INSTITUTIONAL DEVELOPMENT PLAN

2022-2027

NMSM GOVERNMENT COLLEGE KALPETTA

Puzhamudi (P.O.), Kalpetta, Wayanad, Kerala- 673122

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INSTITUTIONAL INFORMATION

Brief Profile

Name of the institution	:	N.M.S.M. Government College, Kalpetta
Year of Establishment	:	1981
Affiliating University	:	University of Calicut
Type of Institution	:	Government Approved by UGC as 2(f) & 12B
Status of Institution	:	Government College, Affiliated
NAAC Accreditation status	:	Accredited with B+ grade in 2016
Location	:	Rural, Tribal and hilly area
Existing Land Availability	:	25 acres

About the College

Crowning a hillock in majestic splendour and set against a lush verdant backdrop, NMSM Government College is the pride of Kalpetta. N.M.S.M Govt. College, Kalpetta, was started in October 1981 in Jinachandra Memorial Auditorium, Kalpetta. In the year 1983, the College moved to its permanent campus enclosed by a green and cool landscape at Vellaramkunnu 4 Kilometres away from Kalpetta through Mysore-Calicut Highway (NH 766). The entire landscape spanning around 11 hectares has been donated to the College Sponsoring Committee by late Sri. Neelikandy Moideen Sahib. The college has been named after him as Neelikandy Moideen Sahib Memorial Govt. College. The institute was upgraded in 1989 to the status of a degree college with the commencement of B.A in History. Subsequently, B.Com (1990), M.Com (1993), B.A Development Economics and B.A Mass Communication and Journalism (1999) , BSc. Computer Science (2012) and M.A. Economics (2016) , M.A. Mass Communication and Journalism (2016) , M A History (2020) and BSc Chemistry (2020) were started. The college celebrated its silver jubilee in 2007.

The college is approved by the UGC for assistance under 2(f) and 12(b) of UGC Act 1956. The college is re accredited with B+ grade in 2016 by NAAC and is under the way of third cycle NAAC accreditation in 2021. The college has a general library, seminar hall, digital audio-

visual theatre, an auditorium, ORICE video conference hall and departmental laboratories. There are two N.S.S units and one N.C.C unit functioning in this college. The college has faculty strength of 42 who work in unison for the overall academic and co-curricular achievements of the student community. More than 75 per cent of the students belong to socially and economically weaker sections of the society and about 70 per cent of the student population are girls. The College is committed to serving the economically and socially marginalized sections of society and provides university education in a calm atmosphere for students, especially those belonging to Wayanad and nearby districts. The college provides due support to the differently abled as a number of our students and four staff members are differently abled. In keeping with its mission, the College promotes inclusive practices in the implementation of its academic programmes, taking into account learning differences and the special needs of the students. The college requires new infrastructure and renovation of existing infrastructure facilities to deliver quality higher education to the rural and the marginalized populace.

Arts and Science Colleges in Wayanad

Govt.	Govt. Aided	Self-Financing	Total
2	**4**	**10**	**16**

Brief Profile of Wayanad District

Wayanad District came into existence on 1st November, 1980 as the 12th District of Kerala. The name Wayanad is derived from "Vayal Nadu" which means the land of paddy fields. It is a picturesque plateau situated at a height between 700 metres and 2100 metres above the sea level nested among the mountains of the Western Ghats on the Eastern portion of North Kerala and on the sides of Tamil Nadu and Karnataka States. About 885.92 sq.kms of area is under protected forest. The culture of Wayanad is mainly tribal oriented. Though considered as backward, this District is one of the major foreign exchange earning districts of the State, with its production of crops like pepper, cardamom, coffee, tea, spices and other condiments. Evidences of the New Stone Age Civilization and Megalithic Burial Sites can still be seen on the Hills of Wayanad.

Tribal Population in Wayanad

The total population of Wayanad district as per Census 2011 is 816558 out of which the scheduled Tribe population is 151443 (18.5 %). The Literacy Rate of Scheduled Tribe is 65%.

Important Statistics					
		State		District	
		Number	Percentage	Number	Percentage
Literates	Persons	28,135,824	94	6,45,585	89.03
	Male	13,704,903	96.11	3,28,136	92.51
	Female	14,430,921	92.07	3,17,449	85.70
Scheduled Castes	Persons	3,039,573	9.1	32,578	3.99
	Male	1,477,808	9.22	16,406	4.08
	Female	1,561.765	8.99	16,406	3.89
Scheduled Tribes	Persons	4,84,839	1.45	1,51,443	18.53
	Male	2,38,203	1.49	74,476	18.54
	Female	2,46,636	1.42	76,967	18.51

Vision of the College

"KINDLING THE MINDS"

The college strives to shape the student community, which is the cream of the society, into better citizens, and guides them to contribute constructively towards national priorities like creation of wealth and generation of employment. We have a vision that the students coming out of our campus should be spiritually enlightened, psychologically sound and practically efficient. We should get our country, leaders who are intellectually competent, spiritually mature, morally upright, psychologically integrated, physically healthy and acceptable in the society, who will champion the cause of justice, truth and peace and who are open to further growth. We should aspire towards creating a just human society where humane person is respected, where our cultural heritage of Ahimsa, Religious Plurality and National Integration is upheld and where the poor and the marginalized are specifically taken care of.

Mission of the College

- Imparting quality education through innovative techniques and practices to equip the socially and economically backward students to cope with the latest requirements.
- To provide basic facilities for them to familiarize with new arenas of knowledge and to engage more deeply in studies and researches.
- Ensuring the physical, mental and spiritual development of the students through curricular and co-curricular activities and their contributions to the society and to the country at large.
- To mould intelligent, healthy and talented youth and dedicate them for the country.
- Realising the fact that kindling minds through education is the best way to uplift the rural and tribal youth, the college tries to give meaningful education to the students.

Role and Responsibilities of Key Positions and Bodies

The Principal is the head of the institution. All the staff, both teaching and non-teaching are under his/her direct control. Administrative and financial powers are delegated to him/her by the Director of Collegiate Education for ensuring effective and smooth functioning of the institution. On the academic side, there is a Vice-Principal for assisting the Principal. In the absence of the Principal, the Vice-Principal discharges the duties of the Principal. There is a head of department for each faculty. The heads of departments prepare the plan for various academic activities of the respective departments in consultation with the faculty members, with the approval of the Principal. The Staff Council of the college advises the Principal in all academic matters.

The administrative section consisting of a Senior Superintendent, Head Accountant, Clerks and Typist assist the Principal in matters related to the administration of the institution. Internal and external correspondence, service matters of staff, accounts, admission and examination work are carried out by the administrative wing. Various committees monitor and execute the plans and programs of the college. The college PTA plays an important role in decisions relating to the infrastructures and general functioning of the college. Clubs and associations are formed for conducting extra-curricular activities of the students and various committees ensure the overall discipline of the college.

Courses Offered

Name of Course	Duration of the Course	Sanctioned strength
B.Com	**6 Semesters**	50
BA Economics	**6 Semesters**	50
BA History	**6 Semesters**	50
BA Mass Communication and Journalism	**6 Semesters**	40
BSc Computer Science	**6 Semesters**	24
BSc Chemistry	**6 Semesters**	24
M.Com	**4 Semesters**	20
MA Journalism and Mass Communication	**4 Semesters**	20
MA Economics	**4 Semesters**	20
MA History	Semesters	20

PROPOSALS

MASTER PLAN AND DPR PREPARATION

The college is positioned atop a hillock at an altitude of 2270 m from the sea level. Situated in the midst of coffee plantations in a sprawling 25 acres of land area, it has a unique local and an eco-friendly environment. The typical features of the topography make this a vulnerable place, susceptible to landslides and heavy rainfall. Any proposed expansion of the college would have to be undertaken keeping this in mind. Digital survey of the land area as well as soil testing are the needs of the hour as no studies of any sort have taken place at any stage in the setting up of this campus. A Master plan and Detailed Project Report (DPR) need to be prepared based on the scientific outcome of these surveys. We had communications with accredited agencies like ULCCS for the preparation of the same, but it needs funding. So, we request you to sanction an amount for the Master plan and DPR preparation before finalising the infrastructure development proposals.

Background

Master plan and DPR based on scientific studies for the future infrastructure development of the college are currently unavailable.

Justifications

- A proper plan for the infrastructure development of the campus is to be prepared.
- The expected amount for the Master plan and DPR may not be possible to meet by the college.
- The college will be upgraded to satisfy the international levels.
- Fund flow towards the college can be appropriately planned, controlled, and utilized.

Requirements

Digital surveying of the entire area and soil surveying and preparation of master plan and detailed project report (DPR) for five years.

Expected Outcome

Mater Plan and DPR for five years, to effectively utilize funds from the government for the upliftment of the college.

Expected Amount

- Digital surveying of the entire land- Rs.6000*25 acre=150000
- Master plan preparation:Rs.40000*25acre=1000000
- Soil survey:Rs.30000 *10 building=300000
- Building design, plan and estimate preparation:2.5 % of the total estimated building cost

ACADEMIC BLOCKS

1. SCIENCE BLOCK

NMSM Govt. College Kalpetta is the only Government College in the Wayanad district under the University of Calicut. Currently, the college has only two UG science courses: BSc Computer Science (started in 2012) and BSc Chemistry (started in 2021) which is inadequate to cater the needs of students in Wayanad and nearby districts to opt for science UG courses. Also there are **no** PG science courses available in the college for the science under graduates. Hence the students have a limited number of options for higher education in the science stream. To provide opportunities for the students to study UG and PG courses in the science stream, the college now focuses on starting more science courses. Proposals for starting PG courses for the existing UG science courses and starting new UG science courses are already under process at the University of Calicut and the Directorate of Collegiate Education. Currently, facilities for **six** UG science courses and **six** PG science courses are proposed under the five-year plan, i.e., 2022 to 2027, which includes infrastructure, furniture, and labs for existing and new courses

Background

Existing Departments

I. Computer Science
II. Chemistry
III. Mathematics
IV. Physics

Existing Courses with intake

I. BSc Chemistry with Physics and Mathematics (UG - Sanctioned in 2020)
   24 + 5 => 29 seats
II. BSc Computer Science with Physics and Mathematics (UG – Sanctioned 2012)
   24 + 5 + Marginal increase 30% => 36 seats

Existing Infrastructure facilities

I. Computer Science Lab –Available for 24 students in the Administrative Block which cannot be scaled up further
II. Chemistry Lab -Not Available
III. Physics Lab - Available for 18 students functioning in the ground floor of Edusat studio building which cannot be scaled up further

IV. Classrooms –Three classrooms available for BSc Computer Science as a part of Administrative Block. No permanent class rooms available for newly sanctioned BSc Chemistry Programme.

V. Faculty rooms – No permanent faculty rooms available for science departments

Requirement for Science Block buildings - Phase I

Phase I (For Existing Courses and Courses Applied)					
Sl.No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost (in Lakhs)
1	Under Graduate Class Rooms	600 sqft	6	3600 sqft	162
2	Computer Science Lab(UG)	1200 sqft	1	1200 sqft	54
3	Chemistry Lab(UG)	1200 sqft	1	1200 sqft	54
4	Networking and Hardware Room(CS Department)	400 sqft	1	400 sqft	18
5	Chemistry Store Room	400 sqft	1	400 sqft	18
6	Physics Lab(UG)	1200 sqft	1	1200 sqft	54
7	Computer Science Lab(PG)	600 sqft	1	600 sqft	27
8	Classroom-Computer Science (PG)	600 sqft	2	1200 sqft	54
9	Physics Lab Equipment Room	400 sqft	1	400 sqft	18

10	HoD Room with Toilet facility	400 sqft	2	800 sqft	36
11	Faculty Room with Toilet facility	800 sqft	2	1600 sqft	72
12	Dining Area for Faculties and Washroom	400 sqft	2	800 sqft	36
13	Air Conditioned Advanced Mini Conference Hall with Audio-Video Facilities	1000 sqft	2	2000 sqft	90
14	Reference Library and Reading Room	400 sqft	2	800 sqft	36
15	Recreation and Rest Room	400 sqft	2	800 sqft	36
16	Audio-Video Production Studio	600 sqft	2	1200 sqft	54
17	Toilets for students + wash room	30 sqft 50 sqft	20 4	600 sqft 200 sqft	36
18	Lift and ramps for the differently abled	1	1	-	10
19	Front area beautification, including interlock paving	2000 sqft	-	2000 sqft	40

20	**Visitors / VIP Lounge**	**300 sqft**	**2**	**600 sqft**	**27**
21	**Startups and Project Development Rooms**	**400 sqft**	**2**	**800 sqft**	**36**
22	**Placement Cell with Exclusive Interview Rooms**	**600**	**2**	**1200 sqft**	**54**
23	**Examination Hall**	**3000**	**1**	**3000 sqft**	**135**
Total Amount for constructing 24600 sqft building and other works for existing science courses = 1157 Lakhs (Eleven Crores One Hundred Fifty Seven Lakhs)					

Requirement for Science Block buildings – Phase II

Phase II (For New Science Courses to be proposed)					
Sl.No	**Item / Work**	**Specifications / Measurements**	**Numbers**	**Total Numbers / Measurements**	**Expected Cost (in Lakhs)**
1	**Under Graduate Class Rooms**	**600 sqft**	**12**	**7200 sqft**	**324**
2	**Post Graduate Class Rooms**	**400 sqft**	**10**	**4000 sqft**	**180**
3	**HoD Room with Toilet facility**	**400 sqft**	**4**	**1600 sqft**	**72**
4	**Faculty Room with Toilet facility**	**800 sqft**	**4**	**3200 sqft**	**144**
5	**Dining Area for**	**400 sqft**	**4**	**1600 sqft**	**72**

	Faculties and Washroom				
6	Air Conditioned Advanced Mini Conference Hall with Audio-Video Facilities	1000 sqft	4	4000 sqft	180
7	Reference Library and Reading Room	400 sqft	4	1600 sqft	72
8	Recreation and Rest Room	400 sqft	4	1600 sqft	72
9	Audio-Video Production Studio	600 sqft	4	2400 sqft	108
10	Toilets for students + wash room	30 sqft 50 sqft	40 8	1200 sqft 400 sqft	72
11	Special Purpose Research Laboratories	600 sqft	6	3600 sqft	162
12	Research Scholars Room	600 sqft	6	3600 sqft	162
13	Visitors / VIP Lounge	300 sqft	4	1200 sqft	54
14	Startups and Project Development Rooms	400 sqft	4	1600 sqft	72
15	Laboratories for proposed new	1200	3	3600 sqft	162

	courses(UG)				
16	**Laboratories for proposed new courses(PG)**	**600**	**5**	**3000 sqft**	**135**
17	**Placement Cell with Exclusive Interview Rooms**	**600**	**4**	**2400 sqft**	**108**
18	**Examination Hall**	**3000**	**1**	**3000 sqft**	**135**
Total Amount for constructing 50800 sqft building and other works for new science courses to be proposed 2286 Lakhs(Twenty Two Crores Eighty Six Lakhs)					

*Expected Costs are calculated based on Rs. 4500 per square feet which includes construction, wiring, plumbing and electrical accessories like fan, lights etc. Detailed plan and estimate will be provided on demand.

Furniture Requirements for Science Block Phase I

(For Existing Courses and Courses Applied)

Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	**Student Table(For Three students)**	**Materials as per customer requirements**	**90**	**10**
2	**Student Bench**	**Materials as per customer requirements**	**90**	**5**
3	**Conference Table**	**Materials as per customer requirements**	**2**	**2**
4	**Executive Wooden Chair**	**Cushioned - Materials as per customer requirements**	**120**	**10**
5	**Delegate Tables (To**	**Tables – Provisions for**	**30**	**15**

	occupy three persons)	**Laptop charging and mic - Materials and design as per customer requirements**		
6	**Student Chair**	**-**	**20**	**2**
7	**Student Table(For Single Student)**		**20**	**2**
8	**Sound proofing of mini conference halls**	**Sound proofing with ISO standard materials**	**2**	**6**
1	**Almirah -wooden**	**For storing chemicals** **200cm x 110cm x 50cm. Material- AW/Teak, with cupboard, glass door**	**3**	**1**
2	**Almirah -Steel**	**For storing equipment** **201 cm x 110cm x 50cm. Material- Steel, with cupboard, glass door**	**1**	**0.3**
3	**Wall fixing wooden cupboard**	**For storing reagents** **80cm x 80cm x 20 cm. Three compartments**	**2**	**0.1**
Total Amount 54 Lakhs (Fifty Four Lakhs)				

Electrical and Electronic item requirements for Science Block - Phase I

(For Existing Courses and Courses Applied)

Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	**Air Conditioners for mini conference halls**	**1.5 tonne – five star - copper – invertor type - ISO**	**6**	**3**
2	**Interactive touch screen board**	**Wifi enabled with software support – android compatible with screen casting – including protection cover**	**2**	**6**
3	**Sound Systems**	**250 Watts RMS – 2 speakers – including installations**	**2**	**2**
4	**Wireless Lavalier Microphone**	**Compatible with DSLR cameras**	**2**	**1**
5	**Wireless Microphone unit(with 3 miss)**	**Omnidirectional – Noise cancellation**	**2**	**2**
6	**Laptops**	**As per customer requirements**	**2**	**1**
7	**Online UPS / Pure sine wave invertor**	**3 KVA**	**4**	**4**
8	**Exhaust Fan**		**4**	**0.2**
Total Amount 20 Lakhs (Twenty Lakhs)				

Requirements for Computer Science Lab (UG)

- Phase I (For Existing Courses and Courses Applied)				
Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	Desktops / Laptops (Cutomised for scientific computations as per the new Computer Science syllabus)	AMD Ryzen™ 7 5700GE / Intel® Core™i7-160G7 Processor, 8GB DDR4 Corsair ,256GB SSD WD,21' monitor Samsung,Logitec keyboard and mouse	30	20
2	Networking	Networking of 30 computers	30	0.3
3	Switch / Routers	24 port with box	2	0.3
4	Computer Tables	3 Node Computer Tables with internal power and networking options(All electrical components in ISI standard)	10	3
5	Rotating Chairs	ISI standard	31	1.85
6	Table	Teakwood Table	1	0.10
7	Air Conditioners	2 tonne – five star – copper - invertor- ISI / ISO standard	3	1
8	Interactive touch screen board	Wifi enabled with software support – android compatible with screen casting –	1	2.85

		including protection cover		
9	Curtain works	customised		0.5
10	Floor mat	customised		0.5
11	Sound System	5.1 sound system with DOLBY atmos (including installation)	1	0.5
12	Online streaming web camera	HD cam from SONY / Canon	1	0.25
13	Light arrangements	Proper roof top energy efficient light arrangements preferably LED	30	1
14	Painting and sticker works	customised		0.5
15	Glass doors	Customised with steel frames	2	0.25
16	White board	ISI standard	1	0.1
17	Pure sine wave invertor	3 KVA - 150 Ah Batteries – Battery as per customer choice	3	3
	Total Amount 36 Lakhs (Thirty Six Lakhs)			

Requirements for Chemistry Lab (UG) - Phase I

(For Existing Courses and Courses Applied)

Sl. No	Item / Work	Specifications / Descriptions	Rate	Total Qty	Expected Cost
	Glass wares & equipment				
1	Pipette	20 ml, Glass, Borosil	200	20	4000

2	Burette	50 ml, Glass ,Borosilwith PTFE Key	600	25	15000
3	Conical flask	250 ml, Glass, Borosil	200	30	6000
4	Beaker	500 ml,Glass, Borosil	150	15	2250
5	Beaker	100 ml,Glass, Borosil	100	10	1000
6	Beaker	1000 ml,Glass, Borosil	300	2	600
7	Beaker	2000, Borosil	400	2	800
8	Burette stand with clamp	Metal	600	25	15000
9	Reagent bottle	250 ml, Ordinary glass	30	50	1500
10	Reagent bottle	200 ml, Ordinary glass, wide mouth	30	25	750
11	Solution bottle	40 ml, Borosil	200	20	4000
12	Pipette Graduated	5 ml, Borosil	140	5	700
13	Pipette Graduated	10 ml, Borosil	150	5	750
14	Pipette Graduated	5 ml, Borosil	150	2	300
15	Pipette Graduated	1 ml, Borosil	150	2	300
16	Glass rod, Ordinary	50 cm long, 5mm dia	10	50	500
17	Filter paper ordinary -sheet		5	100	500

18	Pipette stand		150	2	300
19	Glass bottle	2 litre	150	2	300
20	Glass bottle	5 litre	200	2	400
21	Water bath	Digital with 6 holes	12000	1	12000
22	Test tube holder		50	25	1250
23	Bunsen Burner		450	15	6750
24	Gas pipe	Material -rubber & steel, 8mm inner dia	150/ metre	1	3000
25	Analytical Balance	0.1g resolution, Minimum 1 kg capacity	6,000	1	6000
26	Test tube	5mL ,Borosilicate glass	7	100	700
27	Test tube	10 mL,Borosilicate glass	9	100	900
28	Analytical Balance	0.1mg resolution, 220g capacity	60,000	1	60000
29	Test tube	15mL Borosilicate glass	10	100	1000
30	Wiregauze		20	100	2000
31	Measuring jar	5mL,borosilicate	100	2	200
32	Spatula,	Nickel stainless steel	20	25	500
33	Tripod stand	stainless steel	50	25	1250
34	Watch glass	10 cm dia	20	20	400
35	Watch glass	big	35	15	525
36	Std flask	250 ml, borosil with ground glass stopper	300	25	7500
37	Std flask	500 ml, borosil with	350	2	700

		ground glass stopper			
38	Std flask	1000 ml, borosil with ground glass stopper	450	2	900
39	Std flask	100 ml, borosil with ground glass stopper	250	25	6250
40	Wash bottle	LDPE, 500ml capacity, flexible with screw cap	80	25	4000
41	Test tube stand Plastic		50	25	2000
42	China dish	Capacity 50ml	60	25	1500
43	Beral pipette	2 ml capacity	5	30	150
44	Boiling tube	30ml	30	30	900
45	Centrifugal tube	15ml, plane,borosilicate glass	40	50	2000
46	Centrifuge - rotor	Capacity 4x15ml, speed 3500rpm	5000	1	5000
47	Measuring jar	5mL,borosilicate	100	1	100
48	Measuring jar	25mL,borosilicate	150	1	150
49	Kipp's apparatus	Borosilicte glass ,500mL	8000	2	16000
50	Plastic Bucket with Lid,	15 litre, gemplast	150	2	300
51	Funnel	Glass, Upper dia-12 cm	40	3	120
52	Funnel	Glass,Upper dia-7 cm	20	30	600
53	Hand centrifuge with four tubes		2000	5	10000
54	Ultra centrifuge with 4-6 tubes	10000 rpm	20000	1	20000

