wall	2	4.680	1.500			14.040	
	Total Quantity						46.141 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						46.141 sqm	
	Say 46.141 sqm @ Rs 38.94 / sqm						Rs 1796.73	
4	15.28.2 Dismantling roofing including ridges, hips, velleys and gutters etc., and stacking the material within 50 metres lead of :Asbestos Sheet							
	Roof	1	46.250	12.630			584.138	
	Total Quantity						584.138 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						584.138 sqm	
	Say 584.138 sqm @ Rs 40.55 / sqm						Rs 23686.80	
5	od56051/2019_2020 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 Pincoda wood							
	Door D	2*1	1.100	0.080	0.100		0.018	
	Do	2*2	2.110	0.080	0.100		0.068	
	Total Quantity						0.086 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.086 cum	
	Say 0.086 cum @ Rs 111831.80 / cum						Rs 9617.53	
6	od56052/2019_2020 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 Pincoda wood.							

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	Door D	2	0.860		2.030		3.492	
	Total Quantity						3.492 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						3.492 sqm	
	Say 3.492 sqm @ Rs 2736.26 / sqm						Rs 9555.02	
7	od56053/2019_2020 Providing and fixing paneling or paneling and glazing in paneled or paneled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inerts excluding portion inside grooves or rebates to be measured). Paneling for paneled or paneled and glazed shutters 25 mm to 40 mm thick using good quality Pincoda wood							
	Door D	2*4	0.250	0.850			1.700	
	Total Quantity						1.700 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1.700 sqm	
	Say 1.700 sqm @ Rs 2593.17 / sqm						Rs 4408.39	
8	21.1.1.2 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing paneling and dash fasteners to be paid for separately).For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)							
	staff room partition	2	10.000		1.500	2.0	60.000	assuming 2Kg/m2
	do	6	2.300		1.500	2.0	41.400	
	office room	2	9.600		1.500	2.0	57.600	
	do	6	2.300		1.500	2.0	41.400	
	second floor	2	2.750		2.900	2.0	31.900	
	project room	1	5.860		2.100	2.0	24.613	
	do	1	4.010		2.100	2.0	16.842	
	do	1	1.900		2.100	2.0	7.980	
	window seminar hall	4	2.000		1.500	2.0	24.000	
	Deductions							
	Door	20	0.900		1.500	2.0	-54.000	

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	do	3	0.900		2.100	2.0	-11.340	
	Total Quantity						305.735 kg	
	Total Deducted Quantity						-65.340 kg	
	Net Total Quantity						240.395 kg	
	Say 240.395 kg @ Rs 474.58 / kg						Rs 114086.66	
9	21.1.2.2 For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/ neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)							
	Door	20	1.000		1.500	2.2	66.000	assume 2.2Kg/m3
	do	3	0.900		2.100	2.2	12.474	
	Window W3	4	2.000		1.500	2.2	26.401	
	Total Quantity						104.875 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						104.875 kg	
	Say 104.875 kg @ Rs 549.20 / kg						Rs 57597.35	
10	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness							
	Door	3	0.900		0.900		2.430	
	Window	4	2.000		1.500		12.000	
	Total Quantity						14.430 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						14.430 sqm	
	Say 14.430 sqm @ Rs 915.22 / sqm						Rs 13206.62	
11	od56054/2019_2020 Providing and fixing 9mm thick prelaminated particle board, in panelling fixed in aluminium doors, windows shutters and partition frames with C P brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. 							
	staff room partition	2	10.000		1.500	2.0	60.000	assuming 2Kg/m2
	do	6	2.300		1.500	2.0	41.400	
	office room	2	9.600		1.500	2.0	57.600	

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	do	6	2.300		1.500	2.0	41.400	
	second floor	2	2.750		2.900	2.0	31.900	
	project room	1	5.860		2.100	2.0	24.613	
	do	1	4.010		2.100	2.0	16.842	
	do	1	1.900		2.100	2.0	7.980	
	window seminar hall	4	2.000		1.500	2.0	24.000	
	Deductions							
	Door	3	0.900		0.900		-2.430	
	Window	4	2.000		1.500		-12.000	
	Total Quantity						305.735 sqm	
	Total Deducted Quantity						-14.430 sqm	
	Net Total Quantity						291.305 sqm	
	Say 291.305 sqm @ Rs 779.45 / sqm						Rs 227057.68	
12	50.10.1 Steel work in built up G I tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete							
	rafters 100 x 50 mm	14	6.000			3.59	301.560	
	stage side	6	3.500			3.59	75.390	
	do	24	1.200			3.59	103.392	
	Total Quantity						480.342 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						480.342 kg	
	Say 480.342 kg @ Rs 123.61 / kg						Rs 59375.07	
13	50.10.2 Steel work for purlin/single section with G I pipes including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete							
	Purlins 50 x 50 mm pipe	17	46.250			1.85	1454.563	
	Total Quantity						1454.563 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1454.563 kg	
	Say 1454.563 kg @ Rs 100.66 / kg						Rs 146416.31	
14	od56055/2019_2020							

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	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.35 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.						
	Roof	1	46.250	12.630		584.138	
	Total Quantity						584.138 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						584.138 sqm
	Say 584.138 sqm @ Rs 638.11 / sqm						Rs 372744.30
15	50.6.5.2 Hollow block masonry using pre cast blocks (Factory made) of size 40x20x15cm or nearest available size conforming to IS 2185 part 1 of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 (1 cement : 6 coarse sand) etc complete						
	toilet partition	1	4.440	0.150	2.700	1.799	
	do	2	1.300	0.150	2.700	1.054	
	toilet at library	1	1.780	0.150	2.700	0.721	
	maths lab	3	2.900	0.150	2.700	3.524	
	Door D2	3	0.800	0.150	2.100	-0.756	
	Total Quantity						7.098 cum
	Total Deducted Quantity						-0.756 cum
	Net Total Quantity						6.342 cum
	Say 6.342 cum @ Rs 4616.51 / cum						Rs 29277.91
16	13.4.1 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)						
	toilet wall	2	4.440		2.700	23.977	
	do	3	1.300		2.700	10.531	
	library toilet	2	1.780		2.700	9.612	
	maths lab	6	2.900		2.700	46.981	
	connection passage	4	6.000		2.200	52.801	
	Deductions						
	Door D	3	0.800		2.100	-5.040	
	Total Quantity						143.902 sqm

	Total Deducted Quantity					-5.040 sqm		
	Net Total Quantity					138.862 sqm		
	Say 138.862 sqm @ Rs 223.22 / sqm					Rs 30996.78		
17	od56056/2019_2020 (Derived from 9.118.1) Providing and fixing to existing door frames 24 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 joining 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 PVC 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 PVC 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 joining 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).							
	Door D2	4	0.800		2.100		6.721	
	Total Quantity					6.721 sqm		
	Total Deducted Quantity					0.000 sqm		
	Net Total Quantity					6.721 sqm		
	Say 6.721 sqm @ Rs 1633.89 / sqm					Rs 10981.37		
18	od56057/2019_2020 (Derived from 9.117.1) Providing and fixing factory made PVC door frame made of PVC extruded sections having an overall dimension as below (tolerance 1 mm), with wall thickness 2.0mm (0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm							
	Door D2	4	5.000				20.000	
	Total Quantity					20.000 metre		
	Total Deducted Quantity					0.000 metre		
	Net Total Quantity					20.000 metre		
	Say 20.000 metre @ Rs 168.52 / metre					Rs 3370.40		
19	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.							

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	toilet walls	3	4.900	1.800		26.460	
	passage	1	14.300	1.800		25.741	
	toilet library	1	4.800	1.800		8.640	
	toilet office	2	5.120	1.800		18.433	
	Total Quantity					79.274 sqm	
	Total Deducted Quantity					0.000 sqm	
	Net Total Quantity					79.274 sqm	
	Say 79.274 sqm @ Rs 919.30 / sqm					Rs 72876.59	
20	11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of Ist quality conforming to IS: 15622 of approved make in all colours, shades, except 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 pigments etc., complete.						
	toilets	3	1.280	1.300		4.993	
	passage	1	4.440	1.600		7.105	
	toilet	1	1.500	1.200		1.800	
	do	2	1.150	1.530		3.519	
	Total Quantity					17.417 sqm	
	Total Deducted Quantity					0.000 sqm	
	Net Total Quantity					17.417 sqm	
	Say 17.417 sqm @ Rs 1112.15 / sqm					Rs 19370.32	
21	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, 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. Size of Tile 600 x 600 mm.						
	staff room	2	10.670	6.200		132.308	
	do	1	7.510	6.200		46.562	
	do	2	7.510	6.200		93.124	
	kitchen	1	2.670	2.650		7.076	
	class room	2	7.510	6.200		93.124	
	do	1	16.500	6.200		102.300	
	Total Quantity					474.494 sqm	
	Total Deducted Quantity					0.000 sqm	
	Net Total Quantity					474.494 sqm	

		Say 474.494 sqm @ Rs 1381.66 / sqm				Rs 655589.38	
22	26.26.1 Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC 0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long drywall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.						
	ceiling	2	21.500	10.230		439.891	
	Total Quantity					439.891 sqm	
	Total Deducted Quantity					0.000 sqm	
	Net Total Quantity					439.891 sqm	
	Say 439.891 sqm @ Rs 1669.87 / sqm					Rs 734560.78	
23	13.43.1 Other Engineering Organisations Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer						
	staff room G F	1	37.200		4.000	148.800	
	class room	1	24.400		4.000	97.600	
	stair room	1	24.780		4.000	99.120	
	class room	2	24.400		4.000	195.200	
	do	1	37.200		4.000	148.800	
	verandah	1	100.600		4.000	402.400	
	passage	1	56.200		4.000	224.800	
	store	1	11.940		2.400	28.656	
	toilet	2	5.220		2.400	25.056	
	kitchen	1	9.720		2.400	23.328	
	toilet	3	5.400		2.400	38.880	
	passage	1	9.600		2.400	23.040	
	office	2	21.200		2.400	101.760	

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passage	1	56.200	2.400	134.880
guest	1	14.800	2.400	35.520
toilet	2	6.660	2.400	31.968
class room	2	24.600	3.600	177.120
project	1	18.400	3.600	66.240
class room	1	48.300	3.600	173.880
passage	1	56.200	3.600	202.321
computer	1	22.480	3.600	80.928
room	1	31.000	3.600	111.601
do	1	18.600	3.600	66.961
do	1	14.200	3.600	51.120
stair room	1	28.800	3.600	103.680
principal	1	24.980	3.600	89.928
hall	1	57.860	3.600	208.296
class room	1	38.240	3.600	137.665
do	1	32.600	3.600	117.361
green room	1	14.320	3.600	51.552
toilet	1	19.800	3.600	19.800
do	1	5.100	3.600	18.360
do	1	6.300	3.600	22.680
outer wall	1	55.550	12.200	677.710
do	1	13.250	12.200	161.650
do	1	27.200	6.850	186.320
Deduction				
door D	19	1.200	2.100	-47.880
Door D1	9	1.000	2.100	-18.900
Door D2	12	0.800	2.100	-20.160
Window W3	48	1.500	1.500	-108.000
w2	4	1.000	1.500	-6.000
Ventilator V	9	0.600	0.450	-2.430
verandah opening	11	4.200	2.700	-124.740
Total Quantity				4484.981 sqm
Total Deducted Quantity				-328.110 sqm

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	Net Total Quantity						4156.871 sqm
	Say 4156.871 sqm @ Rs 45.61 / sqm						Rs 189594.89
24	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work						
	area as per item no 23	1	4156.8711				4156.872
	Total Quantity						4156.872 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						4156.872 sqm
	Say 4156.872 sqm @ Rs 104.24 / sqm						Rs 433312.34
25	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						
	door D	19	1.200		2.100		47.880
	Door D1	9	1.000		2.100		18.901
	Door D2	12	0.800		2.100		20.161
	Window W3	48	1.500		1.500		108.000
	w2	4	1.000		1.500		6.000
	Vvntlator V	9	0.600		0.450		2.430
	verandah opening	11	4.200		2.700		124.741
	Total Quantity						328.113 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						328.113 sqm
	Say 328.113 sqm @ Rs 96.77 / sqm						Rs 31751.50
26	2.6.1 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.All kinds of soil						
	for foundation footing	4	1.500	1.500	1.500		13.500
	Total Quantity						13.500 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						13.500 cum
	Say 13.500 cum @ Rs 155.46 / cum						Rs 2098.71
27	2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation						

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	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 soil as directed, within a lead of 50 m. All kinds of soil						
	foundation	4	1.500	0.600	0.600		2.160
	Total Quantity						2.160 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						2.160 cum
	Say 2.160 cum @ Rs 205.39 / cum						Rs 443.64
28	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)						
	footing bed	4	1.500	1.500	0.100		0.900
	Total Quantity						0.900 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						0.900 cum
	Say 0.900 cum @ Rs 5527.32 / cum						Rs 4974.59
29	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)						
	footing bed block	4	1.500	1.500	0.200		1.800
	haunge	4		1.550	0.500		3.100
	neck column	4	0.300	0.300	0.700		0.252
	Total Quantity						5.152 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						5.152 cum
	Say 5.152 cum @ Rs 7671.53 / cum						Rs 39523.72
30	5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
	columns G F	4	0.250	0.250	3.800		0.950
	do F F	4	0.250	0.250	3.300		0.825
	Total Quantity						1.775 cum

		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					1.775 cum	
		Say 1.775 cum @ Rs 8819.97 / cum					Rs 15655.45	
31	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 ⁰ landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).							
	Beam	3*2	6.000	0.250	0.300		2.700	
	do	3*3	2.400	0.250	0.300		1.620	
	slab	2	2.800	6.000	0.120		4.032	
		Total Quantity					8.352 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					8.352 cum	
		Say 8.352 cum @ Rs 9122.37 / cum					Rs 76190.03	
32	5.9.3 Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform							
	slab	2	2.800	6.000			33.600	
		Total Quantity					33.600 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					33.600 sqm	
		Say 33.600 sqm @ Rs 521.24 / sqm					Rs 17513.66	
33	5.9.5 Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Beams	3*2	6.000	0.850			30.600	
	do	3*3	2.400	0.850			18.360	
		Total Quantity					48.960 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					48.960 sqm	
		Say 48.960 sqm @ Rs 423.24 / sqm					Rs 20721.83	
34	5.9.6 Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts							
	columns G F	4	0.250	1.000			1.000	

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	do F F	4	0.250	1.000			1.000	
	Total Quantity						2.000	sqm
	Total Deducted Quantity						0.000	sqm
	Net Total Quantity						2.000	sqm
	Say 2.000 sqm @ Rs 577.46 / sqm						Rs 1154.92	
35	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							
	footing bed block	4	1.500	1.500	0.200	80.0	144.000	
	haunge	4		1.550	0.500	80.0	248.000	
	neck column	4	0.300	0.300	0.700	80.0	20.160	
	columns G F	4	0.250	0.250	3.800	100.0	95.000	
	do F F	4	0.250	0.250	3.300	100.0	82.500	
	Beam	3*2	6.000	0.250	0.300	100.0	270.000	
	do	3*3	2.400	0.250	0.300	100.0	162.000	
	slab	2	2.800	6.000	0.120	100.0	403.200	
	Total Quantity						1424.860	kilogram
	Total Deducted Quantity						0.000	kilogram
	Net Total Quantity						1424.860	kilogram
	Say 1424.860 kilogram @ Rs 69.86 / kilogram						Rs 99540.72	
36	od56058/2019_2020 Laterate masonry with neatly dressed laterate stone of size 35x20x20cm or nearest size in cement mortar 1:6 for foundation and basement including all cost of materials, labour charges etc.							
	foundation							
	foundation	4	2.750	0.600	0.600		3.960	
	basement	2	2.750	0.350	0.450		-0.866	
	Total Quantity						3.960	cum
	Total Deducted Quantity						-0.866	cum
	Net Total Quantity						3.094	cum
	Say 3.094 cum @ Rs 4701.99 / cum						Rs 14547.96	
37	od56059/2019_2020 Laterate masonry with neatly dressed laterate stone of size35x202x20cm 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.(Derived From D S R 50.6.7.2)							
	side wall	8	2.750	0.200	1.000		4.400	

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		Total Quantity					4.400 cum		
		Total Deducted Quantity					0.000 cum		
		Net Total Quantity					4.400 cum		
		Say 4.400 cum @ Rs 5163.84 / cum					Rs 22720.90		
38	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.								
	passage	1	6.000	2.450	0.370		5.439		
		Total Quantity					5.439 cum		
		Total Deducted Quantity					0.000 cum		
		Net Total Quantity					5.439 cum		
		Say 5.439 cum @ Rs 155.21 / cum					Rs 844.19		
39	50.13.1 9 mm cement plastering of mix : 1:3 (1 cement : 3 fine sand) including all cost of materials, labour charges etc complete								
	passage ceiling	2	6.000	2.800			33.600		
		Total Quantity					33.600 sqm		
		Total Deducted Quantity					0.000 sqm		
		Net Total Quantity					33.600 sqm		
		Say 33.600 sqm @ Rs 199.46 / sqm					Rs 6701.86		
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
2 PLUMBING AND SANITORY ARRANGEMENTS									
1	17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid								
	toilet	8					8.000		
		Total Quantity					8.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					8.000 each		
		Say 8.000 each @ Rs 4219.66 / each					Rs 33757.28		
2	17.7.3 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls								

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	wherever require:White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps						
	wash basin	8				8.000	
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 2586.20 / each						Rs 20689.60
3	17.31 Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.						
	toilets	8				8.000	
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 1009.59 / each						Rs 8076.72
4	18.51.1 Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.15 mm nominal bore						
	toilets	8				8.000	
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 607.95 / each						Rs 4863.60
5	18.53.1 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 893115 mm nominal bore						
	angle cock	24				24.000	
	Total Quantity						24.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						24.000 each
	Say 24.000 each @ Rs 587.15 / each						Rs 14091.60
6	50.18.8.2.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20 mm pipe 10 Kg/ cm ²						

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	water supply	1	46.000				46.000	
	Total Quantity						46.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						46.000	metre
	Say 46.000 metre @ Rs 258.41 / metre						Rs 11886.86	
7	50.18.8.4.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 32 mm pipe 10Kgf/cm2							
	water supply	1	64.000				64.000	
	Total Quantity						64.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						64.000	metre
	Say 64.000 metre @ Rs 307.81 / metre						Rs 19699.84	
8	50.18.8.7.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the wall etc. 63 mm pipe 6 Kgf/cm2							
	waste pipe	1	32.000				32.000	
	Total Quantity						32.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						32.000	metre
	Say 32.000 metre @ Rs 433.09 / metre						Rs 13858.88	
9	50.18.8.9.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chased and making good the wall etc. 110 mm pipe 6kgf/cm2							
	sewage	1	32.000				32.000	
	Total Quantity						32.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						32.000	metre
	Say 32.000 metre @ Rs 539.08 / metre						Rs 17250.56	
10	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching,							

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	refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm2						
	sewage and waste	1	30.000				30.000
	Total Quantity						30.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						30.000 metre
	Say 30.000 metre @ Rs 401.96 / metre						Rs 12058.80
11	50.18.9.20.1 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Elbow						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 62.57 / no						Rs 500.56
12	50.18.9.20.3 Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Door Elbow						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 69.63 / no						Rs 557.04
13	50.18.9.20.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 68.56 / no						Rs 548.48
14	50.18.9.20.6 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement -63x63x63 mm dia Door Tee						
	sewage and waste	8					8.000
	Total Quantity						8.000 no

PRICE

EST NO:2019/7867

	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 82.13 / no						Rs 657.04
15	50.18.9.20.7 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 65.85 / no						Rs 526.80
16	50.18.9.20.8 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia End cap						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 50.60 / no						Rs 404.80
17	50.18.9.22.1 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 94.32 / no						Rs 754.56
18	50.18.9.22.3 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement-110 mm dia Door Elbow						
	sewage and waste	8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 117.13 / no						Rs 937.04

PRICE

EST NO:2019/7867

19	50.18.9.22.4 Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend							
	sewage and waste	8					8.000	
	Total Quantity						8.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						8.000 no	
	Say 8.000 no @ Rs 144.29 / no						Rs 1154.32	
20	50.18.9.22.6 Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110x110x110 mm dia Door tee							
	sewage and waste	4					4.000	
	Total Quantity						4.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 168.77 / no						Rs 675.08	
21	50.18.9.22.8 Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl							
	Other Engineering Organisations						2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 109.51 / no						Rs 219.02	
22	18.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank :ISI 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.							
	water tank	1	2000.000				2000.000	
	Total Quantity						2000.000 Litre	
	Total Deducted Quantity						0.000 Litre	
	Net Total Quantity						2000.000 Litre	
	Say 2000.000 Litre @ Rs 8.95 / Litre						Rs 17900.00	
	GST @						0.0%	
	GST Amount						0.00	

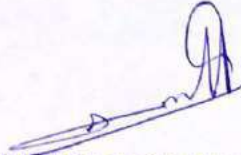
PRICE

EST NO:2019/7867

Total with GST Amount	3759705.00
Lumpsum for round off	0.00
TOTAL Rs 3759705.00	
Rounded Total Rs 37,59,705	
Rupees Thirty Seven Lakh Fifty Nine Thousand Seven Hundred and Five Only	