55	Plastic water drum with lid	50 litre capacity	400	2	800
56	Plastic tray	H-7 cm, L-38 cm, W-28	250	20	5000
57	Plastic Bucket with Lid	20 litre, gemplast	220	2	440
58	Plastic mug	1 litre, gemplast	4	35	140
59	Plastic mug	0.5 litre, gemplast	2	25	50
60	Silica Crucible with lid	Capacity 20ml	475	30	14250
61	Sintered Glass Crucible	Capacity:50 mL,Borosil	350	30	10500
62	Electric Bunsen	60mm diameter,50mm depth, stainless steel cylindrical body, operated on 230 Volts, 50Cps, 10AC, 300watts	3000	10	30000
63	Filter paper	Ash less for quantitative purpose - sheet	25	50	1250
64	Whatman filterpaper no. 40	Ashless, circles, 110mm-packet	900	8	7200
65	Mortar and pestle		30	50	1500
66	Pipette bulb	Rubber for 20 ml pipette	30	15	450
67	Pipette controller	for 20ml borosil pipette)	400	2	800
68	Soxhlet apparatus,	borosilicate, transparent class, 500mL (500ml RB	2300	1	2300

		flask and attached water condenser)			
69	Crucible tongs	Stainless steel	50	25	1250
70	Clay pipe triangle		40	50	2000
71	White Tile	Porcelin, 6 inch x 6 inch	30	20	600
72	GLASS DESICCATOR WITH COVER KNOB & PORCELAIN PLATE ONE UNIT	150MM	7000	20	140000
73	Vacuum pump	Oil free, portable, no lubrication, valves made of SS316, built-in microsuction filter, Max. Pressure-35psi, motor-1/16 HP, flow-15L/min	15000	1	15000
74	Ph meter with electrode	Range 0 to 14 ph	14000	1	14000
75	Conductivity meter with conductivity cell	Range 0 to 1000 mhos	16000	1	16000
76	Abbe Refractrometer,	Brix: range 0-95%, accuracy 0.1%, R.I:range 1.3000-1.7000 nD, accuracy 0.0002 nD	95000	1	95000
77	Colorimeter 8 filter auto zero		5600	1	5600
78	Spectrophotometer	Range 340 to 960nm visible	52000	1	52000

79	Conical flask	100 ml	150	5	750
80	Viscometer,	with 20ml bulb	1500	8	12000
81	Thermometer 100oC		150	10	1500
82	Stop watch,digital		550	6	3300
83	Stanadard flask	50 ml	150	50	7500
84	Rubber cork ,set		400	1	400
85	Weighing bottle		85	10	850
86	Rectangular Hot Plate with Cast Iron Top & Energy Regulator,	25x40x15cm	9500	1	9500
87	Chemistry lab worktop (Work table)				
		Chemistry lab worktop (Work table)with cupboards, wash basin, gas connection facility, and reagent shelf. TRESPA, 90cm H X 240 cm L X 100 cm B	4.5 lakh	3	13.5 lakh
	Chemicals				
88	Zinc sulphate AR, 500 gm		920	1	920

89	Acetic Acid, 2.5Litre		1000	1	1000
90	Aluminum Carbonate, 500 gm		460	1	460
91	Aluminum chloride, 500 gm		450	1	450
92	Aluminum nitrate , 250 gm		142	2	284
93	Aluminum powder, 500 gm		910	1	910
94	Aluminum sulphate, 500 gm		650	1	650
95	Ammonium acetate, 500 gm		299	2	598
96	Ammonium borate 250 gm		260	2	520
97	ammonium bromide, 500 gm		310	1	310
98	Ammonium Carbonate , 500 gm		202	2	404
99	Ammonium chloride, 500 gm		200	6	1200
100	Ammonium ferrous sulphate AR, 500 gm		450	5	2250
101	Ammonium fluoride, 500 gm		570	1	570

102	Ammonium iodide, 500 gm		590	1	590
103	Ammonium Nitrate, 500 gm		250	1	250
104	Ammonium oxalate ,500 gm		280	2	560
105	Ammonium thiocyanate 250 gm		280	1	280
106	Barium Acetate, 500 gm		280	1	280
107	Barium Carbonate, 500 gm		270	1	270
108	Barium chloride , 500 gm		230	4	920
109	Barium fluoride, 500 gm		300	1	300
110	Barium nitrate, 500 gm		240	2	480
111	Barium Sulphate, 500 gm		310	1	310
112	Bismuth carbonate, 500 gm		410	1	410
113	Bismuth chloride, 500 gm		425	1	425
114	Bismuth nitrate ,500 gm		350	1	350

115	Borax , 500 gm		320	1	320
116	Boric Acid , 500 gm		380	1	380
117	Cadmium Chloride, 100 gm		520	1	520
118	Cadmium nitrate ,200 gm		520	2	1040
119	Cadmium Sulphate , 100 gm		550	1	550
120	Calcium acetate, 500 gm		500	1	500
121	Calcium carbonate , 500 gm		180	2	360
122	Calcium chloride, 500 gm		300	4	1200
123	Calcium Fluoride, 500 gm		280	1	280
124	Calcium nitrate, 500 gm		185	2	370
125	Calcium oxalate,500 gm		330	1	330
126	Calcium Sulphate ,500 gm		315	2	630
127	Ceric ammonium sulphate, 100 gm		2700	3	8100
128	cobalt chloride ,100 gm		600	2	1200
129	Cobalt nitrate,		269	1	2690

	500 gm		0		
130	Conc. HCl, 2.5litre		300	4	1200
131	Copper acetate, 500 gm		820	1	820
132	Copper Nitrate, 500gm		750	1	750
133	Copper sulphate,500 gm		600	2	1200
134	Dimehtyl glyoxime ,250 gm		800	4	3200
135	EDTA - disodium salt ,500 gm		420	4	1680
136	Eriochrome black T, 25 gm		300	4	1200
137	Ferric chloride, 500 gm		175	1	175
138	Ferrous sulphate AR, 500 gm		300	3	900
139	Ferrous sulphide sticks ,500 gm		240	4	960
140	Hydrogen peroxide, 500 ml		250	2	500
141	Lead acetate ,500 gm		320	2	640
142	Lead carbonate, 250 gm		450	1	450
143	Lead dioxide ,500 gm		500	2	1000
144	Lead Fluoride,		610	1	610

	500 gm				
145	Lead nitrate, 500 gm		500	2	1000
146	Liquor ammonia , 2.5litre		500	4	2000
147	Magnason reagent ,500 gm		220	4	880
148	Magnesium acetate,500 gm		300	1	300
149	Magnesium carbonate, 250 gm		490	1	490
150	Magnesium Fluoride, 500 gm		350	1	350
151	Magnesium nitrate, 500 gm		260	2	520
152	Magnesium chloride, 500 gm		355	1	355
153	Magnesium sulphate, 500 gm		325	3	975
154	Manganese acetate, 500 gm		360	1	360
155	Manganese dioxide ,500 gm		680	2	1360
156	Manganous nitrate , 250 gm		500	2	1000
157	Manganous sulphate, 500 gm		340	1	340
158	Mercuric		840	2	1680

	chloride,100 gm				
159	Mthyl Orange indicator , 100ml		150	10	1500
160	Nesslers reagent, 125ml		200	5	1000
161	Nickel carbonate, 500 gm		820	1	820
162	Nickel Chloride , 500 gm		755	1	755
163	Nickel nitrate , 500 gm		850	1	850
164	Nitric Acid 2.5 litre		1300	3	3900
165	Oxalic acid AR, 500 gm		250	4	1000
166	Phenolphthalein indicator , 100ml		150	10	1500
167	Potassium carbonate		245	1	245
168	Potassium Dichromate 500 gm		900	3	2700
169	potassium ferricayanide ,500 gm		410	1	410
170	potassium ferrocayanide ,500 gm		300	1	300
171	Potassium hydroxide ,500		750	2	1500

	gm				
172	Potassium iodide ,500 gm		1200	2	2400
173	Potassium permanganate 500 gm		500	3	1500
174	Silver nitrate 25 gm		2800	4	11200
175	Sodium acetate (hydrated), 500 gm		240	2	480
176	Sodium carbonate anhydrous, 500 gm		250	4	1000
177	Sodium hydroxide, 500 gm		250	4	1000
178	Sodium thiosulphate (hydrated), 500 gm		160	4	640
179	Stannous Chloride AR, 100 gm		510	2	1020
180	Starch, 500 gm		350	1	350
181	Strontium acetate		425	1	425
182	Strontium carbonate,,250 gm		320	1	320

183	Strontium chloride, 500 gm		330	1	330
184	Strontium nitrate , 500 gm		400	2	800
185	Sulphuric acid, 2.5 Litre		813	4	3252
186	Zinc nitrate, 500 gm		408	2	816
187	Zinc acetate		875	1	875
188	Zinc chloride		810	1	810
189	Acetophenone , 500ml		380	1	380
190	Aniline , 500ml		530	1	530
191	Anthracene, 500 gm		150	1	150
192	Aspartic acid, 100gm		490	1	490
193	Benzaldehyde, 500 ml		280	1	280
194	Benzoic acid, 500gm		610	1	610
195	Benzophenone, 250gm		650	1	650
196	Benzyl chloride,500 ml		386	1	386
197	Borsches reagent, 125 ml		120	3	360
198	Chitosan, deacetylation		1500	1	1500

	95%, 1Kg				
199	Chlorobenzene , 500ml		370	1	370
200	Cinnamic Acid, 500gm		1800	1	1800
201	Dimthyl ether ,1 L		900	1	900
202	Diphenyl amine, 250gm		574	1	574
203	Ethanol, 500 ml		220	1	220
204	Ethyl benzoate, 250ml		1350	1	1350
205	Glucose AR , 500gm		220	1	220
206	Glycerol, 2.5L		1070	2	2140
207	Glycine, 250gm		300	1	300
208	Leucine , 100gm		700	1	700
209	m-dinitrobenzene,500 gm		1300	1	1300
210	Methyl salicylate , 500 ml		300	1	300
211	Murexide AR (ammonium purpurate) , 5gm		310	2	620
212	Naphthalene, 500gm		292	1	292
213	Ninhydrin, 25gm		1100	1	1100

214	**nitrobenzene , 500ml**		**300**	**1**	**300**
215	**P-dichlorobenzene, 500gm**		**286**	**2**	**572**
216	**Phenol, 500gm**		**350**	**2**	**700**
217	**Phthalic acid, 500 gm**		**380**	**1**	**380**
218	**Phthalic unhydride, 500 gm**		**410**	**1**	**410**
219	**Resorcinol, 100gm**		**490**	**2**	**980**
220	**Schiffs reagent, 125 ml**		**130**	**3**	**390**
221	**Sodium chloride AR , 500gm**		**141**	**1**	**141**
222	**Tyrosine, 100gm**		**950**	**1**	**950**
223	**Urea, 500 gm**		**340**	**1**	**340**
224	**β-naphthol, 250gm**		**270**	**1**	**270**
Total Amount 22 Lakhs (Twenty Two Lakhs)					

Requirements for Physics Lab - Phase I

(For Existing Courses and Courses Applied)

Sl. No.	Item	Description	Numbers/ Measurements	Expected Cost
1	**Rectifiers**		**4**	**40120**
2	**Transistor Characteristics CB Mode**		**1**	**8260**
3	**Transistor Characteristics CE Mode**		**1**	**8260**
4	**Transistor Amplifiers CE and CC**		**1**	**17110**
5	**Negative Feedback Amplifier**		**1**	**7670**
6	**Half Adder using NAND Gates**		**1**	**7080**
7	**Full Adder Using NAND Gates-Construction & verification**		**1**	**7080**
8	**Phase Shift Oscillator**		**2**	**8968**
9	**LC Oscillator (Hartley)**		**2**	**8968**
10	**Operational Amplifier – inverting, Non inverting,**		**1**	**7670**
11	**Resonance**		**1**	**15340**
12	**Construction of Basic Gates using diodes and transistors**		**2**	**4248**
13	**Voltage multiplier**		**1**	**5900**
14	**Astable Multi-Vibrator Using IC 555**		**2**	**11800**
15	**Flip-Flop Circuits –RS and KJ**		**1**	**6136**

	Using IC's			
16	Verification of De-Morgan's Theorem using basic gates		1	7080
17	Photo diode Characteristics		2	21240
18	Photo transistor Characteristics		2	28320
19	RC Filters (low, high and band pass) With Power Supply and Signal Generator		2	10000
20	OPAMP – Adder, Subtractor		1	6500
21	e/m by Thomson's method		2	56640
22	Cauchy's constant using spectrometer		1	25134
23	Minimum Deviation		1	25134
24	Spectrometer i-d curve		1	31860
25	Laser light diffraction through a grating		3	37170
26	Birefringes of Quartz		1	29854
27	Air-wedge		1	24190
28	Thermal conductivity of non-metal (bad conductor)		3	27000
29	Potentiometer-Calibration of Voltmeters		2	23128
30	D1D2-Separtion- Resolving power of grating		1	35400
31	Conversion of galvanometer in to ammeter		2	25488

32	BG – High resistance by leakage method		2	51920
33	Dispersive power of a prism		1	25134
34	Planck's constant using LED		2	16520
35	Specific rotation of sugar using Polarimeter		3	66198
36	Numerical Aperture of An Optical Fiber		3	60180
37	AC sonometer with fixed frequency		2	8496
38	Bar Pendulum / Compound pendulum		3	26550
39	Kater's Pendulum		3	30090
40	Dispersive power of a prism		1	25134
41	Mirror Galvanometer		3	17700
42	Potentiometer – Calibration of ammeter		1	11564
43	Ballastic Galvanometer		2	21240
44	Galvanometer –Comparison of capacitance – De'sauthy's Method De'sauty		2	24780
45	Thevnin's and Norton's Theroem		2	21240
46	Lissajous Figures – Measurement of Frequency and Phase shift of Sinusoidal Signals using CRO		2	12732
47	Young's modulus by Cantilever		1	13570

48	Single slit Diffraction using laser Laser light diffraction through adjustable slit		1	25724
49	Dielectric Constant Of Liquids & Solids		2	33040
50	Study of Peltier and seebeck effect Thermo emf apparatus		2	34220
51	Thermal conductivity of metals by Searle's method		2	22420
52	CRO		6	172800
53	Vernier Calipers		10	10000
54	Physical Balance		8	20800
55	Convex Lens		15	750
56	Concave Lens		10	500
57	Convex Mirror		10	250
58	Torsion Pendulum		4	9200
59	Bending Apparatus		6	9000
60	Optic Lever		10	1000
61	Cantilever		20	7000
62	Screw Gauge		10	6000
63	Meter Scale		20	2000
64	Half Meter Scale		10	1000
65	Stop Watch		15	15000
66	Mercury Vapour Lamp Full Set		4	14800
67	Sodium Vapour Lamp Full Set		4	30000

68	Table Lamp		5	5000
69	Resistors		50	2500
70	Travelling Microscope		8	64000
71	Multimetre		4	11000
72	Op-amp		30	600
73	IC		50	2500
74	IC Trainer Kit		2	13600
75	Cylindrical Magnet		4	2400
76	Bread Board		20	5000
77	CRO Probe		15	6750
78	Daniel Cell		4	2000
79	De-soldering Pump		2	600
80	Digital Thermometer		2	2000
81	Dry Cell		6	240
82	Fly Wheel Apparatus		4	14800
83	Hare's Apparatus		4	3400
84	Slotted Weight		10	2500
85	Laclanche Cell		4	1200
86	Mirror Strip		10	500
87	Plane Glass		6	300
88	Newton's Ring Lens		6	750
89	Potentiometer		6	42000
90	Power Supply		10	31000
91	Dual Variable Power Supply		10	81000
92	Rheostat		6	16200

93	Delux Telescope		3	12300
94	Function Generator		10	72000
95	Soldering Iron		2	1000
96	Spectrometer		4	37000
97	Resistance Box		10	16000
98	Torsion Pendulum		4	13600
99	Digital Stop Clock		6	4800
100	Thermometer		6	1200
101	Nichrome Wire Coil		3	705
102	Searl's Vibartion magnetometer		6	5400
103	Voltmeter		30	15000
104	Compass Box		10	2500
105	Soldering Lead		4	1040
106	Soldering Wax		4	720
107	Sonometer		4	15600
108	Plug Keys		15	11250
109	Step Down Transformer		4	2400
110	Common Balance		6	28200
111	Digital Screw Gauge		4	11600
112	Digital Vernier Calipers		4	3600
113	Lees Disc Apparatus		4	35200
114	Stand for Torsion Pendulum		4	10000
115	Induction Coil		2	4000
116	Analytical Weight Box		2	2400

117	Capacitors		50	7500
118	Diodes		50	2500
119	Spectrometer Prism		10	4000
120	Tangent Galvanometer		6	16500
121	Ammeter		30	12000
122	Deflection Magnetometer		8	4400
123	Compound Pendulum		6	3300
124	Carey Foster's Bridge		4	11000
125	Melde's Apparatus		6	19200
126	Surface Tension Apparatus		2	16000
127	Capillary Tube		25	1250
128	Viscosity Apparatus		1	1499
129	Static Torsion Apparatus		4	12000
130	Bar Magnet		10	2000
131	Air Wedge		8	4000
132	Diffraction Grating		4	18000
133	Screw Driver Set		2	1000
134	Cutting Pliers		2	600
135	Wire Stripper		4	400
136	Clamp		10	4000
137	Rubber Tube		2	100
138	Lens Holder		4	200
139	White Screen		6	300
140	Rubber Cork		6	120
141	Beaker		20	1500

142	**Thread Roll**		**4**	**200**
143	**Extension Board**		**10**	**20000**
144	**Transistor**		**50**	**1250**
145	**Vibration Magnetometer**		**10**	**5000**
146	**Pointer**		**10**	**1750**
147	**Reading Telescope**		**4**	**12000**
148	**Spirit Level**		**6**	**450**
149	**Magnifier**		**10**	**1250**
150	**Battery Eliminator**		**6**	**7500**
151	**Galavanometer**		**20**	**5000**
152	**Writing Board**		**4**	**12576**
153	**Notice Board**		**4**	**20000**
154	**Circular Coil Apparatus**		**4**	**32000**
155	**Potentiometer Capacitor**		**40**	**1000**
156	**Experiment Table**	**Modular lab tables**	**500 sq. ft.**	**1000000**
157	**Anti-vibration Table**		**4**	**160000**
158	**Shelf**		**100 sq. ft.**	**180000**
159	**Lab Chair**		**25**	**100000**
Total Amount 40 Lakhs (Forty Lakhs)				

Justifications

There are no permanent buildings for the science departments. Currently, the departments are partially functioning in the ground floor of Administrative block and office rooms of the old office block. Existing infrastructure cannot be used to transform the science departments

into fully functional ones. Hence a separate science block is proposed. The proposed infrastructure facilities include the requirements found in most of the science departments in various reputed institutions. A mini conference hall is suggested in every department to conduct symposiums/conferences/seminars for the faculties and students. A reference library cum reading room is also proposed in every department to enable the students to access a repository of reference books.

Expected Outcome

The proposal enables the students in the college to learn science subjects at par with internationally acclaimed institutions. The college will also be upgraded to deliver higher education in science subjects for the socially and financially backward students in the region. As the departments are designed taking into consideration future research and development activities, scientific growth in the state can also be achieved.

2. HUMANITIES BLOCK

NMSM Govt. College Kalpetta is the only Government College in the Wayanad district under the University of Calicut. Currently, the college has three UG and three PG Humanities courses: i.e. BA Economics (started in 1999) and BA Mass Communication and Journalism (started in 1999), BA History (1981), M A Economics (2016), MA Mass Commination and Journalism (2016) and MA History (2020). The District has more than 60 Higher Secondary School Under Directorate of Higher Secondary Education alone. In addition, there are also more than thousand students who complete Higher Secondary Education under CBSC and other central and State Boards. There are only 6 Arts and Science Colleges in the District each having limited intake of students. Most of the courses run by the colleges at present are traditional courses. Hence the students have a limited number of options for higher education in the Humanities stream. They have to depend on other part of the state and country for modern course. The poor social and economic background of the region makes it almost impossible for the students have access to higher education in distance part of the country. To provide opportunities for the students to study UG and PG courses in the social science stream, the college now proposes on starting more social science courses. Currently, facilities for **10** UG science courses and **10** PG Arts and Humanities courses are proposed under the five-year plan, i.e., 2022 to 2027, which includes infrastructure, furniture, and labs for existing and new courses

Background

Existing Departments

Major Department with UG courses

i. Economics
ii. Mass Communication and Journalism
iii. History

Minor Departments without UG courses

i. Arabic
ii. English
iii. Hindi
iv. Malayalam
v. Political Science
vi. Physical Education.

Existing Courses with intake

Name of the course	Sanctioned Strength	Marginal Increase (20%)	Other Reservations (PH, Sports Quota etc	Total Intake
B A Development Economics	**40**	**8**	**7**	**55**
B A History	**50**	**10**	**8**	**68**
B A Mass Communication and Journalism	**40**	**8**	**7**	**55**

Existing Infrastructure facilities

Name of the course	Class rooms		Faculty Rooms	Lab	Library	Furniture	
	UG	**PG**				**Students Desk**	**Bench**
BA Development Economics	**3**	**2**	**1**	**0**	**0**	**40**	**40**
B A History	**3**	**2**	**1**	**0**	**0**	**40**	**40**
B A Mass Communication and Journalism	**3**	**2**	**1**	**0**	**0**	**40**	**40**

Currently the departments are functioning even without the basic requirements. Further, the class rooms are small in size, built more than 20 years ago and unable to provide sufficient seating capacity to the students.