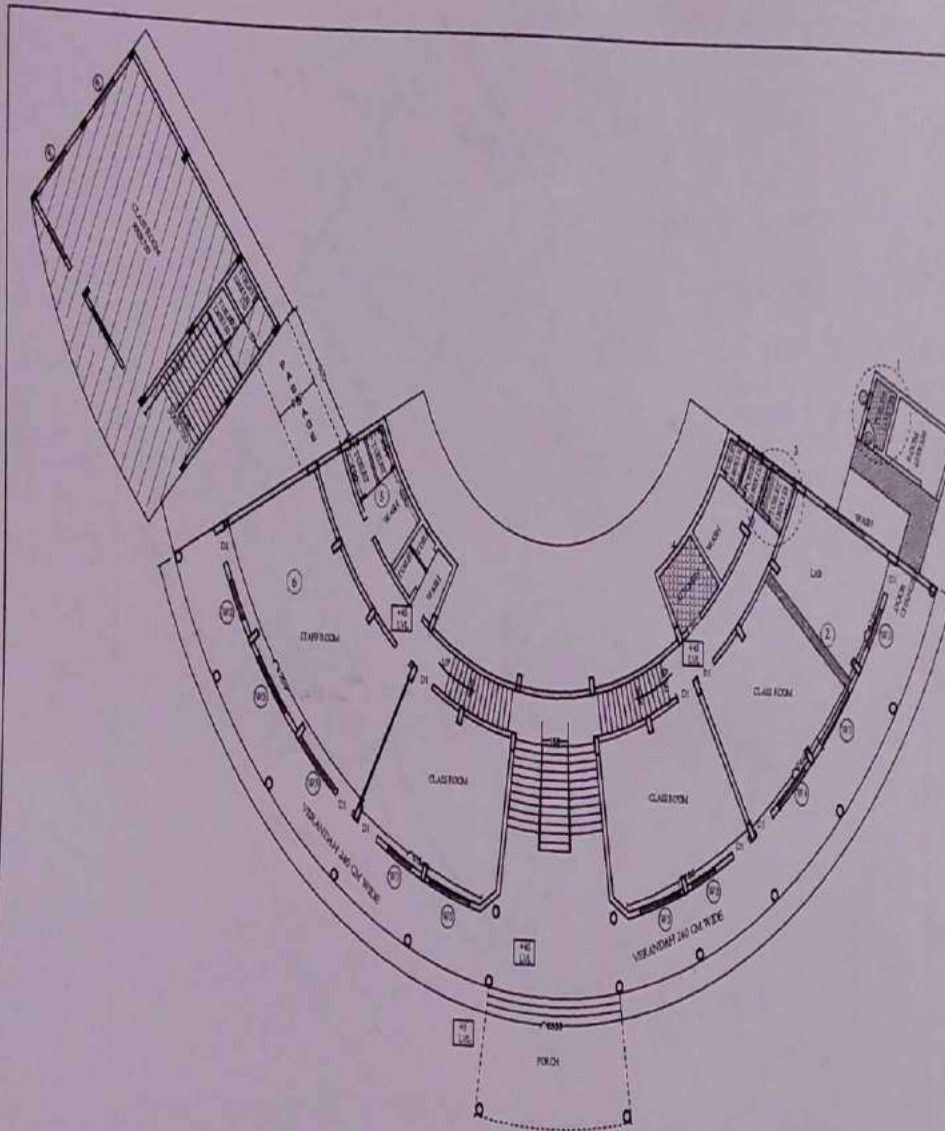
(Cost Index Applied for this estimate is 32.04%)

Note : Rate adopted are exclusive of Contractors Profit.


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR

Other Engineering Organisations
PRICE



GROUND FLOOR PLAN

INDEX

D	DOOR	120 X 210
W2	WINDOW	110 X 140
W3	WINDOW	150 X 140

1. Toilet change to better for toilet
2. Remove old partition wall
3. Window to be made wider the length
4. Kitchen etc. being
5. Toilet demolishing
6. Room change to wall room with aluminum partition for wall

NEW CONSTRUCTION

SCALE 1:100
ALL DIM IN CM

PROJECT

P.K.M. COLLEGE
MADAMBAM

DRG. NO. EDU / 1

LOC : SREEKANAPURAM

DEALT :



SCALE 1:100

DATE : 20-MAY-2018

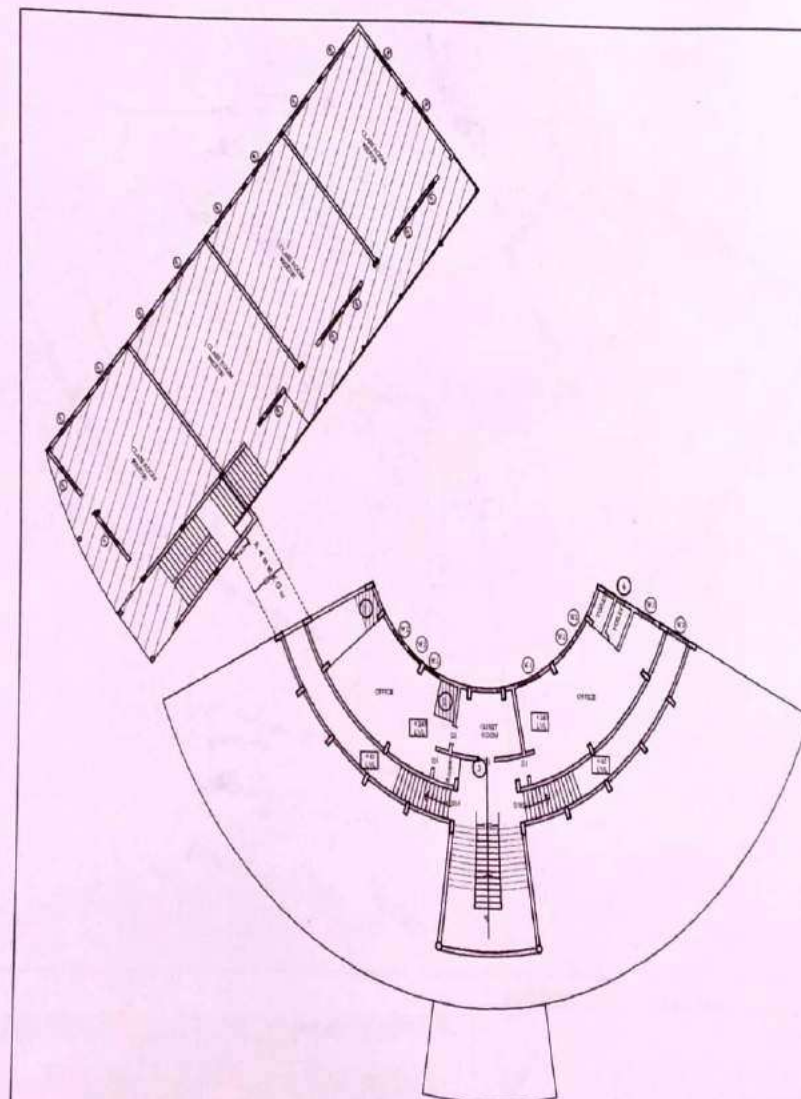
DIST NIRMITHI KENDRA

KANNUR



PROPOSED RENOVATION AND UPGRADATION TO THE ACADEMIC BUILDING OF
P.K.M. COLLEGE OF EDUCATION, MADAMBAM, SREEKANAPURAM, KANNUR DISTRICT

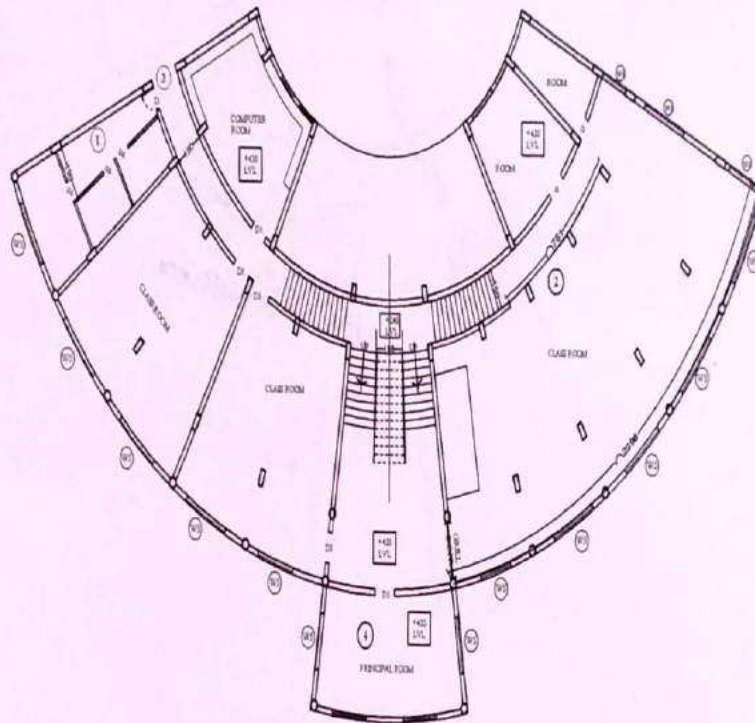
SITE ENGINEER	ASST. ARCHITECT	PROJECT ENGINEER
NIRMITHI KENDRA	NIRMITHI KENDRA	NIRMITHI KENDRA
KANNUR	KANNUR	KANNUR



GROUND FLOOR PLAN
(LANDING LAYOUT)

PROPOSED RENOVATION AND UPGRADATION TO THE ACADEMIC BUILDING OF
P.K.M COLLEGE OF EDUCATION, MADAMBAM, SREEKANANTHAPURAM, KANNUR DISTRICT

INDEX	
D	DOOR 130 X 210
W2	WINDOW 110 X 140
W3	WINDOW 150 X 140
1. Toilet (including in site area)	
2. Guest room (separate)	
3. Toilet (separate)	
SITE ENGINEER	
NIRMITHI KENDRA KANNUR	
ARCHITECT	
PROJECT ENGINEER	
PROJECT ENGINEER	
PROJECT	
P.K.M COLLEGE MADAMBAM	
DRG. NO. EDU/1	
LOC. SREEKANANTHAPURAM	
DEALT	
NORTH	
SCALE 1:100	
DATE : 20-MAY-2018	
DIST. NIRMITHI KENDRA KANNUR	



FIRST FLOOR PLAN

INDEX

D	DOOR	120 X 210
W2	WINDOW	110 X 140
W3	WINDOW	150 X 140

1. Partition work, 240 cm height
2. Partition work in Psychology room to Project office corner
3. Door opening from old building to new building
3. principal room change to chapel

SCALE 1:100
ALL DIM IN CM

PROJECT

P.K.M. COLLEGE
MADAMBAM

DRG. NO. EDU /3

LOC : SREEKANDAPURAM

DEALT :



SCALE 1:100

DATE : 20-MAY-2018

DIST. NIRMITHI KENDRA
KANNUR



PROPOSED RENOVATION AND UPGRADATION TO THE
ACADEMIC BUILDING OF
P.K.M. COLLEGE OF EDUCATION, MADAMBAM,
SREEKANDAPURAM, KANNUR DISTRICT