Abstract of Expected expenditure of Humanities Block

Sl. No	Item / Work	Expected Cost of Building (In Lakhs)	Expected cost of Furniture, furnishing, electronic equipment etc (in Lakhs)	Total (In lakhs)
1	**Under Graduate Class Rooms**	**1046.25**	**292.8**	**1339.05**
2	**Post Graduate Class Rooms**	**523.8**	**116.7**	**640.5**
3	**Computer Lab(UG)**	**348.75**	**223.32**	**572.07**
4	**Networking and Hardware Room**	**18**		**18**
5	**HOD Room with Toilet facility**	**261.9**	**38.83**	**300.73**
6	**Department cum Faculty Room**	**348.75**	**86.3**	**435.05**
7	**Department cum Faculty Room for Physical Education Department**	**26.19**		**26.19**
8	**Physical Education Store room**	**36**		**36**
9	**Store room cum Dining Area for Faculties**	**270**	**15.5**	**285.5**
10	**Mini Conference Hall**	**135**	**35.04**	**170.04**
11	**Mini Theatre**	**45**	**42.87**	**87.87**
12	**Reference Library and**	**270**	**11.7**	**281.7**

	Reading Room			
13	Audio-Video Production Studio	104.62	27	131.62
14	Audio-Video Production Studio for Mass Communication Department	34.88	35.6	70.48
15	Exam hall, Class Room for Common Classes (English and Second Language)	90		36.15
16	Exam Hall and Classroom for Second Language	81	67.59	148.59
17	Toilets for students	135		135
18	Research Room & Discussion Room	351.9	42.4	394.3
19	Lift and ramps for the differently abled	20		20
20	Safety measure, security system, softwares, LMS etc		101	101
21	Front area beautification, including interlock paving	60		60
22	Media Lab (for Mass Communication Department)		40.1	40.1
23	Production Studio		35.6	35.6
24	Language Lab		40.29	40.29
	Total	4207.04	1252.64	5459.68

Rupees 54.60 Crores (Rupees Fifty Four Crore, Sixty Lakh Only)

Requirement of buildings / rooms

Sl. No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost in Lakhs
1	**Under Graduate Class Rooms**	**775 sqft**	**30**	**23250 sqft**	**1046.25**
2	**Post Graduate Class Rooms**	**582 sqft**	**20**	**11640 Sq. ft.**	**523.8**
3	**Computer Lab (UG) (Including a Media lab of Mass communication department, Language lab for English and language department.**	**775 sqft**	**10**	**7750 sqft**	**348.75**
4	**Networking and Hardware Room**	**400 sqft**	**1**	**400 sqft**	**18.0**
5	**HOD Room with Toilet facility**	**582 sqft**	**10**	**5820 sqft**	**261.90**
6	**Department cum Faculty Room**	**775 sqft**	**10**	**7750 sqft**	**348.75**
7	**Department cum Faculty Room for Physical Education Department**	**582**	**1**	**582**	**26.19**
8	**Physical Education Store room**	**800 sqft**	**1**	**800 sqft**	**36.00**
9	**Store room cum Dining Area for Faculties**	**600 sqft**	**10**	**6000 sqft**	**270.00**

10	Mini Conference Hall	1000 sqft	3	3000 sqft	135.00
11	Reference Library and Reading Room	600 sqft	10	6000 sqft	270.00
12	Audio-Video Production Studio	775 sqft	3	2325 sqft	104.62
	Audio-Video Production Studio for Mass communication Department	775	1	775	34.88
13	Exam hall, Class Room for Common Classes (English and Second Language)	1000	2	2000	90.00
14	Exam Hall and Classroom for Second Language	600	3	1800	81.00
15	Mini theatre	1000	1	1000	45.00
	Research Room	582 sqft	10	5820 sqft	261.90
15	Discussion room	200	10	2000	90.00
16	Toilets for students	500 sqft	600	3000 sqft	135.00
17	Lift and ramps for the differently abled				20.00
18	Front area beautification, including interlock paving	3000 sqft	-	3000 sqft	60.00
				93937 sqft	4207.04Lakhs

Requirements for UG Class Rom (UG)

Sl.No	Item / Work	Specifications / Descriptions	Rate per unit	Total Numbers For 10 Departments	Expected Cost (in Lakh)
1	**Single seater Desk Cum Bench for students**	**Desk 60 cm * 40 cm with Bench attached Steel frame and wooden top**	**4500**	**(70 x 3 x 10) = 2100**	**94.5**
2	**Teachers table**	**100 cm * 60 cm Steel frame with wooden top**	**6000**	**1 x 3 x 10 =30**	**1.8**
3	**Teachers chair**	**Standard Wooden armed chair**	**5000**	**1 x 3 x 10=30**	**1.5**
4	**Digital Interactive Multimedia Podium**	**With 21" or above touch display, Input available VGA x 1, HDMI x 2, USB x 2, RJ45, Audio input and output , can be Connected to Interactive Display panel Approximate dimensions: 668 (L) x 771(W) x 1150 (H) mm**	**200000**	**1 x 3 x 10=30**	**60**
5	**Digital interactive**	**Minimum 98 inch screen size, IR Touch**	**200000**	**1 x 3 x 10=30**	**60**

	display board	**technology, with VAG and HDMI input, output connectivity, VAG Supported by Windows and Ubuntu (open source) software,**			
6	**Wardrobe**	**Wardrobe with 70 cabins to keep students belongings .**	**250000**	**1 x 3 x 10=30**	**75**
					292.8

Requirements for PG Class Rom

Sl.No	Item / Work	Specifications / Descriptions	Numbers	Total Numbers For 10 Departments	Expected Cost (in Lakh)
1	**Single seater Desk Cum Bench for students**	**Desk 60 cm * 40 cm with Bench attached Steel frame and wooden top**	**4500**	**(25 x 2 x 10) = 500**	**22.50**
2	**Teachers table**	**100 cm * 60 cm Steel frame with wooden top**	**6000**	**1 x 2 x 10 =20**	**1.20**
3	**Teachers chair**	**Standard Wooden armed chair**	**5000**	**1 x 2 x 10 =20**	**1.0**

4	**Digital Interactive Multimedia Podium**	**With 21" or above touch display, Input available VGA x 1, HDMI x 2, USB x 2, RJ45, Audio input and output , can be Connected to Interactive Display panel** **Approximate dimensions: 668 (L) x 771(W) x 1150 (H) mm**	**200000**	**1 x 2 x 10 =20**	**40**
5	**Digital interactive display board**	**Minimum 98 inch screen size, IR Touch technology, with VAG and HDMI input, output connectivity, VAG Supported by Windows** **and Ubuntu (open source) software,**	**200000**	**1 x 2 x 10 =20**	**40**
6	**Wardrobe**	**Wardrobe with 25 cabins to keep students belongings.**	**60000**	**1 x 2 x 10 =20**	**12**
Total					**116.7**

Requirements for Common Classroom Second Language Class Rom

Sl. No	Item / Work	Specifications / Descriptions	Rate per item	Total Numbers For 2Rooms	Expected Cost (in Lakh)
1	**Single seater Desk Cum Bench for students**	**Desk 60 cm * 40 cm with Bench attached Steel frame and wooden top**	**4500**	**(80 x 2= 160) + (40 x 3 = 120)** **Total 280**	**12.6**
2	**Teachers table**	**100 cm * 60 cm** **Steel frame with wooden top**	**6000**	**1 x 5=5**	**0.30**
3	**Teachers chair**	**Standard Wooden armed chair**	**5000**	**1 x 5=5**	**0.25**
4	**Digital Interactive Multimedia Podium**	**With 21" or above touch display, Input available VGA x 1, HDMI x 2, USB x 2, RJ45, Audio input and output , can be Connected to Interactive Display panel** **Approximate dimensions: 668 (L) x 771(W) x**	**200000**	**1 x 5=5**	**10.0**

		1150 (H) mm			
5	**Digital interactive display board**	**Minimum 98 inch screen size, IR Touch technology, with VAG and HDMI input, output connectivity, VAG Supported by Windows and Ubuntu (open source) software,**	**200000**	**1 x 5=5**	**10.0**
	Wardrobe	**Wardrobe with 30 cabins to keep students belongings.**	**60000**	**1 x 5=5**	**3.00**
					36.15

Requirements for Computer Lab

Sl.No	Item / Work	Specifications / Descriptions	Rate Per unit	Total Numbers (for all 10 department)	Expected Cost In Lakh
1	**DESK TOP**	**All in one desktop— minimum requirements: HDD-1 TB, RAM- 6 GB, intel Core I 5 Processor, 21 inch screen, With Latest Windows and MS Office.**	**35000**	**30 x 9 = 270**	**9.45**

2	**Online UPS**	**5 kva capacity, 3 phase input, voltage input 160-260** **With Battery**	**100000**	**1 x 9=9**	**9**
3	**Revolving computer chair**	**The seat and back shall be made of PU foam of density 45 ± 2 Kg/m3 upholstered with changeable fabric upholstery covers (as per requirement). Back Size: 480 mm. (W) X 550 mm (H) Approx. Seat Size: 480 mm (W) X 550 mm. (D) Approximate**	**4500**	**35 x 9 = 315**	**14.17**
4	**Computer Table**	**Wooden table that can hold four desktops with small partition. Must have a sliding drawer for keyboard and mouse**	**15000**	**8 x 9= 72**	**10.80**
5	**Digital Interactive Multimedia Podium**	**With 21" or above touch display, Input available VGA x 1, HDMI x 2, USB x 2, RJ45, Audio input and output, can be Connected to Interactive Display panel** **Approximate dimensions: 668 (L) x 771(W) x 1150 (H) mm**	**200000**	**1 x 9=9**	**18.00**
6	**Digital interactive display**	**Minimum 98 inch screen size, IR Touch technology, with VAG and HDMI input,**	**200000**	**1 x 9=9**	**18.00**

	board	output connectivity, VAG Supported by Windows and Ubuntu (open source) software,			
7	Printer	All in one laser Wi-Fi printer	65000	1 x 9=9	5.85
	Networking	Networking of 30 computers	50000	1 x 9 = 9	5.0
	Switch / Routers	30 port with box	40000	1 x 9=9	4.0
	Air Conditioners	1.5 tonne – five star – copper – invertor type – ISO	50000	18	8.00
					223.32

Requirements for Dining cum Storage Area.

Sl. No	Item / Work	Specifications / Descriptions	Rate Per unit	Total Numbers (for all six dept.)	Expected Cost In Lakh
1	Table	Round table to with seating capacity of 6 to 8 people	20000	10	2.0
2	Chair	Wooded chair	5000	100	5.00
3	Washing facilities	Washing facilities with at least 3 wash basin, and fittings soap holder etc. with partition from the rest of the room	25000	In all 10 dining areas	2.5

4	**Wardrobe**	**With multiple partition for storing files and other details.**	**60000**	**10**	**6.0**
Total					**15.50**

Requirements for HOD Rooms

(Includes Physical Education Department cum HOD room; total 11 Rooms)

Sl. No	Item / Work	Specifications / Descriptions	Rate Per unit	Total Numbers (for all ten dept)	Expected Cost In Lakh
1	**Table**	**PREMIUM EXECUTIVE TABLE With four layer drawers on both side s**	**25000**	**1 x 11=11**	**2.75**
2	**Executive Chair**	**High Back & Revolving Rexene black & cushion Height adjustable gas lift fitted with castors**	**8000**	**1 x 11=11**	**0 . 88**
3	**Wardrobe**	**Wardrobe 230 CM(L), 200 CM (H) 45 cm (W) sliding door, with partition of different sizes for keeping file, books and other documents—made of MDF/ WPC or similar materials which is water and fire resistant. Must have safe keeping lock**	**75000**	**2 x 11 = 22**	**16.50**

4	**Computer, (all in one)**	**All in one desktop—minimum requirements: HDD-1 TB, RAM-6 GB, intel Core I 5 Processor, 21 inch screen,**	**35000**	**1 x 11=11**	**3.85**
5	**Visitor Chair**	**Wooden armed chair**	**5000**	**5 x 11 = 55**	**2.75**
6	**Printer**	**All in one laser / Ink tank wifi printer**	**25000**	**1 x 11=11**	**2.75**
7	**Laptop**	**Minimum 16 inch laptop with latest Windows and Office. Intel core i5 or above processer, 1 TB HDD and 8 GH Ram, 256 SSD**	**40000**	**1 x 11x=x11**	**4.40**
8	**TV**	**Smart TV of Minimum 45 inch screen size**	**45000**	**1 x 11=11**	**4.95**
Total					**38.83**

Faculty Rooms

(For 10 Departments)

Sl. No	Item / Work	Specifications / Descriptions	Rate Per unit	Total Numbers (for all 10 dept)	Expected Cost In Lakh
1	**Individual workstation for teachers**	**With pug for connecting laptop, printer, etc; pull out for mouse and printer ; 3 or 4 layer draws on both side of the table**	**20000**	**8 x 10 = 80**	**16.0**
2	**Wardrobe**	**Wardrobe 230 CM(L), 200**	**75000**	**3 x 10 =**	**22.5**

		CM (H) 45 cm (W) sliding door, with partition of different sizes for keeping file, books and other documents—made of MDF/ WPC or similar materials which is water and fire resistant. Must have safe keeping lock		**30**	
2	**TV**	**Smart interactive TV of minimum 45 inch screen**	**45000**	**1 x 10=10**	**4.5**
3	**Lap top**	**Preinstalled the latest version of windows OS and MS Office. At least 1 TB HDD, 8 GB or above Ram, 256 GB or above SSD, intel core i5 or above processer.**	**40000**	**8 x 10 = 80**	**32.0**
4	**Printer**	**All in one laser / Ink tank WiFi printer**	**25000**	**1 x 10 = 10**	**2.5**
5	**Chair**	**Executive chair for teachers**	**7000**	**8 x 10=80**	**5.6**
6	**Visitors chair**	**Armed Wooden chair for visitors**	**4000**	**8 x 10 = 80**	**3.2**
					86.30

Mini Conference Room

(For 3 conference rooms)

Sl. No	Item / Work	Specifications / Descriptions	Numbers	Total Numbers	Expected Cost

1	Chair	Single seating chair with writing space at the right side and mini storage facility	3500	50 x 3 = 150	5.25
2	Digital Interactive Multimedia Podium	With 21" or above touch display, Input available VGA x 1, HDMI x 2, USB x 2, RJ45, Audio input and output, can be Connected to Interactive Display panel Approximate dimensions: 668 (L) x 771(W) x 1150 (H) mm	200000	1 x 3 =3	6.0
3	Digital interactive display board	Minimum 125 inch screen size, IR Touch technology, with VAG and HDMI input, output connectivity, VAG Supported by Windows and Ubuntu (open source) software,	250000	1 x 3= 3	7.5
4	Audio and recording system	Wireless Microphone, tower microphone,	100000	1 x 3 =3	3.00

		speaker, sound control panel, recording camera,			
5	Chair for guest speak on the dais	Armed wooden chair with cushion	5500	6 x 3=18	0.99
	Sound Systems	250 Watts RMS – 2 speakers – including installations	100000	3	3.00
6	Video conferencing equipment's	Equipment for video conferencing and for telecasting	150000	3	4.5
7	AC	2 ton – five star – copper - invertor- ISI / ISO standard	40000	4 x 3 = 12	4.8
					35.04

Department Library

(For 10 departments)

Sl.No	Item / Work	Specifications / Descriptions	Numbers	Total Numbers	Expected Cost
	Book Shelves	Standard book Bookshelf of 3 feet (length) 5.5 feet (Height) x 1 feet (width) Metal body. Each rack must have separate glass door and can be locked.	6000	10 * 10= 100	6.0

Reading table	Rectangular / oval table with a seating capacity of 6 people	15000	1 x 10 = 10	1.5
Chair for reading table	Wooden chair	4000	7 x 10 =70	2.8
Journal rack	Journal display rack with facility to store back volumes (four layer—with each layer having space to display 5 journals)	15000	1 x 10 = 10	1.5
Table for librarian	Office table with draws	12000	1 x 10 = 10	1.2
Chair for librarian	Wooden armed chair	6000	1 x 10 = 10	6
Desktop	All in one desktop—minimum requirements: HDD-1 TB, RAM- 6 GB, intel Core i 5 Processor, 21 inch screen,	35000	1 x 10 = 10	3.5
				11.7

Audio- Video Production Room

(3 Rooms)

Sl.No	Item / Work	Specifications / Descriptions	Numbers	Total Numbers	Expected Cost
		Multimedia animation, Visual Effects and, web designing and Film Editing Creative Suites with Mac System Total Four Units, plus creative suite only for an existing Mac	**200000**	**1 x 3 = 3**	**6.00**
		Sound Recording Hardware and Software (Extended warranty and Initial training)	**75000**	**1 x 3 = 3**	**2.25**
		Multimedia Lab Mgt. Software	**75000**	**1 x 3 = 3**	**2.25**
		Server for website to upload and publish online contents.	**100000**	**1 x 3 = 3**	**3.00**
	Online UPS	**5 KVA capacity, 3 phase input, voltage input 160-260 with Battery**	**100000**	**1 x 3 = 3**	**3.00**
	Lab settings	**Lab furniture, Gypsum ceiling and studio lighting (Customization as per the lab requirements and ergonomics)**	**200000**	**1 x 3 = 3**	**6.00**
	Network equipment	**Network Equipment, wiring and installation**	**75000**	**1 x 3 = 3**	**2.25**

		Air Conditioning	60000	1 x 3 = 3	1.80
	Software.	Development of Multimedia Lab Portal with Content Management System (CMS) for training in digital production	75000	1 x 3 = 3	2.25
					27.00

Research Room

Sl.No	Item / Work	Specifications / Descriptions	Numbers	Total Numbers	Expected Cost
	Reading table	Wooden Cubicle type workstation with 4 seating capacity. The workstation must have plugs connection to connect desktop / laptop, file keeping drawers, sliding drawer for computer keyboard and mouse etc	50000	4 x 10 = 40	20
	Executive Chair	High Back & Revolving Rexene black & cushion Height adjustable gas lift fitted with castors	8000	8 x 10 = 80	6.4
	Journal rack	Journal display rack with facility to store back volumes	15000	1 x 10 = 10	1.5
	Wardrobes	Wardrobes for keeping the research articles,	35000	1 x 10 = 10	3.5

		document and other belongings of the research scholars. Must have 12 partition of 60 cm (L) * 45 cm (B) * 30 cm (W) each with a separate door with lock			
	Table for discussion rooms	Wooden Round table of 6 to 8 seating capacity	15000	2x 10 = 20	3.0
	Chair for discussion table	Wooden chair	5000	16 x 10 = 160	8
Total					42.4

Other electric, electronic and security system

Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	Security system	NVR cameras, high definition monitor, VMS, and approximately 1000 TB cloud storage facility		25
2	Fire and safety equipment	Fire and safety equipment installation and fixing in all rooms including smoke detection alarm.		20
3	Public addressing system	Speakers fixed on all rooms and verandas, and open places		5

		connecting the entire building		
4	**Online Learning Management system**	**LMS – server computer with software to provide online learning to students of the college and also to publish the online contents developed by different department**		**3**
5	**Software**	**Software for the effective teaching and learning of Journalism and Mass communication department**		**20**
6	**Software**	**Statistical software's like SPSS, Nvivo, etc. for economics Department**		**10**
7	**Online contents**	**Subscription to online journals, data base etc. to promote better teaching, learning and research**		**25**
	Total Amount			**108 Lakhs**

Electrical and Electronic item requirements for Humanities Block

Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	**Air Conditioners for mini**	**1.5 ton – five star - copper – invertor type -**	**18**	**8**

	conference halls , Computer lab, Recording school	**ISO**		
2				
3	**Sound Systems**	**250 Watts RMS – 2 speakers – including installations**	**10**	**6**
4	**Wireless Lavalier Microphone**	**Compatible with DSLR cameras**	**10**	**2**
5	**Wireless Microphone unit (with 3 mics)**	**Omnidirectional – Noise cancellation**	**10**	**2**
6				
7	**Online UPS / Pure sine wave invertor**	**3 KVA**	**12**	**12**
	Total Amount			**51 Lakhs**

Special Requirements for PG Department of Mass Communication and Journalism

The Department of Mass communication and Journalism, NMSM Govt. College Kalpetta, the first Govt. College department in the state offering an under graduate programme in mass communication, was started in 1999. Since its inception, the department has always strived to provide students a broader understanding of conceptual and applied skills necessary to engage with past and current complex media phenomena and technologies. The Department upgraded its programme to Master's in Communication and Journalism in 2016.

Audio Visual and Multimedia communication has now become a core component of mass communication. Hence, it is essential to equip the department with latest infrastructure and facilities. It is inevitable for the public higher education institutions in media education to have cutting edge facilities to compete with their academic counterparts.

i. MEDIA LAB

Sl.No	Item / Work	Specifications/ Descriptions	Numbers	Total Numbers	Expected Cost
1	**Desktop- Mac**	**I Mac 27" , 512 GB SSD, Key board+ Mouse**	**2**	**2**	**4,70,947.44**
2	**Laptop**	**i5, Windows+ office basic, SSD , minimum 8 GB Ram**	**2**	**2**	**1,94,405.00**
3	**Desktop**	**Intel i7 , Windows+**	**25**	**25**	**27,65,625.00**

		office basic			
4	24port switch	Cisco/Net gear			29,323.00
5	Wifi Router	Cisco/Net gear			
6	Supply and crimping RJ 45Connectors, I Pkt	Dlink/			5,894.10
7	RJ 45 I/O faceplate with RJ45 Female socket and back box as required	Dlink/			5,947.20
8	55" Commercial Display Panel	HDMI & RS-232 port and tilting Mounting Bracket	1	1	1,19,475.00
9	Windows–Based Hybrid Classroom Solution, Easyin–class & remote hybrid learning, Compatible with all Windows™	VC software Live stream to Kaltura™, Panopto™, YouTube™etc. Wirelessly share up to 6 screens simultaneously. White boarding& advanced collaboration features. Recording of AV content .Dual 4K display support. 1024–	1	1	3,45,150.00

		bit content encryption. upto 252 users or more			
10	Wall mount active speaker pair	APART/ Audac		1	28,302.30
11	High Speed HDMI™ Cable 1.8m (6ft)		40" OR ABOVE	2	5,451.60
12	6U wall mount rack with Power distribution		HS5	2	22,797.60
13	Speaker cable			15	1,947.00
14	Mic cable			25	3,245.00
15	CAT6 UTP cable , 305 Mtr	Dlink/		1	11,398.80
Total Price					40,09,909

Justifications

To set up a full-fledged media laboratory for training students in various media platforms, especially in print production. It has been essential for the Department to teach theoretical and practical aspects on newspaper editing, designing and layout. Also, the students will be acquainted with various pagination software. Training in newspaper editing and designing will equip students to compete in news as well as entertainment industry thereby enhancing placement opportunities to more youngsters. The limited facilities in the department are too little to meet the curricular needs of the students. The department offers subjects like News Editing, Graphic Designing, Online Journalism etc. Media lab is inevitable for the department

to offer individual training for students in news editing and designing, especially print media production. So, setting up a media laboratory in the department is envisioned.

ii. PRODUCTION STUDIO

Requirements for Production Studio and Control Room for Mass Communication Department

Sl No	Item	Specification	Units	Total Numbers	Expected Cost
1	**Video Camera**	**PxwZ280**	**1**	**1**	**4,78,125.00**
2	**Battery For Camera**	**Bpu70**	**2**	**2**	**52,500.00**
3	**Recording Media**	**2sbs64**	**1**	**1**	**45,375.00**
4	**Card Reader**	**SxsUs30**	**1**	**1**	**23,906.25**
5	**Carry Bag**		**1**	**1**	**5,805.60**
6	**Tripod**	**Mtt601a**	**1**	**1**	**18,868.20**
7	**Telepromptor**	**Tp650**	**1**	**1**	**84,362.63**
8	**Tab For Telepromtor**		**1**	**1**	**24,673.80**
9	**Lapel Mic -Wireless With Rack Mount Recevier**	**Xsw1Me2**	**2**	**2**	**46,328.69**
10	**TV/Monitor**		**1**	**1**	**23,164.34**
11	**Video Mixer**	**Se650**	**1**	**1**	**1,74,168.00**
12	**TV For Mutiviewer**	**40"OrAbove**	**2**	**2**	**1,01,598.00**
13	**Audio Mixer**	**Mg16xu**	**1**	**1**	**35,849.58**