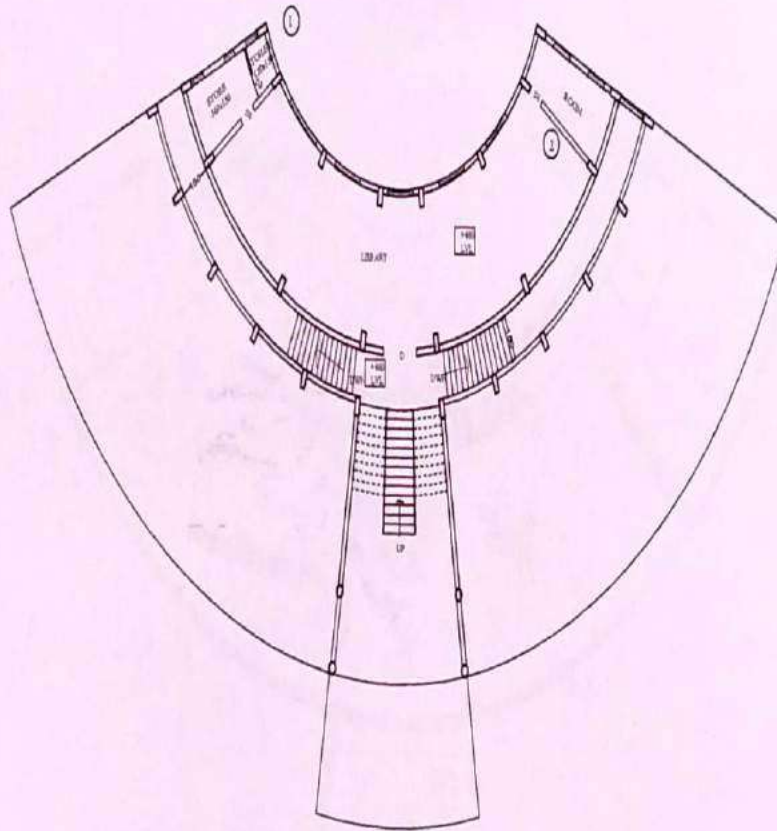
SITE ENGINEER

ASST. ARCHITECT

PROJECT ENGINEER

[Signature]
SITE ENGINEER
NIRMITHI KENDRA
KANNUR

[Signature]
PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR



FIRST FLOOR PLAN
(LANDING LEVEL)

INDEX

D	DOOR	120 X 210
V2	WINDOW	110 X 140
V3	WINDOW	150 X 180

1. New Toilet in stage room
2. partition work

SCALE 1:100
ALL DIMS IN CM

PROJECT

P.K.M COLLEGE
MADAMPAM

DRG. NO. EDU /4

LOC : SREEKANDAPURAM

DEALT :



SCALE 1:100

DATE : 20-MAY-2018

DIST. NIRMITHI KENDRA

KANNUR



PROPOSED RENOVATION AND UPGRADATION TO THE
ACADEMIC BUILDING OF
P.K.M. COLLEGE OF EDUCATION, MADAMPAM,
SREEKANDAPURAM, KANNUR DISTRICT

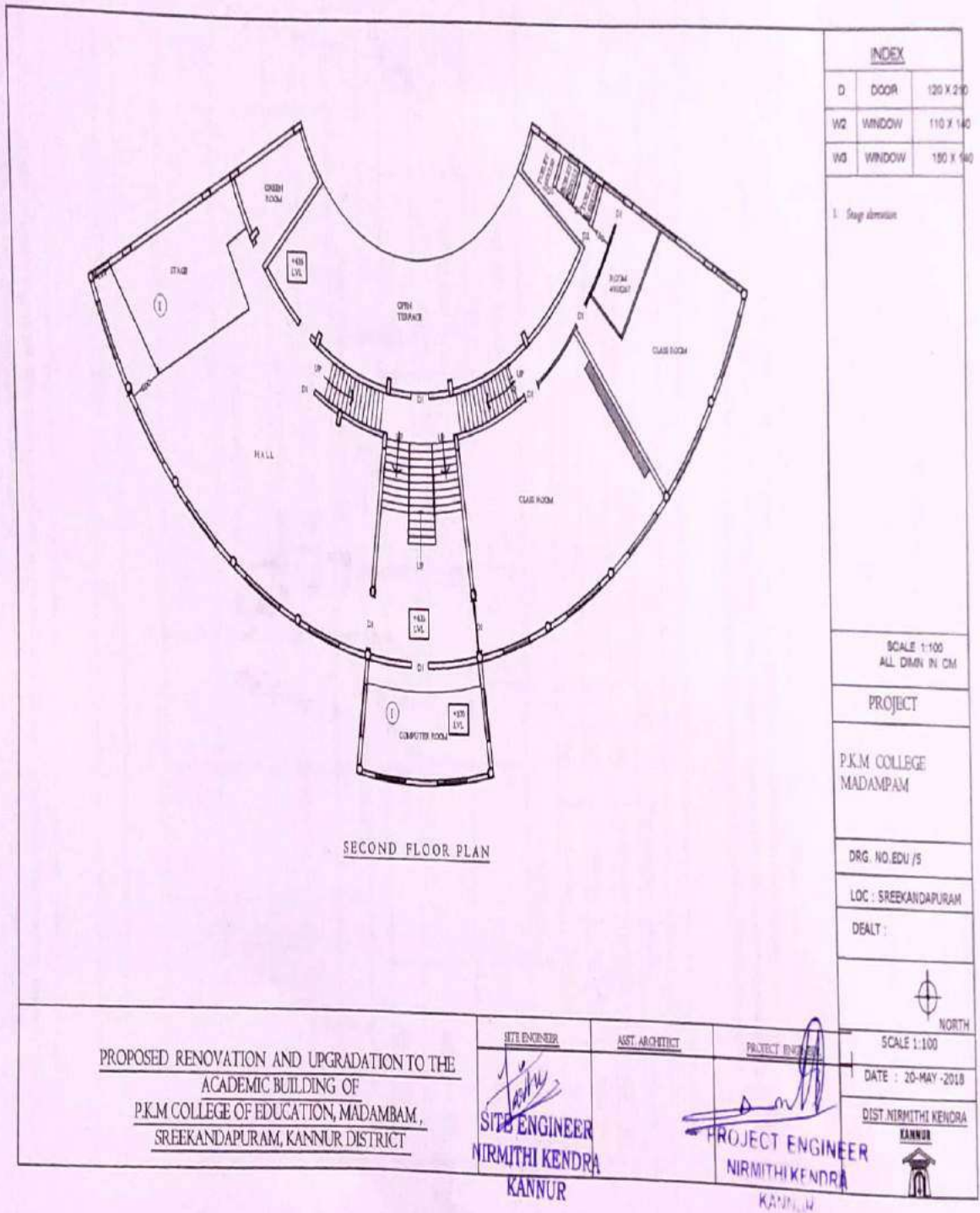
SITE ENGINEER

ASST. ARCHITECT

PROJECT ENGINEER

[Signature]
SITE ENGINEER
NIRMITHI KENDRA
KANNUR

[Signature]
PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR



Data Analysis

RENOVATION
1 Specification Code: od56051/2019_2020

od56051/2019_2020 :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 Pincoda wood

Details of cost for 0.036 cum

MATERIALS:

Code	Description	Unit	Quantity	Rate	Amount
MR	Pincoda wood scantls 	cum	0.03800	85000.00	3230.00
0156	Carpenter (average) 	Day	0.72000	467.00	336.24
0114	Beldar 	Day	0.07000	368.00	25.76
TOTAL					3592.00
	cost for 0.036 cum				3592.00
	cost for one cum				99777.78
	say				99777.78

	Add Water Charges @ 1.0%				997.77
	Add CPOH @ 7.5%				7558.16
	Cost index 32.04 %				3498.07
	Total with Cost index				111831.80
	Say				111831.80

2 Specification Code: od56052/2019_2020

od56052/2019_2020 :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 Pincoda wood.

Details of cost for 2.16 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	Pincoda wood scantls 	cum	0.04400	85000.00	3740.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm 	10 nos	6.00000	85.00	51.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm 	10 nos	2.00000	50.00	10.00
0637	Bright finished or black enameled mild steel screws 40 mm 	100 nos	48.00000	63.00	30.24
0640	Bright finished or black enameled mild steel screws 20 mm 	100 nos	8.00000	32.00	2.56
0156	Carpenter (average) 	Day	1.83000	467.00	854.61
0114	Beldar 	Day	0.76000	368.00	279.68
9999	Sundries 	L.S	35.88000	1.73	62.07
TOTAL					5030.16
	cost for 2.16 sqm				5030.16
	cost for one sqm				2328.78
	say				2328.78

	Add Water Charges @ 1.0%				23.28
	Add CPOH @ 7.5%				176.40
	Cost index 32.04 %				207.78
	Total with Cost index				2736.26
	Say				2736.26

3 Specification Code: od56053/2019_2020

PRICE

EST NO:2019/7867

od56053/2019_2020 :Providing and fixing paneling or paneling and glazing in paneled or paneled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inerts excluding portion inside grooves or rebates to be measured). Paneling for paneled or paneled and glazed shutters 25 mm to 40 mm thick using good quality Pincoda wood

Details of cost for 0.66 Sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	Pincoda wood planks 	cum	0.01290	93000.00	1199.70
0111	Carpender Ist Class 	Day	0.57000	487.00	277.59
9999	Sundries 	L.S	4.42000	1.73	7.65
TOTAL					1484.94
	cost for 0.66 sqm				1484.94
	cost for one sqm				2249.90
	say				2249.90

	Add Water Charges @ 1.0%				22.49
	Add CPOH @ 7.5%				170.42
	Cost index 32.04 %				150.34
	Total with Cost index				2593.17
	Say				2593.17

4 Specification Code: od56054/2019_2020

od56054/2019_2020 :Providing and fixing 9mm thick prelaminated particle board, in panelling fixed in aluminium doors, windows shutters and partition frames with C P brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.

Details of cost for 7 sqm

MATERIAL:

9mm thick particle board = 7.00 sqm. +

Add wastage @ 5% = 0.35 sqm

Totall = 7.35 sqm

PRICE

EST NO:2019/7867

Code	Description	Unit	Quantity	Rate	Amount
MR	Prelaminated particle board with both side decorative lamination, 9 mm thick	sqm	7.35000	532.60	3914.61
9977	Carriage	L.S	13.52000	1.73	23.39
9999	Sundries and screwsLABOUR:	L.S	26.91000	1.73	46.55
0112	Carpenter 2nd class	Day	0.90000	448.00	403.20
0114	Beldar	Day	1.00000	368.00	368.00
TOTAL					4755.75
	cost for 7.0 sqm				4755.75
	cost for one sqm				679.39
	say				679.39

	Add Water Charges @ 1.0%				6.79
	Add CPOH @ 7.5%				51.46
	Cost index in 32.04% Organisations				41.80
	Total with Cost index				779.45
	Say				779.45

5 Specification Code: od56055/2019_2020

od56055/2019_2020 :Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.35 mm (+0.05%), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Details of cost for 216.14 sqm

MATERIAL:

(External dimension of plinth).

Area of roof

PRICE

EST NO:2019/7867

20.2x10.70 m = 216.14 sqm.

MATERIAL:

Sheets used = 20 Nos x 10.70m x 1.06m = 226.84 sqm

Add 3% wastage = 6.81

Total = 233.65 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	Precoated galvanized iron profile sheet 0.35 mm TCT	sqm	233.65000	460.00	107479.00
9999	Sundries Carriage of sheets	L.S	104.00000	1.73	179.92
1023	Galvanized steel J or L hooks 8 mm dia	10 nos	476.00000	115.00	5474.00
1208	Bitumen washer	100 nos	476.00000	30.00	142.80
1209	G.I. Plain washer thick	100 nos	476.00000	35.00	166.60
9977	Carriage of bolts and nuts, washers etc.	L.S	8.06000	1.73	13.94
9999	Sundries LABOUR:	L.S	39.52000	1.73	68.37
0130	Mistry	Day	2.34000	487.00	1139.58
0112	Carpenter 2nd class	Day	9.34000	448.00	4184.32
0114	Beldar	Day	9.34000	368.00	3437.12
Other Engineering Organisations TOTAL					122285.65
	cost for 216.14 sqm				122285.65
	cost for one sqm				565.77
	say				565.77

	Add Water Charges @ 1.0%				5.65
	Add CPOH @ 7.5%				42.85
	Cost index 32.04 %				23.82
	Total with Cost index				638.11
	Say				638.11

6 Specification Code: od56056/2019_2020

od56056/2019_2020 : (Derived from 9.118.1) Providing and fixing to existing door frames 24 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 joining 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 PVC 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 PVC 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 joining 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).

Details of cost for one door shutter

2.2x1.08m = 2.38 sqm

MATERIAL:

Code	Description	Unit	Quantity	Rate	Amount
MR	24 mm thick Factory made shutters with styles, rails and panels of PVC extruded sections in white, grey or wooden finish LABOUR:	sqm	2.38000	1300.00	3094.00
0156	Carpenter (average)	Day	0.40000	467.00	186.80
0114	Beldar	Day	0.40000	368.00	147.20
9999	Sundries	L.S	20.36000	1.73	35.22
TOTAL					3463.22
	cost for 2.38 sqm				3463.22
	cost for one sqm				1455.14
	say				1455.14

	Add Water Charges @ 1.0%				14.55
	Add CPOH @ 7.5%				110.22
	Cost index 32.04 %				53.96
	Total with Cost index				1633.89
	Say				1633.89

PRICE

EST NO:2019/7867

7 Specification Code: od56057/2019_2020

od56057/2019_2020 : (Derived from 9.117.1) Providing and fixing factory made PVC door frame made of PVC extruded sections having an overall dimension as below (tolerance 1 mm), with wall thickness 2.0mm (0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge
Extruded section profile size 48x40 mm

Details of cost for 5 metre

MATERIAL:

Code	Description	Unit	Quantity	Rate	Amount
MR	48 mm X40 mmX1.5 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish white, grey or wooden finish LABOUR:	metre	5.00000	120.00	600.00
0156	Carpenter (average)	Day	0.15000	467.00	70.05
0114	Beldar	Day	0.15000	368.00	55.20
9999	Sundries	L.S.	4.68000	1.73	8.10
TOTAL					733.35
	cost for 5.0 metre				733.35
	cost for one metre				146.67
	say				146.67

	Add Water Charges @ 1.0%				1.46
	Add CPOH @ 7.5%				11.11
	Cost index 32.04 %				9.27
	Total with Cost index				168.52
	Say				168.52

8 Specification Code: od56058/2019_2020

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page 7

PRICE

EST NO:2019/7867

od56058/2019_2020 :Laterate masonry with neatly dressed laterate stone of size 35x20x20cm or nearest size in cement mortar 1:6 for foundation and basement including all cost of materials, labour charges etc.

Details of cost for one cum.

Code	Description	Unit	Quantity	Rate	Amount
MR	laterate stone of size 40x20x15cm 	each	66.00000	38.00	2508.00
3.11	Rate as per item number 3.11 of SH: Mortars 	cum	0.08740	3217.55	281.21
9999	Sundries 	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class 	Day	0.40000	487.00	194.80
0124	Mason (brick layer) 2nd class 	Day	0.40000	448.00	179.20
0115	Coolie 	Day	1.46000	368.00	537.28
0101	Bhisti 	Day	0.45000	407.00	183.15
TOTAL					3888.36
cost for one cum					3888.37
	say				3888.37

Other Engineering Organisations

	Add Water Charges @ 1.0%				38.88
	Add CPOH @ 7.5%				294.54
	Cost index 32.04 %				480.19
	Total with Cost index				4701.99
	Say				4701.99

9 Specification Code: od56059/2019_2020

od56059/2019_2020 :Laterate masonry with neatly dressed laterate stone of size 35x20x20cm 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. (Derived From D S R 50.6.7.2)

Details of cost for one cum.

Code	Description	Unit	Quantity	Rate	Amount
------	-------------	------	----------	------	--------

PRICE

EST NO:2019/7867

MR	laterate stone of size 40x20x15cm 	each	66.00000	38.00	2508.00
3.11	Rate as per item number 3.11 of SH: Mortars 	cum	0.08740	3217.55	281.21
9999	Sundries 	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class 	Day	0.53000	487.00	258.11
0124	Mason (brick layer) 2nd class 	Day	0.53000	448.00	237.44
0115	Coolie 	Day	1.90000	368.00	699.20
0101	Bhisti 	Day	0.45000	407.00	183.15
9999	Sundries 	L.S	22.36000	1.73	38.68

TOTAL					4210.51
cost for one cum					4210.52
	say				4210.52

	Add Water Charges @ 1.0%				42.10
	Add CPOH @ 7.5%				318.94
	Cost index 32.04 %				592.26
	Total with Cost index				5163.84
	Say				5163.84


 PROJECT ENGINEER
 NIRMITHI KENDRA
 KANNUR


 SITE ENGINEER
 NIRMITHI KENDRA
 KANNUR

Name of Work : Proposed Alteration and Additional Electrification to PKM College at Madambam						
Part I - General Wiring				DSES : 67/019		
Sl. No	DSOR Code	Qty	Unit	Specification	Unit	Rate (Incl.CI@ 32.04%) Amount
1				Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FRLS PVC insulated stranded single core copper conductor cable 650V grade, including providing switch board main and continuous earthing with No.14 SWG bare copper, required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (RoHS compliant modular accessories).		
a	90.2.1.8	130	No's	Single Control light point with 6A, plate ceiling rose (MP)	point	992 128960
b	90.2.1.10	77	No's	Single control light point without ceiling rose (MP)	point	942 72534
c	90.2.1.9	8	No's	Twin Control light point with 6A, plate ceiling rose (MP)	point	1576 12608
d	90.2.1.15	2	No's	Single Control light point with 6A, plate ceiling rose (LP)	point	1182 2364
e	D1	10	No's	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. (Group B)	point	429 4290
f	90.2.1.11	76	No's	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator	point	1477 112252
g	90.2.1.12	1	No's	Call bell point with piano type 6 A bell push at one end and 6 A, 3 plate ceiling rose at other end	point	1036 1036
h	90.2.1.13	22	No's	Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that of light points.	/E	496 10912
i	90.2.1.14	45	No's	Independent Plug (Including wall fan)	/E	661 29745
2	1.32	23	No's	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	/E	536 12328
3	1.56	66	No's	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/ 6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	/E	665 43890
4	D2	5	No's	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos. 3 pin 5/6 A modular socket outlet and 3 Nos. 5/ 6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	each	933 4665
5	90.10.3			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)		
a	90.10.3.33	7	No's	25 A 3 Pin Shuttered Socket	/E	309 2163
b	90.10.3.15	7	No's	32A DP switch with indicator	/E	554 3878
6	1.24			Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
a	1.24.6	2	No's	Telephone socket outlet	/E	127 254

b	D3	81	No's	RJ 45	/E	177	14337
c	1.24.7	8	No's	TV antenna socket outlet	/E	128	1024
7	1.27			Supplying and fixing following size/ modules, GI/Fibre box alongwith modular base & cover plate for modular switches in recess etc. as required.			
a	1.27.2	105	No's	3 Module (100 mmX75 mm)	/E	244	25620
8	1.28			Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.			
a	1.28.2	105	No's	3 Module	/E	120	12600
9				Supply and fixing the following types of superior quality 250V A.C call bell on existing M.S. box and giving connections with required length of 3 core, 16 / 0.20mm 650/1100V grade PVC insulated and PVC sheathed round copper conductor flex wire conforming to relevant ISS or with the extended original wiring, earthing the MS box and making good the surface as required.			
a	90.5.1.3	1	No's	Ding dong bell	/E	176	176
10	1.58	71	No's	Supplying and fixing PVC batten Straight/angle holder including connections etc. as required.	/E	82	5822
11	D4	71	No's	supply and fixing of 10W LED lamp in existing batten holder (Havellsadore B22 cool day light LHLDERUEML8X010 or equivalent make, philips, osram, syska).	/E	242	17182
12	D5	1	No's	Supply, conveyance, installation, testing and commissioning of surface mounting 12W Round Panel Light (Philips, Havells or similar make) of all types directly on the ceiling including giving connections with required 3 core copper conductor flex wire conforming to relevant ISS or with the extended original wiring etc as required	/E	1709	1709
13	D6	15	No's	Supply, conveyance, installation, testing and commissioning of recess mounting 2x10W Round LED Down Light (Philips, Havells or similar make) of all types complete with all accessories in the existing opening on the false - ceiling including giving connections with existing wire conforming to relevant ISS etc as required	/E	1568	23520
14	90.3.19			Supply conveyance, installation, testing and commissioning the light fittings of following types made from CRCA sheet 0.5mm thickness with all accessories and lamps directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required			
a	90.3.19.1	129	No's	1x28wT5/LED fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube.	/E	1011	130419
15	90.3.24			Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required.			
a	90.3.24.1	4	No's	1x28wT5/LED fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube	/E	1263	5052
16	90.3.18			Supply, fabrication, conveyance and fixing the following sizes of B class GI pipe bent to shape / cut and welded to shape and fixing the same to wall / parapet using clamps as noted along with each size, painting with 2 coats of synthetic enamel paint over a coat of zinc chromate primer, making good the damages, colour washing etc as required.			
a	90.3.18.3	2	Mts	40 mm dia with clamps made from 20 x 3 mm MS flat	/E	506	1012
17	D7	2	No's	Supply and fixing Philips Smart Bright 36 Watts Led Street Light (Aluminium, Cool White) or any other equivalent make and giving connections as required.	/E	5185	10370