14	Audio Monitor/Speaker	Hs5	2	2	30,479.40
15	Recorder	Hdr60/70	1	1	2,02,470.30
16	Up/Down Conversion	Dac70	1	1	54,427.50
17	HDMI Distribution	Vp840	1	1	21,771.00
18	HD Video Cable(100m)	1855a	1	1	8,425.20
19	Microphone Cable(100m)	1813a	1	1	11,894.40
20	HD Bnc Connector		10	10	3,337.04
21	Xlr3 Pin Male/Female		10	10	5,457.50
22	Stereo Phono Connector		5	5	1,843.75
23	HDMI, Other Cables & Connectors		1	1	11,800.00
24	Wall Box & Plates		1	1	5,900.00
25	Testing & Commissioning		1	1	47,200.00
26	iMAC System with Software	3.8ghz8-Core10th-GenerationIntelCore I7 Processor, Turbo Boost UpTo5.0ghz,16gb2666mhz Ddr4 Memory,RadeonPro5500XtWith8gbOfGddr6Memory,	1	1	3,08,880.00

		512gbSsdStorage.GigabitEthernet Magic Mouse2,MagicKeyboard-US English, Accessory Kit, App, Final Cut Pro			
27	I/O Card Video Out	Ultra-studio Mini Monitor	1	1	1,451.40
28	I/O Card For Audio	Umc202	1	1	12,676.53
29	Software for Audio Editing		1	1	50,682.89
30	Studio Grade Condesor Microphone	Mk4+Mks4+Mkw 4+Mzp40+Stand	1	1	37,990.40
31	Audio Monitor /Speaker	Hs5	2	2	30,479.40
32	Headphone		1	1	2,902.80
33	Preview TV		1	1	31,930.80
34	Sony Mirrorless Camera	Ilce-7m3+28-70MmZoomLenss	2	2	3,69,039.60
35	Tripod	Mtt609a	2	2	52,250.40
36	Light with Stand		1	1	36,875.00
37	Light Meter	L-308x-U	1	1	20,400.00
38	Memory Card		2	2	3,773.64
39	Wireless Lapel Mic	XswD Lavalier	2	2	42,922.50
40	Laptop/Desktop	XswD Lavalier	1	1	88,500.00
41	Grid, MS Suspenders Cum Clamps,		1	1	77,308.29

	40NBClass"B"Pipe.				
42	Direct Light Distribution Board For All The Lighting Points,		1	1	71,922.36
43	Grid Mount Opto Isolated DMX AmplifierUnit8Channel.		1	1	34,196.40
44	12DimmerChannel With12Faders		1	1	71,519.33
45	Power Networking and DMX Networking Using 3cX1.5Sqmm		1	1	71,519.33
46	90WLED Soft b panel Light	5600K Complete with 1 Diffuser with 2mtrCable	8	8	3,47,174.88
47	4leafBandoor		8	8	11,724.48
48	Gel Frame		8	8	2,638.01
49	180W LED Soft Panel, 5600°KCompleteWith1Diffuser with 2mtr CableButWithoutAnyAccessories.		2	2	1,40,395.22
50	4 Leaf Barn door		2	2	6,301.91

51	Gel Frame		2	2	1,156.16
52	Light Mounting Accessories	C-Clamp +Safety Bond + Name Plate	10	10	17,098.20
53	Fixed Green Chroma Arrangement Along With Green Chroma Fabric.	Size:3mX2m	1	1	55,959.97
54	Supply, Installation, Testing and Commissioning of Complete Rigging and Lighting System.		1	1	1,28,915.00
55	Daikin1.8TonInverter3star		1	1	12,460.00
56	Acoustic Wooden Slotted Panel: AClean, Linear Approach To Acoustics. Profiles are Created with 2,3Or4MmGrooveWith		1	1	85.50
57	Acoustic Stretch Fabric Panel Per Sqft.		1	1	85.50
58	AcousticCarpet7mmThickPerSqft.		1	1	33.30

59	**20mmSoftFiberTile PerSqft.**		**1**	**1**	**33.30**
60	**Acoustic Door**		**1**	**1**	**15,750.00**
61	**Partition Work with Cement Board And100mmAcoustic InfillPerSqft**		**1**	**1**	**0.00**
Total Cost					3559817/-

Justifications

Given the fast-changing nature of the media world and media education in global scenario and the cut throat competition in media education, it has been essential to make the higher education institutions in public sector equipped with the trends to produce high quality professionals to meet the needs of the multi-tasking environment in Industry. Setting a production studio facility with a will help materialize this goal of extending education service in this field.

Expected Outcome

Professional skill enhancement in television production offers many more job opportunities for students. Extending the production of short films, documentaries, news programmes with professional equipment will ensure professional training in real settings. The department offers subjects like Documentary Film Production, Television and Radio Production, film studies, and photojournalism. Even then, deficiency in facility and infrastructure hinders advancement in our pursuits of excellence in media production training, especially on electronic media front. It is against this background that this proposal for production studio is envisioned.

iii. MINI THEATRE CUM SEMINAR HALL

- Proposed Structure of Mini Theatre cum Seminar Hall
- The basic system of the theatre is the small cinema hall which project digital cinema contents as well as 4K, Ultra HD, 3D media.
- There shall be a control room for the equipment used for media projection and control.
- A 100 seat cinema hall with professional preview theatre quality surrounds sound system and screen.

- An additional public address system and stage space attached to perform for open forums and discussions

Proposed functions

- Screening of Digital Cinema Content
- Screening of Digital HD Audio-visual Content
- Conducting small seminars and open forums
- The proposed deliverables for the mini theatre cum seminar shall be grouped into broad categories as follows:

Technical Requirements and Specifications

Sl No	Item		Number	Estimated Cost
1	**SITC of True 4K UHD resolution with 8.3M pixels projector with100% DCI-P3/Rec.709 color space, HDR-PRO™ projector- optimized HDR technology (HDR10/HLG support), 1800 ANSI Lumens, , Contrast 100,000:1, with mounting hardware**	**WS5700**	**1 Nos.**	**3,25,000.00**
2	**SITC of 200" diagonal acoustic transparent fixed frame screen with 3D 4K fabric with required GI fabrication to support screen as per site requirement.**		**1 Nos.**	**1,20,000.00**
5	**SITC of Point source 10" co-axial speaker, 150W AES/600W peak, 118dB continuous, 124dB peak @ 1m**	**CX10SMP**	**3 Nos.**	**44,500.00**

6	SITC of Point source 5" co-axial speaker, 150W AES/600W peak ,114dB continuous, 120dB peak @ 1m (Surround speakers)	CSX5	8 Nos.	38,590.00
	SITC of Point source 5" co-axial speaker, 150W AES/600W peak ,114dB continuous, 120dB peak @ 1m (ATMOS)	CSX5	2 Nos.	38,590.00
7	SITC of dual 10" Active Subwoofer, 38Hz to 500Hz, 500W AES, 2000W peak, Maximum SPL 122dB continuous, 128dB peak @ 1m	IW210A	2 Nos.	98,567.00
8	SITC of amplifier 4x250Watts energy star rated class D amplifier Signal / Noise > 90 dB, THD+N (@ 1 kHz) < 0.1%, Crosstalk (@ 1 kHz) > 70 dB. Frequency Response (± 3 dB) 20 Hz - 20 kHz, protection ckt for overload/Short circuit/Over heat/ signal limit etc.	EPA 254	3	78,990.00
9	SITC of 11.2 Channel Full 4K Ultra HD Network AV Surround Pre-Amplifier with HEOS, Now available – control with Amazon Alexa voice commands.	AV7705	1 Nos.	2,50,000.00
10	SITC of Video streamer with4K HDR Ready, 1TB storage Xvid/DivX/ASF/AVI/MKV/MOV/M2TS/MPEG-TS/MP4/WEB-M, AI-enhanced upscaling for 720p/1080p to 4K up to 30 FPS,	1	Nos.	37,500.00

11	Supply and laying/termination of 2 Core shielded microphone cable	20	Mtr	112.00
12	3Ft HDMI-HDMI Cable	1	Nos.	2,850.00
13	supply and laying of 2 core 1.5 sq mm PVC insulated overall jacketed Cu Conduction Loudspeaker Cable.	200	Mtr	145.00
14	16U Rack with Fan , Power distributor, castors, front glass door with all required accessories	1		19,500.00
15	SITC of ISI marked 25mm PVC conduit / casing capping as required for cabling	150	Mtr	80.00
16	XLR, spakon and other interconnects	1	lot	8,600.00
17	15Mtr Active HDMI-HDMI Cable	1	Nos.	26,450.00
18	Air Conditioning (4Nos) and Ducting		4	300000/-
19	Acoustics & Interior –		-	100000/-
20	Seating-		100	600000/-
21	Fire & Safety System-		1	300000/-
22	UPS System-		1	300000/-
			Total Cost	4286644/-

Justifications

The UG and PG curriculum covers theoretical and practical dimensions broadcast, film and online media integrating latest trends in communication. A Mini Theatre cum seminar hall is needed in the department to:

- To screen digital cinema/media contents in a state-of-the-art environment for in-house academic purpose.
- To preview for analysis and evaluation of the audio-visual media contents produced by the department.
- To experience cinema/audio-visual contents as the directors envisioned.
- To conduct film festivals, open forums in a small cinema environment.

Apart from the department Teachers and student community interested in media and communication related academic and extension activities can also utilise the space.

Expected Outcomes

This proposal is to modernize the mass communication education facilities by setting up a full-fledged MediaLab, Production studio and mini theatre cum seminar hall for the use of the students of all programmes in the Department of Journalism and Mass Communication. Once the proposal is materialized the Department will be equipped with:

- Modern production facilities in digital and audio visual sectors
- A mini theatre cum seminar hall with digital screening facilities
- A full-fledged media laboratory for providing extensive training in news production process.

Special Requirement for Department of English

i. ENGLISH LANGUAGE LABORATORY

The Language Labs are becoming pivotal within educational institutions since the functions and possibilities they offer are much higher than the ones in the traditional teaching- learning system. The lab offers an efficient way to enrich the English language learning process. It aims at confidence-building among students for interaction and presentations in English. A fully fledged English language lab is need of the hour for the college because at present the language lab is insufficient for the demands.

Requirements for Language Lab

Sl No	Item Description	Unit Price	Qty	Expected Amount
1.	**Master Desktop Computer. Intel corelate i5 lastest gen, 4x2 GB RAM, 2 TB HDD, 18.5" Monitor, DVD, Writer, Key board, Mouse**	**50,000**	**01**	**50,000**
2.	**Base Digital English Language Lab Software. 1+30 version**	**150,000**	**01**	**150,000**
3.	**Node Computers(Laptops) Intel core i3,4GB RAM,1 TB HDD, 15.6" MONITOR**	**40,000**	**40**	**1,600,000**
4.	**Digital Language Lab software for Node systems**	**10,000**	**40**	**400,000**
5.	**Key boards and Mouse (for additional attachment to laptops)**	**1,000**	**40**	**40,000**
6.	**Head sets and microphone (1 each for every system)**	**1,000**	**41**	**41,000**
7.	**LA Networking** **16 port switches - 4 nos** **16 Patch panel - 4 nos** **6 u Rack - 2 nos** **Patch cords - 70 nos** **IO Boxes -41 nos** **RJ 45 jacks - 70nos** **Cables - 1000 mtrs** **Casing and capping** **LAN Configuring - 41nos**	**200,000**	**01**	**200,000**

8.	**UPS(5.0 KVA 120 VOLT ONLINE sign wave UPS with cable and fitting** **Batteries with stand.120 AH Tabular ,to backup minimum 3 hours for the whole systems**	**60,000** **20,000**	**03** **30**	**180,000** **600,000**
9.	**Teacher Chair. Wooden chair with armrest , plank seat and back rest**	**8,000**	**01**	**8,000**
10.	**Teacher Table with server rack (2 draw, 2 cupboard, 1 keyboard draw 120x75x60 cms)**	**20,000**	**01**	**20,000**
11.	**Node desk(150x75x40 cms , to accomodate2 systems with 2 keyboard draws and foot rest)**	**10,000**	**20**	**200,000**
12.	**Seating System** **150x40x90 cms with backrest, 1.5 square GI legs and MS angler /square GI pipe top frame**	**10,000**	**20**	**200,000**
13.	**Air Conditioner (1.5 – five star – copper- invertor type ISO)**	**60,000**	**04**	**240,000**
14.	**Printer**	**50,000**	**02**	**100,000**
	TOTAL			4,029,000

Justifications

In this globalised world competency in English communication is a prerequisite to become successful in life. Since labour is extensively globalized getting an employment in various positions, students need fluency in communication. However, students often find it difficult to speak English without inhibition. A fully-fledged Language Lab provides an effective platform for the language aspirants to acquire competency in English. Practice is essential for the considerable mastery of language skills.

Expected Outcome

Language lab offers an immersive linguistic experience. Apart from the classroom lectures that students attend, the practical classes held in language labs hone their ability to comprehend the language in a better way. It will enhance English language skills, and practice soft skills with delight.

Requirement for Department of History in Detail

i. HERITAGE MUSEUM

NMSM Govt. College Kalpetta is the only Government College in the Wayanad district under the University of Calicut which was started in October 1981. In 1983, the College moved to its permanent campus enclosed by a green and cool landscape at Vellaramkunnu 4 kilometres from Kalpetta through Mysore- Calicut Highway (NH 766). The entire landscape spanning around 25 acres has been donated by late Sri. Neelikandy Moideen Sahib to the college sponsoring committee. The College was upgraded in 1989 to the status of a degree college with the commencement of B.A. in History. In 2016, the college has opened a heritage museum and photo gallery as part of the Department of History. The Government of Kerala sanctioned the post graduate course in History on 2020. At present it is the only college in the district which offers post graduate studies in History. Also there is no research facility available in the district in the discipline of History. Hence the students have a limited number of options for higher education and research in the Social Science stream. To provide opportunities for the students to research, the college now focuses on starting more research centres. Proposals for starting research centres for the existing PG courses and starting new Archaeology course is already under process. Currently, facilities for heritage museum proposed under the five-year plan, i.e., 2022 to 2027, which includes infrastructure, furniture, and audio visual theatre.

Background

Existing Museum and Photo gallery

- 6m x 6m room of heritage museum
- 6m x 6m room of photo gallery
- 1 Desktop
- Basic furniture
- Models of Evolution of Man, Indus Valley Civilization, Megalithic Monuments and traditional utensils

- Pictures of famous historians

Requirement of buildings / rooms*

Sl. No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost (in Lakhs)
1	**Gallery includes separate block for different fields like ethinic gallery, art and craft gallery**	**6000 sqft**	**1**	**6000 sqft**	**300**
2	**Lecture hall**	**400 sqft**	**1**	**400 sqft**	**16**
3	**Mini Conference hall**	**800 sqft**	**1**	**800 sqft**	**32**
4	**Audio Visual Theatre**	**1200 sqft**	**1**	**1200 sqft**	**48**
5	**Reception**	**400 sqft**	**1**	**400 sqft**	**16**
6	**Office room**	**400 sqft**	**1**	**400 sqft**	**16**
7	**Networking and Hardware Room**	**400 sqft**	**1**	**400 sqft**	**16**
8	**Maintenance room**	**400 sft**	**1**	**400 sqft**	**16**
9	**Room for digital repository**	**400 sqft**	**1**	**400 sqft**	**16**
10	**Portico**	**400 sqft**	**1**	**400 sqft**	**16**
11	**Director Room with Toilet facility**	**400 sqft**	**1**	**400 sqft**	**16**
12	**Dining Area for Office Staff, Washroom and Toilet**	**400 sqft**	**1**	**400 sqft**	**16**
13	**Toilets for visitors (Gents, Ladies and differently abled**	**100 sqft**	**3**	**300 sqft**	**12**
14	**Lift and ramps for the differently abled**				**10**
15	**Front area beautification, including**	**2000**	**-**	**2000 sqft**	**80**

	interlock paving	**sqft**			
16	**Underground area c for parking and Generator room**	**5000 sqft**	**1**	**5000 sqft**	**100**
Total Amount for 18900 sqft					**726 Lakhs**

*Detailed plan and estimate will be provided on demand

Furniture Requirements for Heritage Museum

Sl.No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	**Wooden Glass Wardrobe**	**4000 sqft. Materials as per customer requirements**	**80**	**80**
2	**Table**	**Materials as per customer requirements**	**10**	**1**
3	**Conference Table**	**Materials as per customer requirements**	**1**	**3**
4	**Executive Wooden Chair**	**Cushioned - Materials as per customer requirements**	**360**	**30**
5	**Delegate Tables**	**Tables – Provisions for Laptop charging and mic – Materials and design as per customer requirements**	**20**	**5**
6	**Student Chair**	**-**	**100**	**5**
7	**Student Table(For Single Student)**		**100**	**5**
8	**Sound proofing of mini conference halls and Audio**	**Sound proofing with ISO standard materials**	**12**	**40**

	Visual theatre			
9	Curtain works	Customised		2
10	Floor mat	Customised		10
11	Painting and sticker works	Customized		10
12	Rotating Chairs	ISI standard	10	1
13	Table	Teakwood Table	10	1
14	White board	ISI standard	10	1
	Total Amount			142 Lakhs

Electrical and Electronic item requirements for Heritage Museum

Sl.No	Item / Work	Specifications / Descriptions	Total Number	Expected Cost(in Lakhs)
1	Air Conditioners for mini conference hall and Audio Visual theatre	1.5 tonne – five star – copper – invertor type – ISO	18	8
2	Interactive touch screen board	Wi-Fi enabled with software support – android compatible with screen casting – including protection cover	3	9
3	Sound Systems	250 Watts RMS – 2 speakers – including 87installations	3	3
4	Wireless Lavalier Microphone	Compatible with DSLR cameras	3	1
5	Wireless Microphone unit(with 3 mics)	Omnidirectional – Noise cancellation	3	1

6	Laptops	As per customer requirements	6	3
7	Online UPS / Pure sine wave invertor	3 KVA	12	12
8	Diesel Generator	62.5 k VA Diesel Generator, KG1-62.5 AS	1	2
9	Desktops	As per customer requirements	6	4
10	24 port switch	As per customer requirements	3	1
11	Wifi Router	As per customer requirements	3	1
12	Supply and Criming RJ 45 Connectors	As per customer requirements	2	1
13	RJ 45 I/O faceplate with RJ45 Female socket and back box as required	As per customer requirements	2	.5
14	55" Commercial Display Panel With HDMI & RS-232 port and tilting Mounting Bracket	As per customer requirements	2	3
15	CAT 6 UTP cable, 305 Mtr	As per customer requirements	2	.5
16	Mic Cable	As per customer requirements	10	1
17	Speaker Cable	As per customer requirements	15	.5
18	6 U wall mount rack with power distribution	As per customer requirements	3	1
19	High speed HDMI Cable	As per customer	3	1

		requirements		
20	Wall mount active speaker pair	As per customer requirements	2	2
21	Windows-Based Hybrid Classroom Solution, Easy in class & remote hybrid learning, Compatible with all Windows VC software Live stream to Kaltura, Panopto, You Tube etc. Wirelessly share up to 6 screens simultaneously. White boarding & advanced collaboration features. Recording of AV content. Dual 4 K display support. 1024 bit content encryption up to 252 users or more	As per customer requirements	1	4
12	Sound System	5.1 sound system with DOLBY atoms (including installation)	4	4
12	Online streaming web camera	HD cam from SONY / Canon	1	0.25
13	Light arrangements	Proper roof top energy efficient light arrangements preferably LED	100	5
14	Vacuum Cleaner	As per customer requirements	3	1
15	Pure sine wave invertor	3 KVA – 150 Ah Batteries – Battery as per customer choice	3	3
16	Interactive touch screen board	Wifi enabled with	2	6

		software support – android compatible with screen casting – including protection cover		
17	**CCTV Camera**	**As per customer requirements**	**12**	**6**
118	**Video Library of antiques**	**As per customer requirements**	**-**	**10**
	Total Amount			**94.75 Lakhs**

Other Requirements for Heritage Museum

Sl. .No	Item / Work	Specifications / Descriptions	Total Numbers	Expected Cost (in Lakhs)
1	**Photo gallery of 100 personalities**	**Canvas print and Wooden frame**	**100**	**30**
2	**Working Models of different civilization**	**As per customer requirements and Proper material**	**10**	**50**
3	**Craft gallery**	**As per customer requirements**	**5**	**25**
4	**Ethnic gallery**	**As per customer requirements**	**10**	**25**
	Periodic Maintenance for the next 2 years	**As per customer requirements**	**-**	**20**
	Total Amount			**150 Lakhs**

Grand Total – Rupees 1112 Lakhs Only

Justifications

Current infrastructure cannot be used to transform the existing heritage museum into fully functional ones. Hence a separate museum complex is proposed. The proposed infrastructure facilities include the requirements found in most of the heritage museums in various parts of the world. The Neolithic and Megalithic monuments can be seen in different parts of Wayanad. Edackal cave is the only such kind of site located in Kerala. Due to the historical importance of Wayanad thousands of people in and abroad the country frequently visits the district. So now it became one of the prime tourism destinations of the country. A mini conference hall is suggested to conduct symposiums/conferences/seminars for the faculties and students. An Audio Visual theatre is proposed to enable the students, researchers and the public to access a repository of reference. The students of history are the ultimate beneficiaries of the Heritage Museum. If the govt. constructs a museum under Collegiate Education Department, it will help to start new courses on Museology and Archaeology. At the same time it can attract the public those who genuinely interested the culture and heritage of the region. Appointment of a museum curator and 10 supporting staff for various fields are essential for the smooth functioning of the Museum.

Expected Outcome

The proposal enables the students in the college to learn Social Science subjects at par with internationally acclaimed institutions. The college will also be upgraded to deliver higher education in Social Science subjects for the socially and financially backward students in the region. As the departments are also designed for expanding research and development activities, scientific growth in the state can also be achieved. The researchers, students and the public will get ample opportunity to nurture their talents. We will be able to train students and the researchers about the functioning of the Museum. The students will get adequate opportunities in the field of Museum.

Justifications for a Separate Humanities Block

As stated above, there are only 6 Arts and Science Colleges in the District each having limited intake of students approximately 250 to 300 students per college. In the District, there are 61 higher secondary schools under the Directorate of Higher secondary Education, Government of Kerala. In addition, there are more than a thousand students who complete higher secondary or equivalent course every year from schools under CBSE, and ISC and other states boards. With the limited intake of the regular colleges, most of the students are

forced depend on colleges in other district and outside state for higher education. The District of Wayanad is one of the most backward and under- developed regions of the State. As Plantation work, agriculture labour and casual labour being the major source of income, most families struggle to meet both ends. Hence, higher education outside the district or state is not affordable for the students' community of the district. Since the intake of the regular colleges is limited, students are forced to depend on private and correspondence education. In addition, most of the courses run by the colleges at present are traditional programmes. In addition, The College also lack modern infrastructure facilities. To enhance the teaching-learning quality of the education and to prepare the students to stand at par with the rest of the country, the college need to be equipped with modern infrastructure facilities

The focused of Education till date were limited to primary and secondary education and the higher education sector were altogether neglected. Students under Arts and Humanities stream are denied the opportunities of having modern courses. The poor social and economic background of the region makes it almost impossible for the students have access to higher education in distance part of the country. To provide opportunities for the students to study UG and PG courses in the social science stream, the college now proposes on starting more social science courses. The modernization of the infrastructure facilities of the existing course and starting of modern courses are necessary to improve the social and economic backwardness of the region. Currently, proposals for 10 UG courses and **10** PG under Arts and Humanities stream are proposed under the five-year plan, i.e., 2022 to 2027, which includes infrastructure, furniture, and labs for existing and new courses.