18	90.4.1	76	No's	Supply and installation of suitable size MS rod type fan clamp in the RCC slab as per IS 732 as required.	/E	149	11324
19	D8	76	No's	Supply and providing every additional length of down rod of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	/E	171	12996
20	90.4.5			Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.			
a	90.4.5.2	76	No's	1200mm sweep -5star rated ceiling fan complete with 300mm down rod, canopies, shackles and blades and resistance type regulator working on 230V/240V single phase A/C	/E	1858	141208
21	90.4.8	5	No's	Charges for cutting holes suitable for accommodating exhaust fans up to 305mm sweep including plastering colour washing etc. as required.	/E	383	1915
22				Supply of the following sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.			
a	D9	5	No's	300/ 305 mm, single phase light duty exhaust fan in metal frame havells ventilair TSP 300mm sweep FHDDEMTDBS12) or equivalent make of crompton, almonard	/E	2623	13115
23	1.21			Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.			
a	1.21.1	1220	Mts	20 mm	/M	75	91500
b	1.21.2	310	Mts	25 mm	/M	91	28210
24				Supplying and clamping following size of corrugated PVC flexible conduit with necessary compression gland with locking ring and check nut at termination pointed using suitable size GI / painted MS saddles spacing not exceeding 60 cms on surface including making good the damages, colour washing etc. as required.			
a	D10	18	Mts	20 mm	/M	61	1098
25	90.6.4			Supply and drawing 650/1100 V grade FRLS PVC insulated stranded single core copper conductor cables conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.			
a	90.6.4.13	875	Mts	1.50 sq.mm 3 Run	/M	111	97125
b	90.6.4.22 + 90.6.4.11	535	Mts	2.50 sq.mm 2 Run + 1.50 sq.mm 1 Run (for PP)	/M	170	90950
c	90.6.4.32 + 90.6.4.21	20	Mts	4.00 sq.mm 2 Run + 2.50 sq.mm 1 Run (1Φ DB)	/M	199	3980
d	90.6.4.42 + 90.6.4.31	75	Mts	6.00 sq.mm 2 Run + 4.00 sq.mm 1 Run (for UPS DB)	/M	284	21300
e	90.6.4.34	200	Mts	4.00 sq.mm 4 Run + 2.50 sq.mm 2 Run	/M	327	65400
26	90.12.7			Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages, colour washing etc. as required.			
a	90.12.7.39	60	Mts	4 core 6 sq mm with factory made clamp	/M	202	12120
b	90.12.7.40	30	Mts	4 core 10 sq mm with factory made clamp	/M	228	6840
c	90.12.7.41	8	Mts	4 core 16 sq mm with factory made clamp	/M	259	2072
d	90.12.7.29	8	Mts	3.5 core 50 sq mm with factory made clamp	/M	435	3480

27	90.12.24			Supply of superior quality copper tubular cable socket and making core termination of cables of the following sizes including crimping etc. as required.			
a	90.12.24.3	32	No's	6 sq mm	/E	22	704
b	90.12.24.4	16	No's	10 sq mm	/E	24	384
c	90.12.24.5	8	No's	16 sq mm	/E	27	216
d	90.12.24.6	2	No's	25 sq mm	/E	35	70
e	90.12.24.8	6	No's	50 sq mm	/E	49	294
28	9.1			Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.			
a	9.1.32	12	No's	4 X 6/10 sq. mm (25mm)	/E	268	3216
b	9.1.33	2	No's	4 X 16 sq. mm (28mm)	/E	337	674
c	9.1.22	2	No's	3 1/2 X 50 sq. mm (35mm)	/E	467	934
29	90.11.1			Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required			
a	90.11.1.15	3	No's	6 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)	/E	7155	21465
b	90.11.1.10	4	No's	4 way (8+12) - three phase double cover (IP 42/43)	/E	2756	11024
30				Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)			
a	2.3.3	4	No's	12 way, Double door (Including UPS DB)	/E	1520	6080
31	D11	3	No's	Supply and fixing 40A 2pole MC COS in Existing Enclosure and giving connection etc. as required.	/E	2980	8940
32	D12	1	No's	Supply and fixing 125A 4pole MC COS in Existing Enclosure and giving connection etc. as required.	/E	9812	9812
33	2.10			Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.10.1	95	No's	Single pole (6-32A)	/E	229	21755
b	D13	3	No's	Single pole (32/40A)	/E	590	1770
c	D14	4	No's	Triple pole (40-63A)	/E	1562	6248
34	2.13			Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.13.1	5	No's	40 amps 4pole ISO	/E	881	4405
b	2.13.2	2	No's	63 amps 4pole ISO	/E	895	1790
35				Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.12.1	4	No's	40 amps 2 Pole ISO	/E	293	1172
36	2.15			Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.15.1	4	No's	25 amps 100mA RCCB	/E	2768	11072
b	2.15.2	1	No's	40 amps 100mA RCCB	/E	2814	2814
c	2.15.3	2	No's	63 amps 100mA RCCB	/E	3040	6080

37				Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
a	2.14.1	4	No's	25 amps 2P RCCB	/E	2179	8716
38	5.4	3	No's	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	/E	5713	17139
39	D15	1.2	Mts	Providing and fixing 25 mm X 3 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	/m	635	762
40	5.15	12	Mts	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	/m	170	2040
41	D16	30	Mts	Providing and fixing 3.15 mm dia (10 SWG) copper wire on surface or in recess for loop earthing as required.	/m	77	2310
42	D17	212	Mts	Providing and fixing 2.64 mm dia (12 SWG) copper wire on surface or in recess for loop earthing as required. (for providing along with cable)	/m	59	12508
43				supply of superior quality copper earth socket for the following sizes of earth conductor including crimping etc. as required.			
a	D18	12	No's	3.15 mm (10 SWG)	/E	23	276
b	D19	24	No's	2.65 mm (12 SWG)	/E	21	504
44				Supply and providing the following sizes of bolt and nut with washers on the existing MS box / earth bus etc. as required including drilling necessary holes as required			
a	D20	12	No's	25 x 3mm brass bolt & nut	/E	19	228
b	D21	24	No's	25 x 6mm brass bolt & nut	/E	20	480
45	11.6			Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required.			
a	11.6.1	5	Mts	32 mm dia	/m	321	1605
46				Fabrication, supply, conveyance, installation testing and commissioning of floor or wall mounting, dust and vermin proof, cubicle type MV panel board comprising of the following components/ devices & complying to IS 8623.			
				Fabrication of fully partitioned, dust and vermin proof enclosure for panel assembly as per form 4 of IS 8623 (with latest amendments) using CRCA sheet as per approved design and requirement, with front and rear access facility, bus bar chambers, hinged doors for all switch gear compartments, earthing the doors using 4 sq mm braided copper conductor, providing necessary cut-outs for mounting meters, relays, indication lamps, bus bar interconnection etc. detachable covers for bus bar chamber and cable alley, powder coating the assembly after subjecting to 7 tank process etc as required. CRCA sheet alone be used for the fabrication. Angles/ flats/ slotted angles etc shall not be used for the fabrication of panel assembly. The measurements will be taken the area of the complete sheets used for panel board including partitions, folding, shrouding etc.			
a	D22	1	No's	MSB Supply and fabrication of MV panel board using 1.6mm CRCA sheet, powder coated (excluding base frame) Incommers: 125A, 4Pole, 16kA MCCB 1Nos Cu busbar 25x3mm (for R Y B N & outgoings) Earth bus Cu 25x3mm 120/5 A, 5 VA, accuracy class 0.5, Resin Cast Metering CT Out goings: 63A, 4P, 10kA MCB 4Nos		100241	100241

47	D23	1	No's	CT Metering Cubicle Fabrication, supply & installation of dust and vermin proof, wall mounting, thermoplastic meter box of following size suitable for fixing KSEB meter, fuse units, CT etc, hinged door construction for the front side with compartments if necessary, providing vision panel for the meter compartment, knock out for cable entry and exit. Including:- 125 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC Fuses 100A, HRC Fuse Base with HRC Fuse link 120/5 A, 5 VA, accuracy class 0.5, Resin Cast Metering CT Al busbar 32x6mm earth bus 25x3mm			
					/E	19858	19858
				Part I Total			1582941

PROJECT ENGINEER
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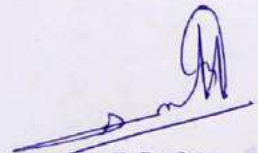

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PART II- Providing Network System						
1	N-D1	3	No's	Supply and providing wall mounting rack consisting of IO/BOX(UNICORN, Plantex 4U Wall Mount Cabinet with Lock/Network Rack/Server Rack, Power Socket and Cooling Fan or equivalent make) cooling fan, glass door with locking arrangement (including cost and conveyance charges).	/E	29376
2	N-D2	4	No's	D-Link Cat6 UTP 24 Port Loaded Patch Panel/ Cat6 24 Port Panel (/Krone/Cisco).	/E	18264
3	N-D3	4	No's	Cisco 24 Port Gigabit Manageable Switch (10/100/1000) (D-LINK/Krone/Cisco or equivalent make)	/E	79160
4	N-D4	3	No's	Supply and providing horizontal/vertical cable manager.	/E	2418
5	N-D5	81	No's	Supply and providing 1M long patch cord.	/E	21060
6	N-D6	81	No's	Supply and providing 2M long patch cord.	/E	24867
7	1.21.1	770	Mts	Supply and providing 20 mm RPVC pipe with specials in recess	/M	57750
8	1.21.2	190	Mts	Supply and providing 25 mm RPVC pipe with specials in recess	/M	17290
9	1.24			Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.		
a	D3	81	No's	RJ 45	/E	14337
10	1.27			Supplying and fixing following size/ modules, GI/Fibre box alongwith modular base & cover plate for modular switches in recess etc. as required.		
a	1.27.2	81	No's	3 Module (100 mmX75 mm)	/E	19764
11	1.28			Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.		
a	1.28.2	81	No's	3 Module	/E	9720
12	1.53			Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.		
a	1.53.1	1200	Mts	1 run of cable	/M	54000
13		81	No's	Charges for testing and marking/permanent labelling of systems. (LS)	/E	12150
14		1	No's	Charges for configuration and commissioning.	/E	1500
				Part II Total		361656