Current infrastructure cannot be used to transform the existing Humanities departments into fully functional ones. With the very basic meagre infrastructure, students who complete course are often rejected in the job market as they are not equipped to compete with the students from the institution which has all the modern learning environment. Hence a separate Humanities block is proposed which meet the quality and infrastructure facilities of international standard. The proposed facilities include the infrastructure found in most of the reputed institutions. Computer labs, discussion rooms, reference library cum reading room etc are proposed in every department to enable the students to access online learning material, repository of reference books including e books, and to equip the students with latest software's for data analysis and project works.

Expected Outcome

Lack of quality education is one of the basic reason for the backwardness of the region. For the development of the region, students must be given opportunity to have education at

national and international standards. The students who undertake modern course will become competent with the rest of the world and will be able to find job in the existing as well as emerging job market. They also will be able to take up business and self-employment opportunities which will give boost to the social and economic development of the region. The absence of sufficient research opportunities to students who complete PG can also overcome by converting all the department to research departments.

Upgrading the college to international standards will also give opportunities to girl students and students from socially and economically backward segment of the society to have education at par with the rest of the world. This will give a tempo to the ongoing effort of the government to bring social economic and gender equality in the society.

3. COMMERCE BLOCK

The P.G. Department of Commerce, NMSM Government College Kalpetta, was instituted in 1982. The department is one of the reputed and most sought after departments in commerce in the state of Kerala. The Department has been offering under graduate programme relevant to the industrial requirements in an exemplary manner since 1991. An important milestone in the history of the Department was the starting of M.com Course during the academic Year 1993-94. The establishment of Post Graduate Department of Commerce was a blessing to the entire society, especially for the backward and weaker sections of the people in most tribal populated Wayanad District. It is committed to serve the economically and socially marginalized sections of society by providing quality education to the aspirants, especially those belonging to Wayanad and nearby districts. The Admission is open to all, irrespective of caste and creed, and their rights of conscience are respected.

Presently the intake of UG programme limited to 50 and it is 20 for PG course. The demand ratio for the commerce stream is too high and most of them compel to continue their higher education in the unaided colleges. In order to provide more options for higher education in the commerce and management stream, new courses and infrastructural facilities are inevitable. Now the proposal of infrastructure and other facilities for staring new courses in commerce is put forward. The proposal also gives provision for the enhancement of existing facilities of the commerce department.

Existing Course with intake

Under Graduate Programme:

The department offers B.Com with finance, under Calicu University Choice based Credit and Semester System (CUCBCSS).

Programme duration: Three Years including Six Semesters

Core area of the programme relevant to the present industry requirements and the syllabi includes the courses like, Financial Management, Accounting, Taxation, and Business Laws.

Sanctioned strength: 50

Post Graduate Programme:

The department offers M.Com with finance, which offers wide opportunity in various fields of Industry, Management, Teaching, Civil Service and Research.

Programme duration: Two Year including Four Semesters

Core area of the PG programme relevant to cater the needs of the higher education, Industry and Profession, the Programme provides more enrichment for the student development and

the Social Science Research. The syllabi include the courses like, Business Environment, International Financial Management, Research Methodology, Management Information System, Operations Research and Network Analysis, Tax Planning and Management etc. Sanctioned strength 20

Existing Infrastructure facilities

- Three class room for UG programme
- Two Class room for PG programme
- Faculty room

Requirements of building for the proposed new UG and PG courses

Sl. No	Item / Work	Specifications / Measurements	Nos	Total Measurements	Expected Cost
1	**Under Graduate Class Rooms**	**775 sqft**	**9**	**6975sqft**	**313.875Lakhs**
2	**Post Graduate Class Rooms**	**515 sqft**	**4**	**2060sqft**	**92.7 Lakhs**
3	**Research Centre**	**800 sqft**	**1**	**800 sqft**	**36 Lakhs**
4	**Commerce lab**	**800 sqft**	**1**	**800 sqft**	**36 Lakhs**
6	**ICT lab**	**800 sqft**	**1**	**800 sqft**	**36 Lakhs**
7	**Reference Library and Reading Room**	**600 sqft**	**1**	**600 sqft**	**27Lakhs**
8	**Mini Conference Hall**	**1000 sqft**	**1**	**1000 sqft**	**45Lakhs**
9	**HOD Room with Toilet facility**	**400 sqft**	**1**	**400 sqft**	**18 Lakhs**
10	**Faculty Room with Toilet facility**	**800 sqft**	**2**	**1600 sqft**	**72 Lakhs**
11	**Dining Area for Faculties and**	**400 sqft**	**1**	**400 sqft**	**18 Lakhs**

	Washroom				
12	**Recreation and Rest Room**	**400 sqft**	**1**	**400 sqft**	**18 Lakhs**
13	**Toilets for students with fittings**	**100 sqft**	**30**	**300 sqft**	**13.5 Lakhs**
14	**Lift and ramps for the differently abled**				**10 Lakhs**
15	**Front area beautification, including interlock paving**	**2000 sqft**	**-**	**2000 sqft**	**20 Lakhs**
16	**Examination Hall**	**3000 sqft**	**1**	**3000 sqft**	**135 Lakhs**
Total				**21,135 sqft**	**891.075 Lakhs**

Requirements of Under Graduate Class Rooms

Class room Platform (A)

Sl. No.	Items	Specifications	No. of Pieces	Rate	Amount
1	**Platform**	**10' X 6'- Wooden Flexible Platform**	**09**	**22,000**	**1,98,000**
Total					**1,98,000**

Other furniture (B)

Sl No.	Items	Specifications	Units	Rate	Amount
1.	**Desk with Book rest**	**6'x1.5' size Teak wood**	**102**	**9000**	**9,18,000**

2	**Bench with Book rest**	**6'x 1' size Teak wood**	**102**	**7800**	**7,95,600**
Total					**17,13,600**

Smart Class Room Equipment (C)

Sl No	Item Specification	QTY	RATE	AMOUNT
1	**Interactive projector & white board with mounting kit**	**9**	**1,80,000**	**16,20000**
2	**Lap top**	**9**	**49,000**	**4,41,000**
3	**Talk back Micro Phone**	**9**	**4,000**	**36,000**
4	**High Pixel Web cam and tripod for online class**	**2**	**26,000**	**52,000**
5	**Audio unit for class rooms with accessories**	**9**	**35,000**	**3,15,000**
Total				**24,64,000**

Grand Total A+B+C = 43,75,600

Requirements of Post Graduate Class Rooms

Classroom Platform (A)

Sl. No.	Items	Specifications	No. of Pieces	Rate	Amount
1	**Platform**	**8' X 4'- Wooden Flexible Platform**	**04**	**20,000**	**80,000**
Total					**80,000**

Other furniture (B)

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table with Book rest**	**Teak Wood with Book Rack (4x2x2.5)**	**100**	**10000**	**10,00,000**
2	**Chair with Book rest**	**Standard, Wooden – Teak wood with Book rack**	**100**	**7000**	**7,00,000**
Total					**17,00,000**

Smart Class Room Equipment (C)

Sl No	ITEM SPECIFICATION	QTY	RATE	AMOUNT
1	**Interactive projector & white board with mounting kit**	**4**	**1,80,000**	**7,20,000**
2	**Lap top**	**4**	**49,000**	**1,96,000**
3	**Talk back Micro Phone**	**4**	**4,000**	**16,000**
4	**High Pixel Web cam and tripod for online class**	**2**	**26,000**	**52,000**
5	**Audio unit for class rooms with accessories**	**4**	**35,000**	**1,40,000**
Total				11,24,000
Grand Total A+B+C = 29,04,000				

Requirements of Research Centre

Furniture (A)

Sl.No	Items	Item Specification	Quantity	Rate	Amount
1	**Table**	**Teak Wood with Book Rack (4x2x2.5)**	**30**	**10000**	**3,00,000**
2	**Chair**	**Standard, Wooden – Teak wood with Book rack**	**30**	**7000**	**2,10,000**
Total					5,10,000

Audio Visual Equipment and Internet Connectivity (B)

Sl No	ITEM SPECIFICATION	QTY	RATE	AMOUNT
1	**Interactive projector & white board with mounting kit**	**1**	**180,000**	**1,80,000**
2	**Lap top**	**2**	**49,000**	**98,000**
3	**Talk back Micro Phone**	**1**	**4,000**	**8,000**
4	**High speed internet connectivity**			**20000**
5	**Desk tops with LAN facility**	**10**	**40000**	**4,00,000**
6	**Audio unit with accessories**	**1**	**35,000**	**35,000**
Total				7,41,000

Furniture, Reference Books and Research software (C)

SL.NO	Item Specification	Number	Rate	Amount
a)	**Book shelf: Compartment with lock, keys and glass windows**	**2**	**20,000**	**40,000**
b)	**Wooden rack for keeping the**	**4**	**10,000**	**40,000**

	Journals in the departments			
c)	**Furnishing of reading area with table and seating arrangement**			**50,000**
d)	**Reference books, journal and periodicals**			**1,00000**
e)	**Data analysis software**			**50,000**
Total				2,80,000
Grand Total A+B+C = 15,31,000				

Requirements of Commerce lab

SL.NO	Item Specification	Number	Rate	Amount
1	**Interior work and design**			**1,00,000**
2	**Glass rack for exhibiting Documents, rare collections, coins and currencies used for Commercial activities**	**4**	**20000**	**80,000**
3	**Wooden rack for keeping documents in bounded form**	**2**	**10000**	**20000**
4	**Purchase and construction of different models for conducting practical session**			**100000**
Total				**1,72,000**

Requirements of ICT lab

SL.NO	Item Specification	Number	Rate	Amount
1	**Table top with racks for setting the Computer**	**40**	**10,000**	**4,00,000**

2	**Desktop with UPS and LAN facility**	**40**	**40,000**	**16,00,000**
3	**Interactive projector & white board with mounting kit**	**1**	**1,80,000**	**1,80,000**
3	**Printer and Photo Copier**	**1**	**1,00,000**	**1,00,000**
4	**High speed internet connectivity**			**50,000**
Total				23,30,000

Requirements of Reference Library and Reading Room

SL.NO	Item Specification	Quantity	Rate (Rs)	Amount
1	**Book shelf: Compartment with lock, keys and glass windows**	**4**	**20000**	**80,000**
2	**Wooden rack for keeping the Journals in the departments**	**6**	**8,000**	**48,000**
3	**Furnishing of reading cabin with table and seating arrangement**			**1,00,000**
4	**Reference books, journal and periodicals**			**2,00,000**
Total				4,28,000

Requirement Mini Conference Hall

Sl No	Item Specification	Quantity	Rate	Amount
1	**Interior design and roof setting with lights**			**5,00,000**

2	**Standard High Back Chairs**	**30**	**30,000**	**9,00,000**
	Interactive projector & white board with mounting kit	**1**	**1,80,000**	**1,80,000**
3	**Talk back Micro Phone**	**2**	**4,000**	**8,000**
4	**Air conditioner**	**2**	**40000**	**80,000**
5	**High speed internet connectivity**			**20,000**
6	**Smart TV**	**1**	**50000**	**50,000**
7	**Audio unit and accessories**			**2,00,000**
Total				19,38,000

Requirements of Faculty Room & HOD Cabin

Sl. No.	items	Item specification	QTY	Rate	Amount
1	**Faculty Cabin**	**Marine Ply, ISI -303, BWR Grade Plywood, Laminate Finished, 1m thin (Century). 6 Feet Cabin with Glass, above table top, 12mm Glass Partition, Chairs**	**12**	**75000**	**9,00,000**
2	**HOD Cabin**	**Marine Ply, ISI -303, BWR Grade Plywood, Laminate Finished, 1m thin (Century). 8 Feet Cabin with Glass, above table top 12mm Glass Partition.**	**1**	**85000**	**85,000**
Total					9,85,000

Justifications

In Wayanad, majority of the students are from backward and tribal communities. The present programme is not enough to cater the need of aspirant who wishes to complete their higher education in commerce stream. The starting of new UG and PG courses with different optional subject in commerce stream would help them to enter into the realm of carrier

development. The role of research in an academic institution is significant for its development, and it is imperative to have knowledge-driven growth based on innovation. The quest for knowledge is the basic principle behind research. The quality of research work directly translates to the quality of teaching and learning in the classroom, thereby benefiting the students and the society. In this scenario, the P.G. Department of Commerce proposes to start an approved research centre in Commerce and Management under the University of Calicut. The proposed ICT lab aim for enhancing the knowledge of students in the area of information technology and conducting the practical sessions related to their syllabi. In many of the reputed commerce and management department there exist well designed commerce labs wherein students practice their theoretical knowledge gained in the classroom. They can practice mock business activities which will cultivate a culture of entrepreneurship creating more confidence among the students. The reference library is an integral part of the leaning process and it makes possible the students to access a repository of reference books. A mini conference hall is inevitable one to conduct symposiums/conferences/seminars in the department for the faculties and students.

Expected Outcome

The proposed new academic block of commerce and new course definitely give more opportunities for the students who completed their School level education in the same stream. The development of basic infrastructure would support and promote high quality education and research in commerce. It enables the socially and economically back students to international standard of higher education.

LIBRARY COMPLEX

Background

Keeping in mind the projected expansion of the college in the coming years, the construction of a library complex has found a position of importance in the proposed upliftment of infrastructural facilities. Hence, all required changes, right from the construction of a new building to the purchase of required furniture and automation of the library. The complex will also cater to the requirement of an online exam hall for the conduct of university exams and various other competitive exams.

Library

The existing college library operates in a classroom that has been modified for this purpose and is inadequate to cater to the requirements of the ever-expanding student and teaching fraternity. As the college expands, a fully-automated library with the most modern facilities would be indispensable. Current infrastructure would not suffice to transform the available facilities into a full-fledged complex. The proposed complex includes a UG library on the ground floor, in addition to a mini-conference hall for conducting conferences/symposiums for students/faculty and an audio-visual room. On the mezzanine floor would be the PG library. The proposal envisages the availability of a library that would be a different experience for the students and faculty. It would be a one-stop source of information for those involved research activities.

Online Examination Centre

At present due to the unavailability of proper online exam centre district does not have examination centres for many national level and state level public-service examinations and entrance tests. Recently the district has allowed a centre for conducting NEET exam. It has become a great hindrance in the progress of the students in the district, which is noted for its unique geographical and social situation of the district. The online examination centre will be first of its kind in the district. The proposed exam centre will have the capacity of accommodating more than 300 candidates at a time. Various government agencies including the Kerala Public Service Commission and National testing agency for conducting National Eligibility Test will be able to utilise the facility. The facility could be rented to various state and central institutes and agencies to conduct their exams and thus the facility would generate income as well.

Requirements for the Building

Ground floor

GROUND FLOOR (Library)		
Sl No.	ITEM/WORK	Specification/ measurement in Sq. cm
1	Verandah	1260 x 420
2	Entry Lobby	1260 x 450
3	Dining hall	900 x 470
4	Periodicals and Newspaper display	1080 x 540
5	U.G Library	1080 x 2000
6	P.G Library	1080 x 2000
7	Digital Library	900 x 1160
8	Librarian room	460 x 360
9	Librarian room	460 x 360
10	counter	600 x 380
11	semi open reading area	390 x 1300
12	semi open reading area	390 x 1300
13	Binding	330 x 290
14	UPS room	480 x 270
15	Property counter	500 x 250
16	Reprography	300 x 290
17	Technical control room	600 x 690
18	Audio visual room	600 x 690
19	Library Entry lobby	1260 x 300
20	Landscape seating open to sky	1080 x 1300
21	Gents Staff toilet	2
22	Boys Toilet	3
23	Ladies Staff Toilet	2
24	Girls Toilet	3

	Total area	1484 Sqm
	FIRST FLOOR(Seminar & Conference Hall)	
Sl No.	ITEM/WORK	Specification/measurement in Sq. cm
1	Seminar Hall	1080 x 2560
2	Conference Hall	1080 x 2000
3	Admin room	900 x 600
4	Students waiting room	900 x 1160
5	Store room	630 x 360
6	Reception	600 x 380
7	Office room	460 x 360
8	Store	300 x 270
9	Store	340 x 270
10	Lift well	250 x 300
11	Landscape seating open to sky	1080 x 1300
12	UPS room	480 x 270
13	Refreshment area	
14	Gents Staff toilet	2
15	Boys Toilet	3
16	Ladies Staff Toilet	2
17	Girls Toilet	3
	Total area	1329 Sqm
	SECOND FLOOR(Online Examination center)	
Sl No.	ITEM/WORK	Specification/measurement in Sq. cm
1	Exam Hall (90 systems)	1080 x 2000
2	Exam Hall (90 systems)	1081 x 2000
3	Exam Hall (50 systems)	900 x 1160
4	Exam Hall (50 systems)	901 x 1160
5	Hardware room	630 x 360

6	Reception	600 x 380
7	Server room	630 x 360
8	Online examination center lobby	1260 x 300
9	Lift well	250 x 300
10	UPS room	480 x 270
11	Officials room	600 x 690
12	Officials room	600 x 690
13	Landscape seating open to sky	1080 x 1300
14	Gents Staff toilet	2
15	Boys Toilet	3
16	Ladies Staff Toilet	2
17	Girls Toilet	3
	Total area	1329 Sqm

TOTAL ESTIMATED COST: Rs. 10,62,00000 (Rupees Ten Crore Sixty Two Lakhs only)

Executing Agency: District Nirmithi Kendra Wayanad

Justification

The facility will be part of upgrading the college to deliver top-class facilities for the students in Wayanad, a good majority of whom come from socially and financially backward groups. It would be a one-stop source of information for those involved in research activities. The online examination centre would be a first of its kind facility in government sector in the district. It is expected offer immense opportunity for the student community of the district, a good majority of whom come from socially and financially backward groups.

Detailed Estimate of Library complex prepared in PRICE

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Construction of Library Complex at NMSM College Kalpetta

Detailed Estimate

(Dsor year: **2018**,Cost Index Applied for this estimate is **36.44**%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
	1 Ground Floor							
1	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							
		1	45.000	45.000	0.300		607.500	
						Total Quantity	607.500 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	607.500 cum	
						Say 607.500 cum @ Rs 201.32 / cum	**Rs 122301.90**	
2	2.8.1 Earth work in excavation 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 soil as directed, within a lead of 50 m.All kinds of soil							
	65x25mm	51	3.000	3.000	1.800		826.200	
	50x23mm	26	3.000	3.000	1.800		421.200	
	35x23mm	8	2.400	2.400	1.500		69.120	
	23mm round	18	2.400	2.400	1.500		155.520	
		1	41.400	1.800	0.800		59.616	
	LIFT WELL	1	2.900	3.400	2.450		24.157	
	septic tank	1	7.000	3.500	2.500		61.250	
	soak pit	1*3.14	1.300	1.300	2.700		14.328	
	waste pit	1*3.14	1.200	1.200	2.100		9.496	
						Total Quantity	1640.887 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1640.887 cum	
						Say 1640.887 cum @ Rs 279.32 / cum	**Rs 458332.56**	
3	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							

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	footing							
	flat	51	2.800	2.800	0.350		139.944	
		52	2.200	2.200	0.200		50.337	
	honge	51	9.670		.55/2		135.622	
		26	7.020		0.4/3		24.336	
		8	6.630		0.35/3		6.375	
		18	6.450		0.35/3		13.545	
	short column							
		51	0.650	0.300	0.800		7.957	
		26	0.500	0.230	0.800		2.393	
		8	0.350	0.230	0.850		0.548	
		18*3.14/4	0.230	0.230	0.850		0.636	
	plinth beam							
		2*3	2.870	0.230	0.450		1.783	
		6	2.630	0.230	0.450		1.634	
		2*2	4.460	0.230	0.450		1.847	
		2	3.200	0.230	0.450		0.663	
		2	5.600	0.230	0.450		1.160	
		2*3	3.870	0.230	0.450		2.404	
		2	2.370	0.230	0.450		0.491	
		1	5.600	0.230	0.450		0.580	
		2*10	2.650	0.230	0.450		5.486	
		2*2	2.330	0.230	0.450		0.965	
		3*2	2.970	0.230	0.450		1.845	
		6	5.370	0.230	0.450		3.335	
		6	3.300	0.230	0.450		2.050	
		4	2.420	0.230	0.450		1.002	
		4	5.000	0.230	0.450		2.071	
		2	3.270	0.230	0.450		0.677	
		2	4.070	0.230	0.450		0.843	
		2	3.950	0.230	0.450		0.818	
		6	2.550	0.230	0.450		2.112	
		4	3.200	0.230	0.450		1.325	

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		2	3.540	0.230	0.450		0.733	
		2	9.900	0.230	0.450		2.050	
		6	4.500	0.230	0.450		2.795	
		2	6.850	0.230	0.450		1.418	
		2	5.430	0.230	0.450		1.125	
		2	6.300	0.230	0.450		1.305	
		2	8.100	0.230	0.450		1.677	
		4	3.000	0.230	0.450		1.243	
		5	2.470	0.230	0.450		1.279	
	R wall							
		1	41.400	2.500	0.400		41.401	
	column	13	0.650	0.300	0.400		-1.014	
	lift wall bottom	1	2.900	3.400	0.550		5.423	
	wall	2	2.500	0.200	1.800		1.800	
		2	3.000	0.200	1.800		2.161	
	septic tank bottom	1	6.000	2.500	0.200		3.000	
						Total Quantity	482.194 cum	
						Total Deducted Quantity	-1.014 cum	
						Net Total Quantity	481.180 cum	
						Say 481.180 cum @ Rs 8545.87 / cum	**Rs 4112101.73**	
4	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							
		51	0.650	0.300	4.050		40.278	
		26	0.500	0.230	4.050		12.110	
		8	0.350	0.230	4.050		2.609	
		18*3.14/4	0.230	0.230	4.050		3.028	
	Rwall							
		1	41.400	0.300	4.350		54.027	
	column	13	0.650	0.300	4.350		-11.027	
	septic tank							

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		2	6.000	0.200	2.000		4.801	
		2	2.100	0.150	2.000		1.260	
		2	2.100	0.150	1.700		1.071	
						Total Quantity	119.184 cum	
						Total Deducted Quantity	-11.027 cum	
						Net Total Quantity	108.157 cum	
						Say 108.157 cum @ Rs 10303.84 / cum	**Rs 1114432.42**	
5	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15^0 landings, balconies, shelves, chajas, 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).							
	beam							
		2*3	2.870	0.230	0.300		1.189	
		6	2.630	0.230	0.300		1.089	
		2*2	4.460	0.230	0.400		1.642	
		2	3.200	0.230	0.350		0.516	
		2*2	5.400	0.230	0.450		2.236	
		2*3	3.870	0.230	0.350		1.870	
		2	2.370	0.230	0.300		0.328	
		1	5.600	0.230	0.450		0.580	
		2*10	2.650	0.230	0.300		3.657	
		2*2	2.330	0.230	0.300		0.644	
		4*2	2.970	0.230	0.300		1.640	
		6	5.370	0.230	0.450		3.335	
		6	3.300	0.230	0.350		1.594	
		4	2.420	0.230	0.300		0.668	
		4	5.000	0.230	0.450		2.071	
		2	3.270	0.230	0.350		0.527	
		2	4.070	0.230	0.400		0.749	
		2	3.950	0.230	0.400		0.727	
		8	2.550	0.230	0.300		1.408	
		4	3.200	0.230	0.350		1.031	
		2	3.540	0.230	0.350		0.570	

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		6	4.500	0.230	0.400		2.485	
		2	6.850	0.230	0.550		1.734	
		2	5.430	0.230	0.450		1.125	
		2	6.300	0.230	0.550		1.594	
		4	6.100	0.300	0.750		7.290	
		4	3.000	0.230	0.300		0.829	
		5	2.470	0.230	0.300		0.853	
		7*2	9.900	0.300	0.800		33.264	
		5*2	2.780	0.300	0.300		2.502	
		3	2.520	0.300	0.300		0.681	
		3	4.240	0.300	0.400		1.527	
	lintel							
		1	440.140	0.180	0.150		11.884	
	roof							
		1	1313.830		0.120		157.660	
	sunshade							
		1	110.175		0.100		11.018	
	stair							
	steps	24*2*0.5	1.500	0.155	0.100		0.558	
	landing	2*1	1.500	1.500	0.100		0.450	
	W.slab	2*2	3.600	1.500	0.100		2.160	
	cover slab							
	septic tank	1	6.000	2.500	0.120		1.800	
	soak pit	1*3.14	1.300	1.300	0.100		0.531	
	leach pit	1*3.14	1.200	1.200	0.100		0.453	
						Total Quantity	268.469 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	268.469 cum	
						Say 268.469 cum @ Rs 10810.69 / cum	**Rs 2902335.13**	
6	5.7 Reinforced cement concrete work in well - steining 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 20mm nominal size)							
	soak pit	2*3.14	1.250	0.100	2.000		2.042	

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	leach pit	2*3.14	1.150	0.100	2.000		1.445	
						Total Quantity	3.487 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	3.487 cum	
						Say 3.487 cum @ Rs 8049.80 / cum	**Rs 28069.65**	
7	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete							
	flat	51*4	2.800		0.350		199.920	
		26*4	2.200		0.200		45.761	
	Rwall							
		2	41.400		0.400		33.120	
		2		2.500	0.400		2.000	
	column	13*2	0.650		0.400		-6.760	
	lift well bottom							
		2	3.000		0.550		3.301	
		2	2.500		0.550		2.750	
	pit							
	septic tank	2		3.900	0.200		1.560	
		2	7.900		0.200		3.160	
						Total Quantity	291.572 sqm	
						Total Deducted Quantity	-6.760 sqm	
						Net Total Quantity	284.812 sqm	
						Say 284.812 sqm @ Rs 315.41 / sqm	**Rs 89832.55**	
8	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.							
	Rwall							
		1*2	41.400		4.350		360.180	
	lift well	2*2	3.000		1.800		21.600	
		2*2	2.500		1.800		18.000	
	septic tank	2	6.000		2.000		24.000	
		2	5.700		2.000		22.800	
		2	2.500		2.000		10.000	

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		2	2.100		2.000		8.400	
		4	2.100		1.700		14.280	
	soak pit	2*3.14	1.300		2.600		21.227	
		2*3.14	1.200		2.600		19.594	
	leachpit	2*3.14	1.200		2.000		15.072	
		2*3.14	1.100		2.000		13.817	
						Total Quantity	548.970 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	548.970 sqm	
						Say 548.970 sqm @ Rs 674.63 / sqm	**Rs 370351.63**	
9	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
	roof							
		1	1313.830				1313.830	
	sunshade							
		1	110.175				110.175	
	stair							
	landing	2*1	1.500	1.500			4.500	
	W.slab	2*2	3.600	1.500			21.600	
	septic	1	6.000	2.500			15.000	
	soak	1*3.14	1.300	1.300			5.307	
	leach	1*3.14	1.200	1.200			4.522	
						Total Quantity	1474.934 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	1474.934 sqm	
						Say 1474.934 sqm @ Rs 767.35 / sqm	**Rs 1131790.60**	
10	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	plinth beam							
		2*3*2	2.870		0.450		15.498	
		6*2	2.630		0.450		14.202	
		2*2*2	4.460		0.450		16.057	

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		2*2	3.200		0.450		5.761	
		2*2	5.600		0.450		10.080	
		2*3*2	3.870		0.450		20.898	
		2*2*2	2.370		0.450		8.532	
		1*2	5.600		0.450		5.040	
		2*10*2	2.650		0.450		47.700	
		2*2*2	2.330		0.450		8.388	
		3*2*2	2.970		0.450		16.038	
		6*2	5.370		0.450		28.998	
		6*2	3.300		0.450		17.820	
		4*2	2.420		0.450		8.712	
		4*2	5.000		0.450		18.000	
		2*2	3.270		0.450		5.886	
		2*2	4.070		0.450		7.327	
		2*2	3.950		0.450		7.110	
		8*2	2.550		0.450		18.360	
		4*2	3.200		0.450		11.521	
		2*2	3.540		0.450		6.372	
		2*2	9.900		0.450		17.820	
		6*2	4.500		0.450		24.300	
		2*2	6.850		0.450		12.330	
		2*2	5.430		0.450		9.774	
		2*2	6.300		0.450		11.340	
		2*2	8.100		0.450		14.580	
		4*2	3.000		0.450		10.800	
		5*2	2.470		0.450		11.116	
	beam							
		2*3*2	2.870		0.300		10.332	
		6*2	2.630		0.300		9.468	
		2*2*2	4.460		0.400		14.272	
		2*2	3.200		0.350		4.480	
		4*2	5.400		0.450		19.440	
		2*3*2	3.870		0.350		16.255	

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		2*2	2.370		0.300		2.844	
		1*2	5.600		0.450		5.040	
		2*10*2	2.650		0.300		31.800	
		2*2*2	2.330		0.300		5.592	
		4*2*2	2.970		0.300		14.256	
		6*2	5.370		0.450		28.998	
		6*2	3.300		0.350		13.860	
		4*2	2.420		0.300		5.808	
		4*2	5.000		0.450		18.000	
		2*2	3.270		0.350		4.578	
		2*2	4.070		0.400		6.512	
		2*2	3.950		0.400		6.320	
		8*2	2.550		0.300		12.240	
		4*2	3.200		0.350		8.960	
		2*2	3.540		0.350		4.956	
		6*2	4.500		0.400		21.600	
		2*2	6.850		0.550		15.070	
		2*2	5.430		0.450		9.774	
		2*2	6.300		0.550		13.861	
		4*2	8.100		0.750		48.600	
		4*2	3.000		0.300		7.200	
		5*2	2.470		0.300		7.410	
		7*2*2	9.900		0.800		221.761	
		5*2*2	2.780		0.300		16.680	
		3*2	2.520		0.300		4.536	
		3*2	4.240		0.300		7.632	
	lintel							
		1*2	440.140		0.150		132.042	
	Total Quantity						1160.538 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1160.538 sqm	
	Say 1160.538 sqm @ Rs 611.24 / sqm						**Rs 709367.25**	
11	5.9.6							

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	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	column							
		51*2	0.650		4.050		268.515	
		51*2		0.300	4.050		123.930	
		26*2	0.500		4.050		105.300	
		26*2		0.230	4.050		48.438	
		8*2	0.350		4.050		22.680	
		8*2		0.230	4.050		14.904	
		18*3.14	0.230		4.050		52.649	
						Total Quantity	636.416 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	636.416 sqm	
						Say 636.416 sqm @ Rs 812.38 / sqm	**Rs 517011.63**	
12	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	1	344.991			50.0	17249.550	
	plinth beam	1	46.716			120.0	5605.920	
	column	1	69.559			180.0	12520.620	
	Rwall footing	1	40.384			50.0	2019.200	
	Rwall	1	43.000			150.0	6450.000	
	beam	1	81.955			150.0	12293.250	
	lintel	1	11.884			120.0	1426.080	
	roof	1	157.860			75.0	11824.500	
	sunshade	1	11.018			75.0	826.350	
	stair	1	3.168			120.0	380.160	
	septic tank wall	1	7.132			130.0	927.160	
	cover slab	1	2.784			75.0	208.800	
	leach pit soak pit wall	1	3.487			70.0	244.090	
	lift well bottom	1	5.423			120.0	650.760	
	lift well wall	1	3.901			130.0	507.130	
						Total Quantity	73133.570 kilogram	
						Total Deducted Quantity	0.000 kilogram	

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						Net Total Quantity	73133.570 kilogram	
						Say 73133.570 kilogram @ Rs 92.47 / kilogram	**Rs 6762661.22**	
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.							
	available excavated	1	1531.656				1531.656	
	poc	1	65.153				-65.153	
	footing	1	443.628				-443.628	
						Total Quantity	1531.656 cum	
						Total Deducted Quantity	-508.781 cum	
						Net Total Quantity	1022.875 cum	
						Say 1022.875 cum @ Rs 243.22 / cum	**Rs 248783.66**	
14	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)							
		51	2.800	2.600	0.100		39.984	
		52	2.200	2.200	0.100		25.169	
	lift well	1	2.500	3.400	0.100		0.966	
	septic tank	1	6.400	2.900	0.100		1.856	
	carpet area	1	1187.904		0.075		89.093	
				under plinth beam				
		2*3	2.870	0.230	0.100		0.397	
		6	2.630	0.230	0.100		0.363	
		2*2	4.460	0.230	0.100		0.411	
		2	3.200	0.230	0.100		0.148	
		2	5.600	0.230	0.100		0.258	
		2*3	3.870	0.230	0.100		0.535	
		2	2.370	0.230	0.100		0.110	
		1	5.600	0.230	0.100		0.129	
		2*10	2.650	0.230	0.100		1.219	
		2*2	2.330	0.230	0.100		0.215	
		3*2	2.970	0.230	0.100		0.410	
		6	5.370	0.230	0.100		0.742	

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		6	3.300	0.230	0.100		0.456	
		4	2.420	0.230	0.100		0.223	
		4	5.000	0.230	0.100		0.461	
		2	3.270	0.230	0.100		0.151	
		2	4.070	0.230	0.100		0.188	
		2	3.950	0.230	0.100		0.182	
		8	2.550	0.230	0.100		0.470	
		4	3.200	0.230	0.100		0.295	
		2	3.540	0.230	0.100		0.163	
		2	9.900	0.230	0.100		0.456	
		6	4.500	0.230	0.100		0.622	
		2	6.850	0.230	0.100		0.316	
		2	5.430	0.230	0.100		0.250	
		2	6.300	0.230	0.100		0.290	
		2	8.100	0.230	0.100		0.373	
		4	3.000	0.230	0.100		0.276	
		5	2.470	0.230	0.100		0.285	
	under Rwall footing	1	41.400	1.800	0.100		7.452	
						Total Quantity	174.934 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	174.934 cum	
						Say 174.934 cum @ Rs 6410.38 / cum	**Rs 1121393.41**	
15	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.							
		1	440.140	0.180	3.600		285.211	
	MD	1	1.500	0.180	2.400		-0.648	
	D1	8	1.200	0.180	2.100		-3.628	
	D2	11	1.000	0.180	2.100		-4.158	
	D3	10	0.800	0.180	2.100		-3.024	
	W3	39	1.500	0.180	1.500		-15.795	
	W2	10	0.600	0.180	1.500		-1.620	
	v	16	0.600	0.180	0.450		-0.777	

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	lintel	1	11.884				-11.884	
	beam	1					-1.000	
						Total Quantity	285.211 cum	
						Total Deducted Quantity	-42.534 cum	
						Net Total Quantity	242.677 cum	
						Say 242.677 cum @ Rs 7449.06 / cum	**Rs 1807715.53**	
16	50.6.3.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 (1 cement : 6 coarse sand) including cost of scaffolding complete							
	toilets	1	24.500	0.100	3.600		8.820	
	dining	1	4.700	0.100	3.600		1.693	
						Total Quantity	10.513 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	10.513 cum	
						Say 10.513 cum @ Rs 7338.70 / cum	**Rs 77151.75**	
17	9.48.1 Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding							
	w3	39	1.500		1.500	20.0	1755.000	
	w2	10	0.600		1.500	20.0	180.000	
	v	16	0.600		0.450	20.0	86.400	
						Total Quantity	2021.400 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	2021.400 kg	
						Say 2021.400 kg @ Rs 183.02 / kg	**Rs 369966.63**	
18	50.9.1.2 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							
	MD	1	2.000	0.100	0.125		0.025	
		2	2.300	0.100	0.125		0.058	
	D1	8*1	1.400	0.100	0.075		0.084	
		8*2	1.900	0.100	0.075		0.228	

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	D2	11*1	1.200	0.100	0.075		0.099	
		11*2	1.900	0.100	0.075		0.314	
						Total Quantity	0.808 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.808 cum	
						Say 0.808 cum @ Rs 113153.22 / cum	**Rs 91427.80**	
19	50.9.2.2 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required sized with necessary screws, excluding paneling which will be paid for separately, all complete as per direction of Engineer in-charge using Pincoda wood							
	MD	2*2	0.600	0.110			0.264	
		2*2	2.310	0.110			1.017	
	D1	8*4	1.900	0.090			5.472	
		8*4	0.280	0.090			0.807	
	D2	11*4	0.670	0.095			2.801	
		11*2	2.000	0.095			4.160	
						Total Quantity	14.541 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	14.541 sqm	
						Say 14.541 sqm @ Rs 3316.18 / sqm	**Rs 48220.57**	
20	50.9.4.2 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 inserts 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							
	MD	2	0.600	1.840			2.208	
	D1	8*2	0.280	0.400			1.793	
		8*2	0.280	0.800			3.585	
		8*2	0.280	0.380			1.703	
	D2	11	0.670	0.400			2.949	
		11	0.670	0.800			5.897	
		11	0.670	0.380			2.801	
						Total Quantity	20.936 sqm	
						Total Deducted Quantity	0.000 sqm	

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						Net Total Quantity	20.936 sqm	
						Say 20.936 sqm @ Rs 2725.38 / sqm	**Rs 57058.56**	
21	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, Aluminnium 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 portionPowder coated aluminium (minimum thickness of powder coating 50 micron)							
	w3	39*2	1.500				117.000	1kg/m
		39*2	1.500				117.000	1kg/m
	w2	10*2	0.600				12.000	1kg/m
		10*2	1.500				30.000	1kg/m
	v	16*2	0.600				19.200	1kg/m
		16*2	0.450				14.400	1kg/m
						Total Quantity	309.600 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	309.600 kg	
						Say 309.600 kg @ Rs 505.19 / kg	**Rs 156406.82**	
22	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)							
	w3	39*2	1.500				117.000	1kg/m
		39*4	1.500				234.000	1kg/m
	w	10*2	0.600				12.000	1kg/m
		10*2	1.500				30.000	1kg/m
	v	16*2	0.600				19.200	1kg/m
		16*4	0.450				28.800	1kg/m
						Total Quantity	441.000 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	441.000 kg	
						Say 441.000 kg @ Rs 604.93 / kg	**Rs 266774.13**	

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23	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							
	w3	39	1.500		1.500		87.750	
	w	10	0.600		1.500		9.000	
	v	16	0.600		0.450		4.320	
						Total Quantity	101.070 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	101.070 sqm	
						Say 101.070 sqm @ Rs 1106.81 / sqm	**Rs 111865.29**	
24	od87781/2022_2023 Providing and fixing 9 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS : 12823 Grade I Type II, in panelling fixed in aluminum 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. Pre- laminated particle board with decorative lamination on both sides							
		1	9.900		0.900		8.910	
		1	9.900		1.500		14.851	
						Total Quantity	23.761 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	23.761 sqm	
						Say 23.761 sqm @ Rs 690.28 / sqm	**Rs 16401.74**	
25	od87909/2022_2023 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 5.00 mm thickness							
		1	9.900		1.200		11.880	
						Total Quantity	11.880 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	11.880 sqm	
						Say 11.880 sqm @ Rs 1181.96 / sqm	**Rs 14041.68**	
26	od92957/2022_2023 Providing and fixing 12 mm thick frameless toughened glass partition of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing all complete as per direction of Engineer-in-charge							

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	glass	2	3.370		2.100		14.155	
		1	5.400		2.100		11.341	
						Total Quantity	25.496 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	25.496 sqm	
						Say 25.496 sqm @ Rs 6279.61 / sqm	**Rs 160104.94**	
27	od87825/2022_2023 Melamine polishing on wood work (one or more coat)							
	MD	1	1.800		2.400	2.25	9.720	
	D1	8	1.200		2.100	2.25	45.360	
	D2	11	1.000		2.100	2.25	51.975	
						Total Quantity	107.055 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	107.055 sqm	
						Say 107.055 sqm @ Rs 435.61 / sqm	**Rs 46634.23**	
28	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	outside	1	195.400		4	0.50	791.370	
	inside UG Library & PG library	2*2	30.800		3.600		443.521	
	periodicals	1	21.600		3.600		77.760	
	dining	1	27.400		3.600		98.640	
	digital library	2	20.600		3.600		148.321	
		2*2	12.900		3.600		185.761	
	property counter	1	12.500		3.600		45.000	
	UPS& peprography	2*2	6.300		3.600		90.720	
	librararian	2*2	8.200		3.600		118.080	
	counter	2	9.800		3.600		70.560	
	lobby	2	12.600		3.600		90.720	
		1	21.600		3.600		77.760	
		2*2	14.200		3.600		204.480	
	toilets	2*2	3.300		3.600		47.520	
		2*2	3.300		3.600		47.520	

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		2*2*2	2.700		3.600		77.760	
		2*2	3.500		3.600		50.400	
		2*2	2.600		3.600		37.441	
		2*2	2.400		3.600		34.560	
		2*2	3.700		3.600		53.280	
	wash	2*2	6.200		3.600		89.280	
		2*2	5.000		3.600		72.000	
	stair	2	13.300		3.600		95.760	
		2	5.450		3.600		39.240	
	column	18*3.14	0.230		3.600		46.799	
	column side	12*2*2	0.450		3.600		77.760	
	MD	1	1.800		2.400		-4.320	
	D1	8	1.200		2.100		-20.160	
	D2	11	1.000		2.100		-23.100	
	D3	10	0.800		2.100		-16.800	
	FD	2	1.200		2.100		-5.040	
	W3	39	1.500		1.500		-87.750	
	w	10	0.600		500		-9.000	
	v	16	0.600		0.450		-4.320	
	glass	2	3.370		2.100		-14.154	
	glass	1	5.400		2.100		-11.340	
						Total Quantity	3212.013 sqm	
						Total Deducted Quantity	-195.984 sqm	
						Net Total Quantity	3016.029 sqm	
						Say 3016.029 sqm @ Rs 285.45 / sqm	**Rs 891085.77**	
29	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)							
	sunshade	1	110.175				110.175	
	roof projection	1	39.240				39.240	
						Total Quantity	149.415 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	149.415 sqm	
						Say 149.415 sqm @ Rs 377.40 / sqm	**Rs 56389.22**	

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30	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							
	Carpet area	1	1187.904				1187.904	
	duct	2	1.500	1.200			-3.599	
		2	6.400	1.200			-15.360	
		1	1.300	2.700			-3.510	
	lift	1	2.500	3.000			-7.500	
	sunshade	1	110.175				110.175	
	roof projection	1	39.240				39.240	
	beam side							
		7*2*2	9.900		0.800		221.761	
		4*2	8.100		0.750		48.600	
		10*2	2.770		0.300		16.620	
		3*2	2.500		0.300		4.500	
		3*2	4.250		0.400		10.201	
		4*2	3.000		0.300		7.200	
		2*2	5.400		0.450		9.720	
						Total Quantity	1655.921 sqm	
						Total Deducted Quantity	-29.969 sqm	
						Net Total Quantity	1625.952 sqm	
						Say 1625.952 sqm @ Rs 274.02 / sqm	**Rs 445543.37**	
31	11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (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 bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.							
	wash	2	4.400	1.800			15.841	
		2	3.200	1.800			11.521	
	toilets	2	1.500	1.800			5.400	
		2*2	1.500	1.200			7.200	
		2	2.000	1.500			6.000	
		2	1.100	1.500			3.301	
		2	1.200	1.300			3.120	
		2	2.200	1.500			6.601	

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						Total Quantity	58.984 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	58.984 sqm	
						Say 58.984 sqm @ Rs 1103.55 / sqm	**Rs 65091.79**	
32	11.47.3 Providing and laying Vitrified 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 brand & manufacturer,in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 800x800 mm							
	total carpet area	1	1187.904				1187.904	
	skirting	1	370.000		0.100		37.000	
	toilet floor area	1	58.984				-58.984	
						Total Quantity	1224.904 sqm	
						Total Deducted Quantity	-58.984 sqm	
						Net Total Quantity	1165.920 sqm	
						Say 1165.920 sqm @ Rs 2208.83 / sqm	**Rs 2575319.07**	
33	8.31 Providing and fixing Ist 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 Engineerin-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 @3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete							
	Toilets	12*2	1.500		2.100		75.601	
		2*2	1.800		2.100		15.121	
		8*2	1.200		2.100		40.320	
		2*2	2.000		2.100		16.800	
		2*2	2.200		2.100		18.481	
	wash	2*2	1.800		0.800		5.761	
	dining	1	4.400		0.800		3.521	
	d3	10	0.800		2.100		-16.800	
		4	0.800		2.100		-6.720	
	v	16	0.600		0.600		-5.760	
						Total Quantity	175.605 sqm	
						Total Deducted Quantity	-29.280 sqm	
						Net Total Quantity	146.325 sqm	

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	Say 146.325 sqm @ Rs 1140.80 / sqm						**Rs 166927.56**	
34	od92500/2022_2023 Providing and fixing PVC door shutter with frame including all expenses.							
		14					14.000	
	Total Quantity						14.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						14.000 no	
	Say 14.000 no @ Rs 4685.04 / no						**Rs 65590.56**	
35	12.45.3 Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lipsof 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 m m interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5x25 mm at 230 mm c/c, including jointing and finishing a flush finish of tapered and square edges of the board with recommended jointing compou...join the tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with 12.5 mm thick tapered edge gypsum moisture resistant board								
	Carpet area	1	1187.904				1187.904	
	duct	2	1.500	1.200			-3.599	
		2	6.400	1.200			-15.360	
		1	1.300	2.700			-3.510	
	lift	1	2.500	3.000			-7.500	
	Total Quantity						1187.904 sqm	
	Total Deducted Quantity						-29.969 sqm	
	Net Total Quantity						1157.935 sqm	
	Say 1157.935 sqm @ Rs 1424.13 / sqm						**Rs 1649049.97**	
36	13.26							