PART III - P A SYSTEM							
1		1	No's	Supply and Providing 250 W PA Amplifier (SSA-250 DP) of Ahuja or equivalent make) with MP3 Player, USB, SD, & MMC Card Reader & Remote control and input channels 6 x MIC, 2x Aux., 1xLine. suitable for AC and 24 volt DC operation including all required additional accessories & suitable enclosure.	/E	17500	17500
2		1	No's	Supply and providing (PMX-1632 FX) manual operated console switch panel suitable for 16 Nos outlet 30Watt wall speaker connection (Ahuja or equivalent make).	/E	16300	16300
3		1	No's	Supply and Providing AWM 520 VH Wireless Microphone complete set with battery and Wireless Modem.	/E	2500	2500
4		1	No's	Supply and Providing Ahuja make or equivalent make Microphone (ACM 66 or ACM 66CH) with bright and clear ring LED indicator with stand and 10 inch goose neck.	/E	2600	2600
5		4	No's	Supply, conveyance, installation & testing of PA Wall Speaker SMX-302/302T (30W) of Ahuja or equivalent make fixed on wall using suitable size wall bracket etc as required at site.	/E	4100	16400
6	1.21.1	80	Mts	Supply and Clamping/ Drawing 20 mm RPVC Pipe with Specials on wall / Ceiling /False ceiling for drawing speaker wire protection.	/M	75	6000
7	1.21.2	30	Mts	Supply and Clamping/ Drawing 25 mm RPVC Pipe with Specials on wall / Ceiling /False ceiling for drawing speaker wire protection.	/M	91	2730
8	90.6.4.12	110	Mts	Supply and drawing 2 runs of 1.5 sq mm copper wire through the proposed pipe and giving connection.	/M	92	10120
9		2	No's	Supply and providing special chord and jack at both end length not less than 5M speaker line wire through the proposed pipe and giving connection for Mic.	/E	400	800
10		1	Set	Charges for programming, tuning and testing to obtain fine tuning.	/E	1500	1500
11		1	Set	Supply, conveyance, installation & testing and Commissioning of 200 Ah or nearest available maintenance free Battery Backup as a single unit or in pair of reputed make for PA system with MCB change over facility in suitable enclosure fixed on wall including wiring / extension of plug point with connection code.	/E	32000	32000
				Part III Total			108450

				Part IV- Providing 1 Phase 5kVA UPS				
1	D24	3	No's	Supply, Conveyance, installation & commissioning of 1phase 5kVA UPS with battery rack of suitable size angle iron and support as per standard painting etc (Including 3No's 150Ah or nearest equivalent available size maintenance free (SMF/VRLA) battery of approved make including giving connection with suitable size insulated flexible copper wire and sockets , through flexible pipe, ss nut &bolt, anti corrosive gell etc)	/E	82306	246917	
				Part IV Total			246917	
				Part IV- Providing Wifi				
1	D25	13	No's	D-Link Access point with Power Adapter + POE Injector DAP- 2230(/Krone/Cisco).	/E	5277	68601	
2	1.21.1	200	Mts	Supply and providing 20 mm RPVC pipe with specials in recess	/M	75	15000	
3	1.21.2	50	Mts	Supply and providing 25 mm RPVC pipe with specials in recess	/M	91	4550	
4	1.53			Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.				
a	1.53.1	276	Mts	1 run of cable	/M	45	12420	
				Part IV Total			100571	
				Abstract of Estimates				
				Part I - General Wiring			1582941.35	
				Part II- Providing Network System			361656.00	
				Part III - P A SYSTEM			108450.00	
				Part IV- Providing 1 Phase 5kVA UPS			246917.28	
				Part IV- Providing Wifi			100571.00	
				Grand Total			2400535.63	
				Deduct CP&OH added to the estimate 15%			313113.34	
				Net amount			2087422.29	
				Add OH @ 7.5%			156557.00	
				Grand Total amount			2243979.29	
				Unforeseen items if any			6020.71	
				Grand Total			2250000.00	

Rupees twenty two lakhs fifty thousand

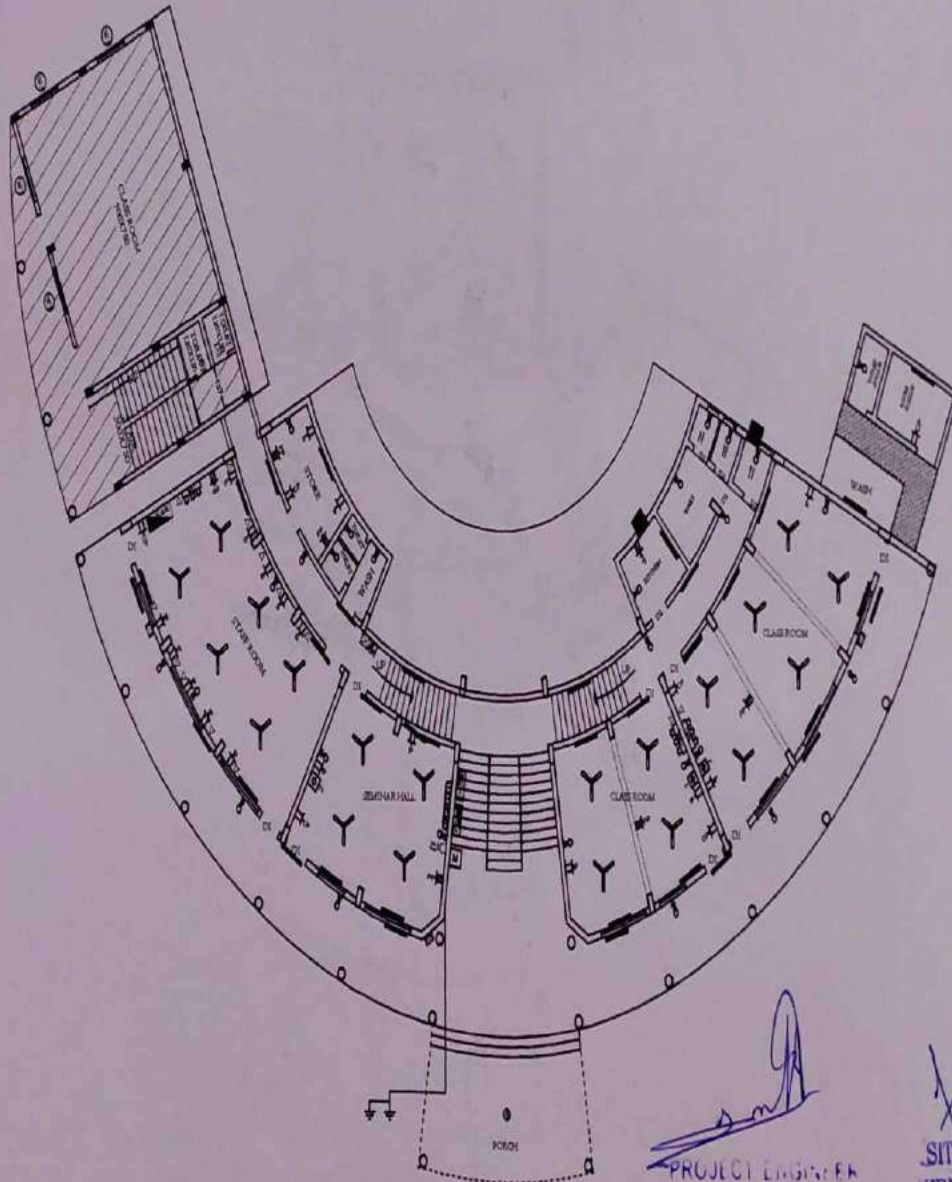

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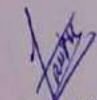
SL.No.	SYMBOL	DESCRIPTION	GF	GF(LL)	FF	FF(LL)	SF	TOTAL
01		Angle batten with LED	27	08	13	04	19	71
02		LED Slim tube light	36	21	35	12	29	133
03		12W Downlight	01	00	00	00	00	01
04		2x10W Downlight	00	00	00	00	15	15
05		Street Light	00	00	02	00	00	02
06		Ceiling fan	20	05	19	10	22	76
07		Wall fan	00	07	06	00	01	14
08		Exhaust fan	02	00	00	00	03	05
09		Independent Plug	18	04	03	00	06	31
10		Combined Plug	06	04	07	02	03	22
11		Power Plug	07	03	07	02	04	23
12		2 No. CPB with Data Socket	00	10	38	14	04	66
13		3 No. CPB	03	01	00	01	00	05
14		25A A/C Plug	01	04	02	00	00	07
15		TV Socket	03	01	02	00	02	08
16		Telephone Socket	00	02	00	00	00	02
17		RJ 45 Data Socket	13	01	00	01	00	15
18		Bell Push	00	01	00	00	00	01
19		Call bell	00	01	00	00	00	01
20		Wall Speaker	00	00	04	00	00	04
21		WiFi Modem	03	03	03	01	03	13
22		1.5 T A/C	01	04	01	00	00	06
23		2T A/C	00	00	01	00	00	01
24		3φ 6W VDB	01	00	01	00	01	03
25		3φ 4W DB	01	01	01	01	00	04
26		1φ 12W DB	00	02	01	00	01	04
27		Meter box	01	00	00	00	00	01
28		ISI Plate Earth (Including UPS)	03	00	00	00	00	03

PROPOSED ALTERATION AND ADDITION TO THE EXISTING P.K.M COLLEGE, MADAMBAM

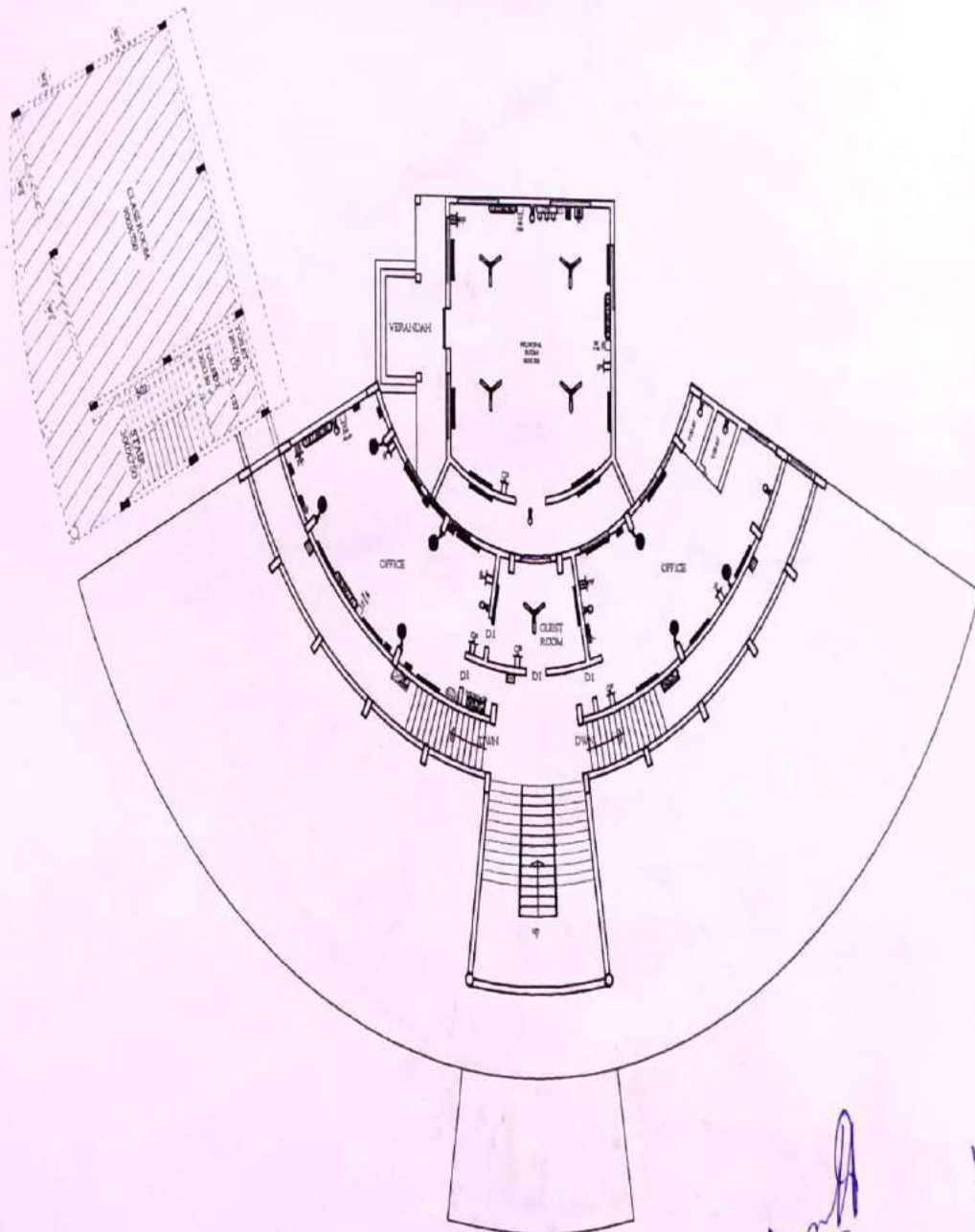


GROUND FLOOR PLAN


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR


SITE ENGINEER
NIRMITHI KENDRA
KANNUR

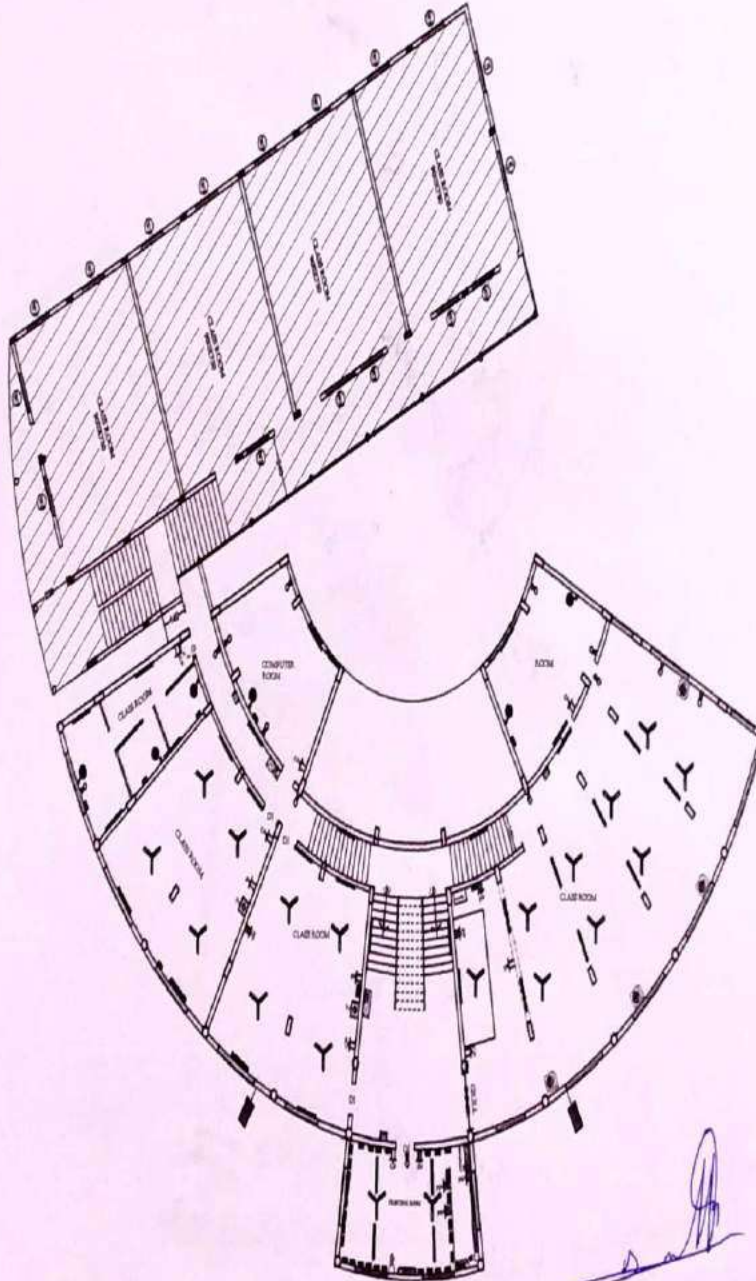
PROPOSED ALTERATION AND ADDITION TO THE EXISTING P.K.M. COLLEGE, MADAMBAM



GROUND FLOOR PLAN
(LANDING LEVEL)
PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR

SITE ENGINEER
NIRMITHI KENDRA
KANNUR

PROPOSED ALTERATION AND ADDITION TO THE EXISTING P.K.M COLLEGE, MADAMBAM

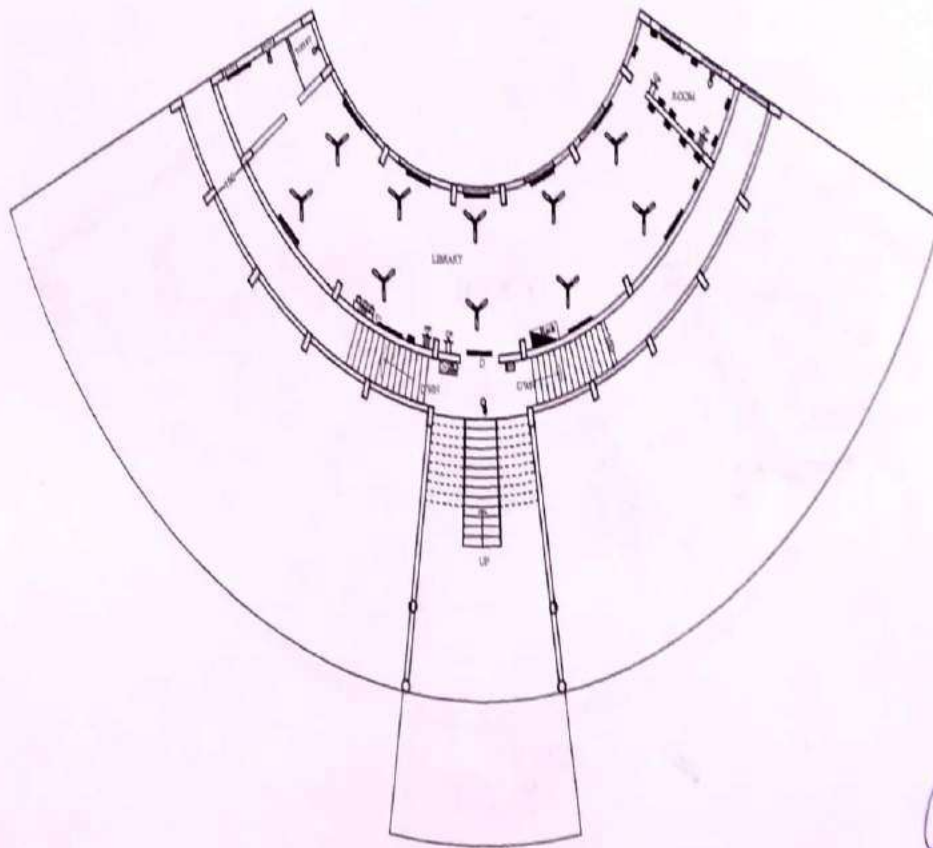


FIRST FLOOR PLAN

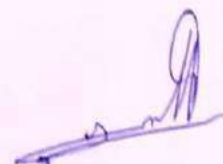
PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR

SITE ENGINEER
NIRMITHI KENDRA
KANNUR

PROPOSED ALTERATION AND ADDITION TO THE EXISTING P.K.M COLLEGE, MADAMBAM



FIRST FLOOR PLAN (Landing Level)

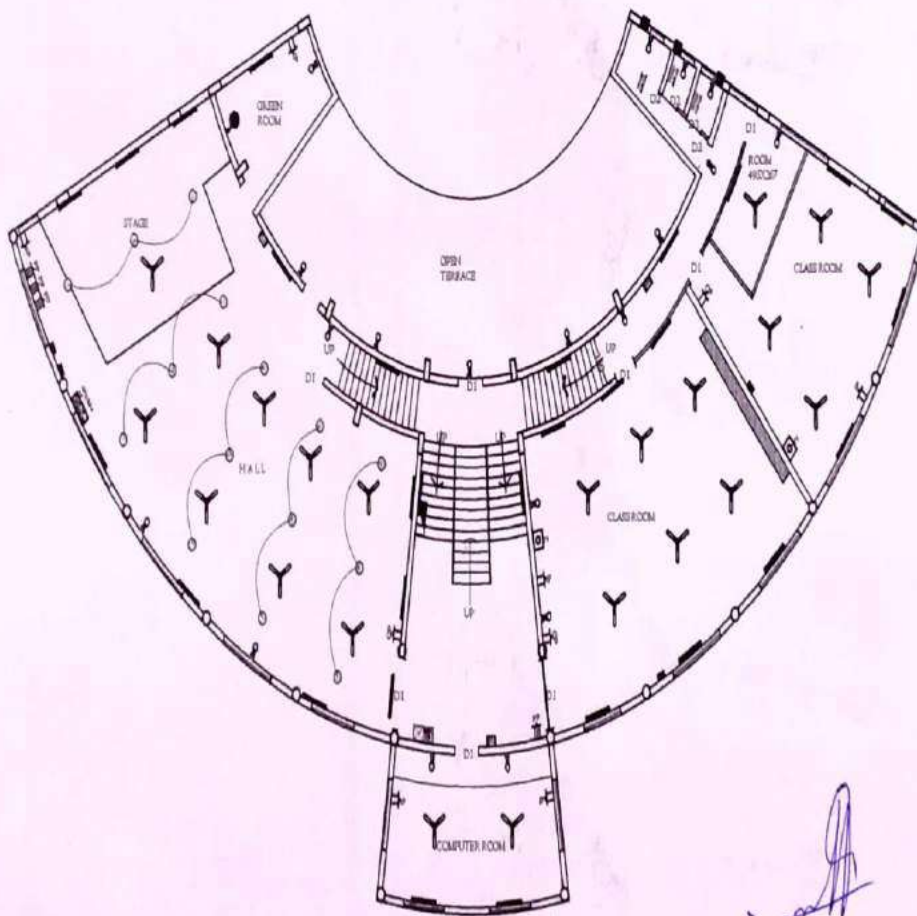


PROJECT ENGINEER
NIRMITHI KENDRA
KANNUR



SITE ENGINEER
NIRMITHI KENDRA
KANNUR

PROPOSED ALTERATION AND ADDITION TO THE EXISTING P.K.M COLLEGE, MADAMBAM



SECOND FLOOR PLAN

PROJECT ENGINEER
NIRMITHIKENDRA
KANNUR

SITE ENGINEER
NIRMITHI KENDRA
KANNUR