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	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.							
	wall plastered area	1	3016.029				3016.029	
		1	1625.952				1625.952	
		1	110.175				110.175	
	wall tile area	1	146.325				-146.325	
						Total Quantity	4752.156 sqm	
						Total Deducted Quantity	-146.325 sqm	
						Net Total Quantity	4605.831 sqm	
						Say 4605.831 sqm @ Rs 217.76 / sqm	**Rs 1003057.88**	
37	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							
	same as putty area	1	4605.831				4605.831	
						Total Quantity	4605.831 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	4605.831 sqm	
						Say 4605.831 sqm @ Rs 142.40 / sqm	**Rs 655870.33**	
38	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							
	w3	39	1.500		1.500	1.5	131.625	
	w2	10	0.600		1.500	1.5	13.500	
	v	16	0.600		0.450	1.5	6.480	
	75x40mm	11	4.200			0.23	10.627	
		11*2	3.900			0.23	19.734	
	40x20mm	17	13.000			0.12	26.520	
		16*2	12.600			0.12	48.384	
						Total Quantity	256.870 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	256.870 sqm	
						Say 256.870 sqm @ Rs 134.56 / sqm	**Rs 34564.43**	
39	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							

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	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.)							
	50mm dia	2*2	3.740			2.4	35.904	
	post	3*2	3.740			2.4	53.856	
	32mm dia	3*2	3.740			1.65	37.026	
		5*2	0.950			1.65	15.675	
						Total Quantity	142.461 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	142.461 kg	
						Say 142.461 kg @ Rs 637.13 / kg	**Rs 90766.18**	
40	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							
	75x40mm	11	4.200			2.6	120.120	
		11*2	3.900			2.6	223.080	
						Total Quantity	343.200 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	343.200 kg	
						Say 343.200 kg @ Rs.178.62 / kg	**Rs 61302.38**	
41	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							
	40x20mm	17	13.000			1.26	278.460	
		16*2	12.600			1.26	508.032	
						Total Quantity	786.492 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	786.492 kg	
						Say 786.492 kg @ Rs 143.29 / kg	**Rs 112696.44**	
42	od91835/2022_2023 Providing and fixing Ondu villa sheets (size, shape and pitch of corrugation as approved 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,							

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	rafters and trusses and including cutting to size and shape wherever required.							
		1	4.200	12.900			54.181	
		2	3.900	13.000			101.400	
						Total Quantity	155.581 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	155.581 sqm	
						Say 155.581 sqm @ Rs 1434.15 / sqm	**Rs 223126.49**	
43	od92187/2022_2023 Providing and laying 40mm thick Thadoor stone of required strength,thickness & size/ shape, colour etc., & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of stone into the sand bedding layer through vibratory compaction by using plate vibrator, filling thejoints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 40mm thick thandoor stone with approved colour, design & pattern.							
		1	5.000	8.000			40.000	
		1	10.000	15.000			150.000	
						Total Quantity	190.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	190.000 sqm	
						Say 190.000 sqm @ Rs 1463.91 / sqm	**Rs 278142.90**	
44	od92289/2022_2023 Providing and fixing KoreanMexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and even, watering with sprinkler							
		1	1.600	2.900			4.640	
		1	4.000	3.000			12.000	
						Total Quantity	16.640 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	16.640 sqm	
						Say 16.640 sqm @ Rs 528.24 / sqm	**Rs 8789.91**	
45	od88853/2022_2023 Supplying and laying interlocking tile 60mm or nearest size thickness, minimum strength M30 including providing a layer of 6mm aggregate for 5cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc. complete							
		1	41.400		1.500		62.100	
		2	39.400		1.000		78.800	

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						Total Quantity	140.900 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	140.900 sqm	
						Say 140.900 sqm @ Rs 739.16 / sqm	**Rs 104147.64**	
46	od88854/2022_2023 Providing and laying porch tiles of size 300x300 mm (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 bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.							
		1	10.900	6.600			71.940	
						Total Quantity	71.940 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	71.940 sqm	
						Say 71.940 sqm @ Rs 1254.09 / sqm	**Rs 90219.23**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	2 Second 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							
		42	0.650	0.300	4.050		33.170	
		26	0.500	0.230	4.050		12.110	
		8	0.350	0.230	4.050		2.609	
		12*3.14/4	0.230	0.230	4.050		2.019	
						Total Quantity	49.908 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	49.908 cum	
						Say 49.908 cum @ Rs 10303.84 / cum	**Rs 514244.05**	
2	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15^0 landings, balconies, shelves, chajas, 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 II) : 3 graded stone aggregate 20 mm nominal size).							
	sunshade							
		1	150.300		0.100		15.031	

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	roof							
		1	1313.830		0.120		157.660	
	stair							
	steps	24*2*0.5	1.500	0.155	0.100		0.558	
	landing	2*1	1.500	1.500	0.100		0.450	
	W.slab	2*2	3.600	1.500	0.100		2.160	
	lintel							
		1	441.300	0.180	0.150		11.916	
	beam							
		8*2	9.900	0.300	0.800		38.017	
		4	8.100	0.300	0.750		7.290	
		2*2	4.350	0.230	0.400		1.601	
		2*2	3.950	0.230	0.400		1.454	
		4*10	2.650	0.230	0.300		7.314	
		4*2	2.330	0.230	0.300		1.287	
		4*2*2	2.970	0.230	0.300		3.279	
		4*2	5.370	0.230	0.450		4.447	
		3*2	5.000	0.230	0.350		1.594	
		3*2	2.470	0.230	0.300		1.023	
		2*2	5.050	0.230	0.450		2.091	
		2	2.800	0.230	0.300		0.387	
		3*2	5.400	0.230	0.450		3.354	
		2	3.270	0.230	0.350		0.527	
		2	3.970	0.230	0.400		0.731	
		4	4.500	0.230	0.400		1.657	
		2	4.670	0.230	0.400		0.860	
		4	3.190	0.230	0.350		1.028	
		4*2	2.600	0.230	0.300		1.436	
		2	2.500	0.230	0.300		0.346	
		5*2	2.800	0.230	0.300		1.933	
		2	4.300	0.230	0.400		0.792	
	Total Quantity						270.223 cum	
	Total Deducted Quantity						0.000 cum	

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						Net Total Quantity	270.223 cum	
						Say 270.223 cum @ Rs 10810.69 / cum	**Rs 2921297.08**	
3	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
	roof							
		1	1313.830				1313.830	
	sunshade							
		1	150.300				150.300	
	stair							
	landing	2*1	1.500	1.500			4.500	
	W.slab	2*2	3.600	1.500			21.600	
						Total Quantity	1490.230 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	1490.230 sqm	
						Say 1490.230 sqm @ Rs 767.35 / sqm	**Rs 1143527.99**	
4	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	sunshade							
		1	150.300		0.100		15.031	
	lintel							
		1*2	441.300		0.150		132.390	
	beam							
		8*2*2	9.900		0.800		253.441	
		4*2	8.100		0.750		48.600	
		2*2*2	4.350		0.400		13.920	
		2*2*2	3.950		0.400		12.640	
		4*10*2	2.650		0.300		63.600	
		4*2*2	2.330		0.300		11.184	
		4*2*2*2	2.970		0.300		28.512	
		4*2*2	5.370		0.450		38.664	
		3*2*2	3.300		0.350		13.860	
		3*2*2	2.470		0.300		8.892	

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		2*2*2	5.050		0.450		18.180	
		2*2	2.800		0.300		3.360	
		3*2*2	5.400		0.450		29.161	
		2*2	3.270		0.350		4.578	
		2*2	3.970		0.400		6.352	
		4*2	4.500		0.400		14.400	
		2*2	4.670		0.400		7.472	
		4*2	3.190		0.350		8.932	
		4*2*2	2.600		0.300		12.480	
		2*2	2.500		0.300		3.000	
		5*2*2	2.800		0.300		16.800	
		2*2	4.300		0.400		6.880	
						Total Quantity	772.329 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	772.329 sqm	
						Say 772.329 sqm @ Rs 611.24 / sqm	**Rs 472078.38**	
5	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	column							
		42*2	0.650		4.050		221.130	
		42*2		0.300	4.050		102.060	
		26*2	0.500		4.050		105.300	
		26*2		0.230	4.050		48.438	
		8*2	0.350		4.050		22.680	
		8*2		0.230	4.050		14.904	
		12*3.14	0.230		4.050		35.099	
						Total Quantity	549.611 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	549.611 sqm	
						Say 549.611 sqm @ Rs 812.38 / sqm	**Rs 446492.98**	
6	5.9.16.2 Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and wallsAbove 20 cm wide							

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	sunshade	1	203.400				203.400	
	roof	1	199.000				199.000	
						Total Quantity	402.400 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	402.400 sqm	
						Say 402.400 sqm @ Rs 816.39 / sqm	**Rs 328515.34**	
7	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
	column	1	49.908			180.0	8983.440	
	lintel	1	11.916			120.0	1429.920	
	beam	1	82.448			150.0	12367.200	
	sunshade	1	15.031			75.0	1127.325	
	stair	1	3.168			120.0	380.160	
	roof	1	157.660			75.0	11824.500	
						Total Quantity	36112.545 kilogram	
						Total Deducted Quantity	0.000 kilogram	
						Net Total Quantity	36112.545 kilogram	
						Say 36112.545 kilogram @ Rs 92.47 / kilogram	**Rs 3339327.04**	
8	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.							
		1	441.300	0.180	3.600		285.963	
	D1	6	1.200	0.180	2.100		-2.721	
	D2	7	1.000	0.180	2.100		-2.646	
	D3	12	0.800	0.180	2.100		-3.628	
	W3	45	1.500	0.180	1.500		-18.225	
	v	14	0.600	0.180	0.450		-0.680	
	lintel	1	11.916				-11.916	
	glass	2	3.370	0.180	2.100		-2.547	
		1	5.400	0.180	2.100		-2.041	
						Total Quantity	285.963 cum	
						Total Deducted Quantity	-44.404 cum	

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						Net Total Quantity	241.559 cum	
						Say 241.559 cum @ Rs 7449.06 / cum	**Rs 1799387.48**	
9	9.48.1 Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding							
	w3	45	1.500		1.500	20.0	2025.000	
	v	14	0.600		0.450	20.0	75.601	
						Total Quantity	2100.601 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	2100.601 kg	
						Say 2100.601 kg @ Rs 183.02 / kg	**Rs 384452.00**	
10	50.9.1.2 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							
	D1	6*1	1.400	0.100	0.075		0.063	
		6*2	1.900	0.100	0.075		0.171	
	D2	7*1	1.200	0.100	0.075		0.063	
		7*2	1.500	0.100	0.075		0.200	
						Total Quantity	0.497 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.497 cum	
						Say 0.497 cum @ Rs 113153.22 / cum	**Rs 56237.15**	
11	50.9.2.2 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required sized with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer in-charge using Pincoda wood							
	D1	6*4	1.900	0.090			4.104	
		6*4	0.280	0.090			0.605	
	D2	7*4	0.670	0.095			1.783	
		7*2	2.000	0.095			2.660	
						Total Quantity	9.152 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	9.152 sqm	

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	Say 9.152 sqm @ Rs 3316.18 / sqm						**Rs 30349.68**	
12	50.9.4.2 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 inserts 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							
	D1	6*2	0.280	0.400			1.345	
		6*2	0.280	0.800			2.689	
		6*2	0.280	0.380			1.277	
	D2	7	0.670	0.400			1.876	
		7	0.670	0.800			3.752	
		7	0.670	0.380			1.783	
	Total Quantity						12.722 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						12.722 sqm	
	Say 12.722 sqm @ Rs 2725.38 / sqm						**Rs 34672.28**	
13	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 portionPowder coated aluminium (minimum thickness of powder coating 50 micron)							
	w3	45*2	1.500				135.000	1kg/m
		45*2	1.500				135.000	1kg/m
	v	14*2	0.600				16.800	1kg/m
		14*2	0.450				12.600	1kg/m
	Total Quantity						299.400 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						299.400 kg	
	Say 299.400 kg @ Rs 505.19 / kg						**Rs 151253.89**	
14	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							

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	coating 50 micron)							
	w3	45*2	1.500				135.000	1kg/m
		45*4	1.500				270.000	1kg/m
	v	14*2	0.600				16.800	1kg/m
		14*4	0.450				25.200	1kg/m
						Total Quantity	447.000 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	447.000 kg	
						Say 447.000 kg @ Rs 604.93 / kg	**Rs 270403.71**	
15	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							
	w3	45	1.500	1.500			101.250	
	v	14	0.600	0.450			3.781	
						Total Quantity	105.031 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	105.031 sqm	
						Say 105.031 sqm @ Rs 1106.81 / sqm	**Rs 116249.36**	
16	od92957/2022_2023 Providing and fixing 12 mm thick frameless toughened glass partition of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing all complete as per direction of Engineer-in-charge							
	glass	2	3.370		2.100		14.155	
		1	5.400		2.100		11.341	
						Total Quantity	25.496 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	25.496 sqm	
						Say 25.496 sqm @ Rs 6279.61 / sqm	**Rs 160104.94**	
17	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	outer	1	197.400		3.600		710.640	
	inside ug& pg	2*2	30.800		3.600		443.521	
	exam hall	2*2	20.600		3.600		296.641	

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	officials	2*2	12.900		3.600		185.761
	stair	2	15.300		3.600		110.161
	ups	2	7.500		3.600		54.000
	hardware room	2*2	9.900		3.600		142.560
	reception	2	9.800		3.600		70.560
	lobby	2	15.600		3.600		112.320
		1	12.600		3.600		45.360
		2	30.400		3.600		218.880
		2	2.700		3.600		19.440
		2	3.550		3.600		25.560
	toilets	2*2	3.300		3.600		47.520
		2*2	3.300		3.600		47.520
		2*2*2	2.700		3.600		77.760
		2*2	3.500		3.600		50.400
		2*2	2.600		3.600		37.441
		2*2	3.700		3.600		53.280
	wash	2*2	6.200		3.600		89.280
		2*2	5.000		3.600		72.000
		2	13.300		3.600		95.760
		2	5.450		3.600		39.240
	column	12*3.14	0.230		3.600		31.200
	column side	16*2*2	0.230		3.600		52.993
	d1	6	1.200		2.100		-15.120
	d2	9	1.000		2.100		-18.900
	d3	10	0.800		2.100		-16.800
	d fire exit	2	1.000		2.100		-4.200
	w2	45	1.500		1.500		-101.250
	v	14	0.600		0.450		-3.780
	glass	2	3.370		2.100		-14.154
		1	5.400		2.100		-11.340
						Total Quantity	3129.798 sqm
						Total Deducted Quantity	-185.544 sqm
						Net Total Quantity	2944.254 sqm

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				Say 2944.254 sqm @ Rs 295.45 / sqm			**Rs 869879.84**	
18	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)							
	sunshade	1	150.300				150.300	
	roof projection	1	199.000	0.200			39.801	
						Total Quantity	190.101 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	190.101 sqm	
				Say 190.101 sqm @ Rs 377.40 / sqm			**Rs 71744.12**	
19	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							
	carpet area	1	1063.200				1063.200	
	duct	2	6.400	1.200			-15.360	
		1	1.200	2.700			-3.240	
		1	1.200	2.700			-3.240	
		1	1.500	1.200			-1.799	
	lift	1	2.500	3.000			-7.500	
	sunshade	1	150.300				150.300	
	roof projection	1	199.000	0.200			39.801	
				beam side				
		12*2	9.900		0.800		190.080	
		4*2	8.100		0.750		48.600	
		4*2	3.190		0.300		7.656	
		8*2	2.600		0.300		12.480	
		2*2	2.530		0.300		3.036	
		10*2	2.800		0.300		16.800	
		10*2	2.800		0.300		16.800	
		2*2	5.400		0.450		9.720	
						Total Quantity	1558.473 sqm	
						Total Deducted Quantity	-31.139 sqm	
						Net Total Quantity	1527.334 sqm	
				Say 1527.334 sqm @ Rs 274.02 / sqm			**Rs 418520.06**	
20	11.38							

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	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (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 bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.							
	wash	2	4.200	1.800			15.121	
		2	3.200	1.800			11.521	
	toilets	2	1.500	1.800			5.400	
		2*2	1.500	1.200			7.200	
		2	2.000	1.500			6.000	
		2	1.100	1.500			3.301	
		2	1.200	1.200			2.880	
						Total Quantity	51.423 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	51.423 sqm	
						Say 51.423 sqm @ Rs 1103.55 / sqm	**Rs 56747.85**	
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.							
	carpet area	1	1063.200				1063.200	
	skirting	1	350.000	0.100			35.000	
	duct	2	6.400	1.200			-15.360	
		1	1.200	2.700			-3.240	
		1	1.200	1.500			-1.799	
	lift	1	2.500	3.000			-7.500	
	toilets	2	1.500	1.800			-5.400	
		2*2	1.500	1.200			-7.199	
		2	2.000	1.500			-6.000	
		2	1.100	1.500			-3.300	
		2	1.200	1.200			-2.880	
	wash	2	4.400	1.800			-15.840	
		2	3.200	1.800			-11.520	
						Total Quantity	1098.200 sqm	
						Total Deducted Quantity	-80.038 sqm	

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						Net Total Quantity	1018.162 sqm	
						Say 1018.162 sqm @ Rs 1661.42 / sqm	**Rs 1691594.71**	
22	8.31 Providing and fixing Ist 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 Engineerin-Charge,in skirting, risers of steps and dados, over 12 mm thick bed of cementmortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @3.3kg per sqm, including pointing in white cement mixed with pigment of matchingshade complete.							
	toilet	2*10	1.500		2.100		63.001	
		2*2	1.800		2.100		15.121	
		2*8	1.200		2.100		40.320	
		2*2	2.000		2.100		16.800	
		2*2	1.100		2.100		9.241	
	wash	2	1.800		0.900		3.240	
		2	2.200		0.900		3.961	
	d3	2	1.000		2.100		-4.200	
	d3	10	0.800		2.100		-16.800	
	v	14	0.600		0.450		-3.780	
						Total Quantity	151.684 sqm	
						Total Deducted Quantity	-24.780 sqm	
						Net Total Quantity	126.904 sqm	
						Say 126.904 sqm @ Rs 1140.80 / sqm	**Rs 144772.08**	
23	od92500/2022_2023 Providing and fixing PVC door shutter with frame including all expenses.							
		12					12.000	
						Total Quantity	12.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	12.000 no	
						Say 12.000 no @ Rs 4685.04 / no	**Rs 56220.48**	
24	13.26 Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.							
	same as plastered area	1	2944.254				2944.254	
		1	190.101				190.101	

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		1	1527.334				1527.334	
	wall tile area	1	126.904				-126.904	
						Total Quantity	4661.689 sqm	
						Total Deducted Quantity	-126.904 sqm	
						Net Total Quantity	4534.785 sqm	
						Say 4534.785 sqm @ Rs 217.78 / sqm	**Rs 987585.48**	
25	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.)							
	front verandah and cut out							
	50mm dia	6	1.000			2.4	14.400	
		3*2	3.870			2.4	55.728	
	cut out	4*2	1.000			2.4	19.200	
		4*2	3.200			2.4	61.440	
	32mm	3*2	3.870			1.6	37.152	
		3*3	3.870			1.6	55.728	
	cut out	8*1	1.000			1.6	12.800	
		8*2	2.600			1.6	66.560	
	stair							
	50mm	2*2	3.740			2.4	35.904	
	post	3*2	3.740			2.4	53.856	
	32mm	3*2	3.740			1.65	37.026	
		5*2	0.950			1.65	15.675	
						Total Quantity	465.469 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	465.469 kg	
						Say 465.469 kg @ Rs 637.13 / kg	**Rs 296564.26**	
26	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							

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	same as putty area	1	4534.785				4534.785	
						Total Quantity	4534.785 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	4534.785 sqm	
						Say 4534.785 sqm @ Rs 142.40 / sqm	**Rs 645753.38**	
27	10.25.1 Item Shifted to head 14 as item 14.74Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In stringers, treads,landings etc. of stair cases, including use of chequered plate wherever required, all complete							
	FF	2	500.000				1000.000	
	SF	2	500.000				1000.000	
						Total Quantity	2000.000 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	2000.000 kg	
						Say 2000.000 kg @ Rs 103.69 / kg	**Rs 207380.00**	
28	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							
	w3	4 5	1.500		1.500	1.5	151.875	
	v	14	0.600		0.450	1.5	5.670	
						Total Quantity	157.545 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	157.545 sqm	
						Say 157.545 sqm @ Rs 134.56 / sqm	**Rs 21199.26**	
29	od87825/2022_2023 Melamine polishing on wood work (one or more coat)							
	d1	6	1.200		2.100	2.25	34.020	
	d2	7	1.000		2.100	2.25	33.075	
						Total Quantity	67.095 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	67.095 sqm	
						Say 67.095 sqm @ Rs 435.61 / sqm	**Rs 29227.25**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
3 First Floor								

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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							
		42	0.650	0.300	4.050		33.170	
		26	0.500	0.230	4.050		12.110	
		8	0.350	0.230	4.050		2.609	
		12*3.14/4	0.230	0.230	4.050		2.019	
	Total Quantity						49.908 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						49.908 cum	
	Say 49.908 cum @ Rs 10303.84 / cum						**Rs 514244.05**	
2	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15^0 landings, balconies, shelves, chajas, 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).							
	sunshade							
		1	150.300		0.100		15.031	
	roof							
		1	1313.830		0.120		157.660	
	stair							
	steps	24*2*0.5	1.500	0.155	0.100		0.558	
	landing	2*1	1.500	1.500	0.100		0.450	
	W.slab	2*2	3.600	1.500	0.100		2.160	
	lintel							
		1	380.800	0.180	0.150		10.282	
	beam							
		8*2	9.900	0.300	0.800		38.017	
		4	8.100	0.300	0.750		7.290	
		2*2	4.350	0.230	0.400		1.601	
		2*2	3.950	0.230	0.400		1.454	
		4*10	2.650	0.230	0.300		7.314	

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		4*2	2.330	0.230	0.300		1.287	
		4*2*2	2.970	0.230	0.300		3.279	
		4*2	5.370	0.230	0.450		4.447	
		3*2	3.300	0.230	0.350		1.594	
		3*2	2.470	0.230	0.300		1.023	
		2*2	5.050	0.230	0.450		2.091	
		2	2.800	0.230	0.300		0.387	
		3*2	5.400	0.230	0.450		3.354	
		2	3.270	0.230	0.350		0.527	
		2	3.970	0.230	0.400		0.731	
		4	4.500	0.230	0.400		1.657	
		2	4.670	0.230	0.400		0.860	
		4	3.190	0.230	0.350		1.028	
		4*2	2.600	0.230	0.300		1.436	
		2	2.500	0.230	0.300		0.348	
		5*2	2.800	0.230	0.300		1.933	
		2	4.300	0.230	0.400		0.792	
						Total Quantity	265.589 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	268.589 cum	
						Say 268.589 cum @ Rs 10810.69 / cum	**Rs 2903632.42**	
3	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
	roof							
		1	1313.830				1313.830	
	sunshade							
		1	150.300				150.300	
	stair							
	landing	2*1	1.500	1.500			4.500	
	W.slab	2*2	3.600	1.500			21.600	
						Total Quantity	1490.230 sqm	
						Total Deducted Quantity	0.000 sqm	

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	Net Total Quantity						1490.230 sqm	
	Say 1490.230 sqm @ Rs 767.35 / sqm						**Rs 1143527.99**	
4	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	sunshade							
		1	150.300		0.100		15.031	
	lintel							
		1*2	380.800		0.150		114.240	
	beam							
		8*2*2	9.900		0.800		253.441	
		4*2	8.100		0.750		48.600	
		2*2*2	4.350		0.400		13.920	
		2*2*2	3.950		0.400		12.640	
		4*10*2	2.650		0.300		63.600	
		4*2*2	2.330		0.300		11.184	
		4*2*2*2	2.970		0.300		28.512	
		4*2*2	5.370		0.450		38.664	
		3*2*2	3.300		0.350		13.860	
		3*2*2	2.470		0.300		8.892	
		2*2*2	5.050		0.450		18.180	
		2*2	2.800		0.300		3.360	
		3*2*2	5.400		0.450		29.161	
		2*2	3.270		0.350		4.578	
		2*2	3.970		0.400		6.352	
		4*2	4.500		0.400		14.400	
		2*2	4.670		0.400		7.472	
		4*2	3.190		0.350		8.932	
		4*2*2	2.600		0.300		12.480	
		2*2	2.500		0.300		3.000	
		5*2*2	2.800		0.300		16.800	
		2*2	4.300		0.400		6.880	
	Total Quantity						754.179 sqm	

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						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	754.179 sqm	
						Say 754.179 sqm @ Rs 611.24 / sqm	**Rs 460984.37**	
5	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	column							
		42*2	0.650		4.050		221.130	
		42*2		0.300	4.050		102.060	
		26*2	0.500		4.050		105.300	
		26*2		0.230	4.050		48.438	
		8*2	0.350		4.050		22.680	
		8*2		0.230	4.050		14.904	
		12*3.14	0.230		4.050		35.099	
						Total Quantity	549.611 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	549.611 sqm	
						Say 549.611 sqm @ Rs 812.38 / sqm	**Rs 446492.98**	
6	5.9.16.1 Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and walls:Under 20 cm wide							
	sunshade	1	203.400				203.400	
	roof	1	199.000				199.000	
						Total Quantity	402.400 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	402.400 metre	
						Say 402.400 metre @ Rs 191.82 / metre	**Rs 77188.37**	
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							
	column	1	49.908			180.0	8983.440	
	lintel	1	10.282			120.0	1233.840	
	beam	1	82.448			150.0	12367.200	
	stair	1	3.168			120.0	380.160	
	sunshade	1	15.031			75.0	1127.325	

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	roof	1	157.660			75.0	11824.500	
							Total Quantity	35916.465 kilogram
							Total Deducted Quantity	0.000 kilogram
							Net Total Quantity	35916.465 kilogram
							Say 35916.465 kilogram @ Rs 92.47 / kilogram	**Rs 3321195.52**
8	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.							
		1	380.800	0.180	3.600		246.759	
	D1	9	1.200	0.180	2.100		-4.082	
	D2	7	1.000	0.180	2.100		-2.646	
	D3	9	0.800	0.180	2.100		-2.721	
	W3	39	1.500	0.180	1.500		-15.795	
	v	13	0.600	0.180	0.450		-0.631	
	lintel	1	10.282				-10.282	
	glass	2	3.370	0.180	2.100		-2.547	
		1	5.400	0.180	2.100		-2.041	
							Total Quantity	246.759 cum
							Total Deducted Quantity	-40.745 cum
							Net Total Quantity	206.014 cum
							Say 206.014 cum @ Rs 7449.06 / cum	**Rs 1534610.65**
9	9.48.1 Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding							
	w3	39	1.500		1.500	20.0	1755.000	
	v	13	0.600		0.450	20.0	70.200	
							Total Quantity	1825.200 kg
							Total Deducted Quantity	0.000 kg
							Net Total Quantity	1825.200 kg
							Say 1825.200 kg @ Rs 183.02 / kg	**Rs 334048.10**
10	50.9.1.2 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							

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	D1	9*1	1.400	0.100	0.075		0.095	
		9*2	1.900	0.100	0.075		0.257	
	D2	5*1	1.200	0.100	0.075		0.045	
		5*2	1.900	0.100	0.075		0.143	
						Total Quantity	0.540 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.540 cum	
						Say 0.540 cum @ Rs 113153.22 / cum	**Rs 61102.74**	
11	50.9.2.2 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required sized with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer in-charge using Pincoda wood							
	D1	9*4	1.900	0.090			6.156	
		9*4	0.280	0.090			0.908	
	D2	5*4	0.670	0.095			1.273	
		5*2	2.000	0.095			1.900	
						Total Quantity	10.237 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	10.237 sqm	
						Say 10.237 sqm @ Rs 3316.18 / sqm	**Rs 33947.73**	
12	50.9.4.2 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 inserts 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							
	D1	9*2	0.280	0.400			2.017	
		9*2	0.280	0.800			4.033	
		9*2	0.280	0.380			1.916	
	D2	5	0.670	0.400			1.340	
		5	0.670	0.800			2.680	
		5	0.670	0.380			1.273	
						Total Quantity	13.259 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	13.259 sqm	

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							Say 13.259 sqm @ Rs 2725.36 / sqm	**Rs 36135.61**
13	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, Aluminnium 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 portionPowder coated aluminium (minimum thickness of powder coating 50 micron)							
	w3	39*2	1.500				117.000	
		39*2	1.500				117.000	
	v	13*2	0.600				15.600	
		13*2	0.450				11.701	
							Total Quantity	261.301 kg
							Total Deducted Quantity	0.000 kg
							Net Total Quantity	261.301 kg
							Say 261.301 kg @ Rs 505.19 / kg	**Rs 132006.65**
14	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)							
	w3	39*2	1.500				117.000	
		39*4	1.500				234.000	
	v	13*2	0.600				15.600	
		13*4	0.450				23.401	
							Total Quantity	390.001 kg
							Total Deducted Quantity	0.000 kg
							Net Total Quantity	390.001 kg
							Say 390.001 kg @ Rs 604.93 / kg	**Rs 235923.30**
15	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							
	w3	39	1.500		1.500		87.750	

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	v	13	0.600		0.450		3.511	
						Total Quantity	91.261 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	91.261 sqm	
						Say 91.261 sqm @ Rs 1106.61 / sqm	**Rs 101006.59**	
16	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							
	outer	1	197.400		3.600		710.640	
	inside seminar hall	2	36.400		3.600		262.080	
	conference hall	2	30.800		3.600		221.761	
	admin room	2	15.000		3.600		108.000	
	stair	2	15.300		3.600		110.161	
	ups	2	7.500		3.600		54.000	
	store room	2	9.900		3.600		71.280	
	office	2	8.200		3.600		59.040	
	reception	2	9.800		3.600		70.560	
	lobby	2	15.600		3.600		112.320	
		2 *2	11.050		3.600		159.120	
		2	2.700		3.600		19.440	
		2	5.000		3.600		36.000	
	toilets	2*2	3.300		3.600		47.520	
		2*2	3.300		3.600		47.520	
		2*2*2	2.700		3.600		77.760	
		2*2	3.500		3.600		50.400	
		2*2	2.600		3.600		37.441	
		2*2	2.400		3.600		34.560	
		2*2	3.700		3.600		53.280	
	wash	2*2	6.200		3.600		89.280	
		2*2	5.000		3.600		72.000	
		2	13.300		3.600		95.760	
		2	5.450		3.600		39.240	
	column	12*3.14	0.230		3.600		31.200	
	column side	16*2*2	0.230		3.600		52.993	

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	d1	9	1.200		2.100		-22.680	
	d2	7	1.000		2.100		-14.700	
	d3	9	0.800		2.100		-15.120	
	d fire exit	2	1.000		2.100		-4.200	
	w2	39	1.500		1.500		-87.750	
	v	13	0.600		0.450		-3.510	
	glass	2	3.370		2.100		-14.154	
		1	5.400		2.100		-11.340	
						Total Quantity	2723.356 sqm	
						Total Deducted Quantity	-173.454 sqm	
						Net Total Quantity	2549.902 sqm	
						Say 2549.902 sqm @ Rs 295.45 / sqm	**Rs 753368.55**	
17	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)							
	sunshade	1	150.300				150.300	
	roof top	1	1440.580				1440.580	
	stair room	2	16.500				-33.000	
	lift	1	7.425				-7.425	
						Total Quantity	1590.880 sqm	
						Total Deducted Quantity	-40.425 sqm	
						Net Total Quantity	1550.455 sqm	
						Say 1550.455 sqm @ Rs 377.40 / sqm	**Rs 585141.72**	
18	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							
	carpet area	1	1063.200				1063.200	
	duct	2	6.400	1.200			-15.360	
		1	1.200	2.700			-3.240	
		1	1.200	2.700			-3.240	
		1	1.500	1.200			-1.799	
	lift	1	2.500	3.000			-7.500	
	sunshade	1	150.300				150.300	
	roof projection	1	199.000	0.200			39.801	
	beam side							

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		13*2	9.900		0.800		205.921	
		3*2	8.100		0.750		36.450	
		4*2	3.190		0.300		7.656	
		8*2	2.600		0.300		12.480	
		2*2	2.530		0.300		3.036	
		10*2	2.800		0.300		16.800	
		10*2	2.800		0.300		16.800	
		2*2	5.400		0.450		9.720	
						Total Quantity	1562.164 sqm	
						Total Deducted Quantity	-31.139 sqm	
						Net Total Quantity	1531.025 sqm	
						Say 1531.025 sqm @ Rs 274.02 / sqm	**Rs 419531.47**	
19	11.37 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 colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.							
	wash	2	4.400	1.800			15.841	
		2	3.200	1.800			11.521	
	toilets	2	1.500	1.800			5.400	
		2*2	1.500	1.200			7.200	
		2	2.000	1.500			6.000	
		2	1.100	1.500			3.301	
		1	2.200	1.500			3.301	
						Total Quantity	52.564 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	52.564 sqm	
						Say 52.564 sqm @ Rs 1026.26 / sqm	**Rs 53944.33**	
20	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.							
	carpet area	1	1063.200				1063.200	
	skirting	1	340.000	0.100			34.000	

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						Total Quantity	1097.200 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	1097.200 sqm	
						Say 1097.200 sqm @ Rs 1661.42 / sqm	**Rs 1822910.02**	
21	8.31 Providing and fixing Ist 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 or any size as approved by Engineerin-Charge,in skirting, risers of steps and dados, over 12 mm thick bed of cementmortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @3.3kg per sqm, including pointing in white cement mixed with pigment of matchingshade complete.							
		2*10	1.500		2.100		63.001	
		2*2	1.800		2.100		15.121	
		2*4	1.200		2.100		20.160	
		2*2	2.000		2.100		16.800	
		2*2	1.100		2.100		9.241	
		2	2.200		2.100		9.241	
		2	1.500		2.100		6.301	
	t	9	0.800		2.100		-15.120	
		2	1.000		2.100		-4.200	
	v	13	0.600		0.450		-3.510	
						Total Quantity	139.865 sqm	
						Total Deducted Quantity	-22.830 sqm	
						Net Total Quantity	117.035 sqm	
						Say 117.035 sqm @ Rs 1140.80 / sqm	**Rs 133513.53**	
22	od92500/2022_2023 Providing and fixing PVC door shutter with frame including all expenses.							
		1	11.000				11.000	
						Total Quantity	11.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	11.000 no	
						Say 11.000 no @ Rs 4685.04 / no	**Rs 51535.44**	
23	od92957/2022_2023 Providing and fixing 12 mm thick frameless toughened glass partition of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing all complete as per direction of Engineer-in-charge							

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	glass	2	3.370		2.100		14.155	
		1	5.400		2.100		11.341	
						Total Quantity	25.496 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	25.496 sqm	
						Say 25.496 sqm @ Rs 6279.61 / sqm	**Rs 160104.94**	
24	13.26 Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.							
	wall plastered area	1	2549.902				2549.902	
		1	150.300				150.300	
		1	1531.025				1531.025	
						Total Quantity	4231.227 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	4231.227 sqm	
						Say 4231.227 sqm @ Rs 217.78 / sqm	**Rs 921476.62**	
25	9.74.1 Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:250x10 mm							
	GF	58					58.000	
	FF	26					26.000	
	SF	28					28.000	
						Total Quantity	112.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	112.000 no	
						Say 112.000 no @ Rs 413.75 / no	**Rs 46340.00**	
26	9.81.1 Providing and fixing bright finished brass handles with screws etc. complete:125 mm							
	GF	29					29.000	
	FF	26					26.000	
	SF	28					28.000	
						Total Quantity	83.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	83.000 no	

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				Say 83.000 no @ Rs 226.64 / no			**Rs 18811.12**	
27	9.113 Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in- charge.							
	GF	20					20.000	
	FF	13					13.000	
	SF	14					14.000	
						Total Quantity	47.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	47.000 each	
				Say 47.000 each @ Rs 705.37 / each			**Rs 33152.39**	
28	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.)							
	front verandah and cut out							
	50mm dia	6	1.000			2.4	14.400	
		3*2	3.870			2.4	55.728	
	cut out	4*2	1.000			2.4	19.200	
		4*2	3.200			2.4	61.440	
	refreshment area	2*2	5.400			2.4	51.840	
		4*2	1.000			2.4	19.200	
	32mm	3*2	3.870			1.6	37.152	
		3*3	3.870			1.6	55.728	
	cut out	8*1	1.000			1.6	12.800	
		8*2	2.600			1.6	66.560	
	refreshment area	2*2	5.400			1.6	34.560	
		2*2	1.870			1.6	11.969	
		3*2	1.000			1.6	9.601	
	stair							
	50mm	2*2	3.740			2.4	35.904	

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	post	3*2	3.740			2.4	53.856	
	32mm	3*2	3.740			1.65	37.026	
		5*2	0.950			1.65	15.675	
						Total Quantity	592.639 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	592.639 kg	
						Say 592.639 kg @ Rs 637.13 / kg	**Rs 377588.09**	
29	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							
	same as putty area	1	4231.227				4231.227	
						Total Quantity	4231.227 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	4231.227 sqm	
						Say 4231.227 sqm @ Rs 142.40 / sqm	**Rs 602526.72**	
30	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							
	w3	3.9	1.500		1.500	1.5	131.625	
	v	13	0.600		0.450	1.5	5.268	
						Total Quantity	136.891 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	136.891 sqm	
						Say 136.891 sqm @ Rs 134.56 / sqm	**Rs 18420.05**	
31	od87825/2022_2023 Melamine polishing on wood work (one or more coat)							
	d1	9	1.200		2.100	2.25	51.030	
	d2	5	1.000		2.100	2.25	23.625	
						Total Quantity	74.655 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	74.655 sqm	
						Say 74.655 sqm @ Rs 435.61 / sqm	**Rs 32520.46**	
32	10.5.2 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming							

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	coat of approved steel primer.Using flats 30x6 mm for diagonal braces and central cross piece							
	fire exit door	4	1.200		2.100		10.080	
						Total Quantity	10.080 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	10.080 sqm	
						Say 10.080 sqm @ Rs 4736.84 / sqm	**Rs 47747.35**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	4 Stair head room and lift room							
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)							
		4	0.800	0.230	2.600		1.436	
						Total Quantity	1.436 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1.436 cum	
						Say 1.436 cum @ Rs 10303.84 / cum	**Rs 14796.31**	
2	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 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).						0	
	lintel							
		2	5.000	0.180	0.150		0.270	
		2*2	3.200	0.180	0.150		0.346	
		2	2.600	0.180	0.150		0.141	
	slab							
		1	33.959		0.120		4.076	
	shade							
		1	26.200	0.650	0.100		1.704	
						Total Quantity	6.537 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	6.537 cum	
						Say 6.537 cum @ Rs 10810.69 / cum	**Rs 70669.48**	

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3	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
	slab							
	lift	1	7.500				7.500	
	stair	1	33.950				33.950	
	shade	1	26.200	0.650			17.030	
						Total Quantity	58.480 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	58.480 sqm	
						Say 58.480 sqm @ Rs 767.35 / sqm	**Rs 44874.63**	
4	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
		2*2	5.000		0.150		3.000	
		2*2*2	3.200		0.150		3.840	
		2*2	2.600		0.150		1.560	
						Total Quantity	8.400 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	8.400 sqm	
						Say 8.400 sqm @ Rs 611.24 / sqm	**Rs 5134.42**	
5	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
		4*2	0.600		2.600		12.480	
		4*2	0.230		2.600		4.785	
						Total Quantity	17.265 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	17.265 sqm	
						Say 17.265 sqm @ Rs 812.38 / sqm	**Rs 14025.74**	
6	5.9.16.2 Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and wallsAbove 20 cm wide							
		1	25.200				25.200	
						Total Quantity	25.200 sqm	

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						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	25.200 sqm	
						Say 25.200 sqm @ Rs 816.39 / sqm	**Rs 20573.03**	
7	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
	column	1	1.436			180.0	258.481	
	lintel	1	0.757			120.0	90.840	
	shade	1	1.704			75.0	127.800	
	roof	1	4.076			75.0	305.700	
						Total Quantity	782.821 kilogram	
						Total Deducted Quantity	0.000 kilogram	
						Net Total Quantity	782.821 kilogram	
						Say 782.821 kilogram @ Rs 92.47 / kilogram	**Rs 72387.46**	
8	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.							
		1	22.800	0.160	2.600		10.671	
	d	1	1.000		2.100		-2.100	
	w3	1	1.500		1.500		-2.250	
	lintel	1	0.757				-0.757	
				parapet				
		1	199.000	0.180	1.000		35.820	
						Total Quantity	46.491 cum	
						Total Deducted Quantity	-5.107 cum	
						Net Total Quantity	41.384 cum	
						Say 41.384 cum @ Rs 7449.06 / cum	**Rs 308271.90**	
9	9.48.2 Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to openings/ wooden frames with rawl plugs screws etc							
	w3	1	1.500		1.500	20.0	45.000	
						Total Quantity	45.000 kg	
						Total Deducted Quantity	0.000 kg	

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						Net Total Quantity	45.000 kg	
						Say 45.000 kg @ Rs 203.17 / kg	**Rs 9142.65**	
10	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, Aluminnium 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 portionPowder coated aluminium (minimum thickness of powder coating 50 micron)								
	w3	1*2	1.500				3.000	
		1*2	1.500				3.000	
						Total Quantity	6.000 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	6.000 kg	
						Say 6.000 kg @ Rs 505.19 / kg	**Rs 3031.14**	
11	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)							
	w3	1*2	1.500				3.000	
		1*4	1.500				6.000	
						Total Quantity	9.000 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	9.000 kg	
						Say 9.000 kg @ Rs 604.93 / kg	**Rs 5444.37**	
12	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							
	w3	1	1.500		1.500		2.250	
						Total Quantity	2.250 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	2.250 sqm	

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	Say 2.250 sqm @ Rs 1106.81 / sqm						**Rs 2490.32**	
13	50.9.1.2 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							
		2	1.200	0.100	0.075		0.018	
		2	1.900	0.100	0.075		0.029	
	Total Quantity						0.047 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.047 cum	
	Say 0.047 cum @ Rs 113153.22 / cum						**Rs 5318.20**	
14	50.9.2.2 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required sized with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer in-charge using Pincoda wood							
		1*4	0.670	0.095			0.255	
		1*2	2.000	0.095			0.380	
	Total Quantity						0.635 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						0.635 sqm	
	Say 0.635 sqm @ Rs 3316.18 / sqm						**Rs 2105.77**	
15	50.9.4.2 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 inserts 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							
		1	0.670	0.800			0.536	
		1	0.670	0.400			0.268	
		1	0.670	0.380			0.255	
	Total Quantity						1.059 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1.059 sqm	
	Say 1.059 sqm @ Rs 2725.38 / sqm						**Rs 2886.18**	
16	13.1.1 12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)							

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	inside							
	stair	2	5.000		2.600		26.000	
		2	3.200		2.600		16.640	
	lift	2	3.000		2.600		15.601	
		1	2.500		2.600		6.500	
	outside							
		1	23.600		2.600		61.361	
	parapet	2	199.000		1.000		398.000	
		1	199.000		0.200		39.801	
	w	1	1.500		1.500		-2.250	
	d	1	1.000		2.100		-2.100	
	d	1	1.500		2.100		-3.150	
						Total Quantity	563.903 sqm	
						Total Deducted Quantity	-7.500 sqm	
						Net Total Quantity	556.403 sqm	
						Say 556.403 sqm @ Rs 295.45 / sqm	**Rs 164389.27**	
17	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							
	stair	1	5.000	3.200			16.000	
	lift	1	3.000	2.500			7.500	
	roof projection	1	4.870				4.870	
	shade	1	17.029				17.029	
						Total Quantity	45.399 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	45.399 sqm	
						Say 45.399 sqm @ Rs 274.02 / sqm	**Rs 12440.23**	
18	13.7.2 12 mm cement plaster finished with a floating coat of neat cement of mix:1:4 (1 cement : 4 fine sand)							
	shade	1	17.029				17.029	
	top	1	33.950				33.950	
						Total Quantity	50.979 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	50.979 sqm	

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	Say 50.979 sqm @ Rs 363.43 / sqm						**Rs 18527.30**	
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							
	same as plastered area	1	556.403				556.403	
		1	45.399				45.399	
	Total Quantity						601.802 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						601.802 sqm	
	Say 601.802 sqm @ Rs 142.40 / sqm						**Rs 85696.60**	
20	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							
	w3	1	1.500		1.500	1.5	3.375	
	Total Quantity						3.375 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						3.375 sqm	
	Say 3.375 sqm @ Rs 134.56 / sqm						**Rs 454.14**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	5 Provision for Plumbing and sanitary arrangements							
	Lump-Sum Total						**Rs 1800000.00**	
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	**6 Provision for Rainwater Harvesting tank and Under Ground Tank**							
	Lump-Sum Total						**Rs 2000000.00**	
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	**7 Provision for Fire Fighting**							
	Lump-Sum Total						**Rs 4000000.00**	
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	**8 Provision for roofing**							
	Lump-Sum Total						**Rs 850000.00**	
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	**9 Provision for electrical including Tranformer(200 KVA)**							
	Lump-Sum Total						**Rs 7000000.00**	
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	**10 Provision for Generator (160KVA)**							

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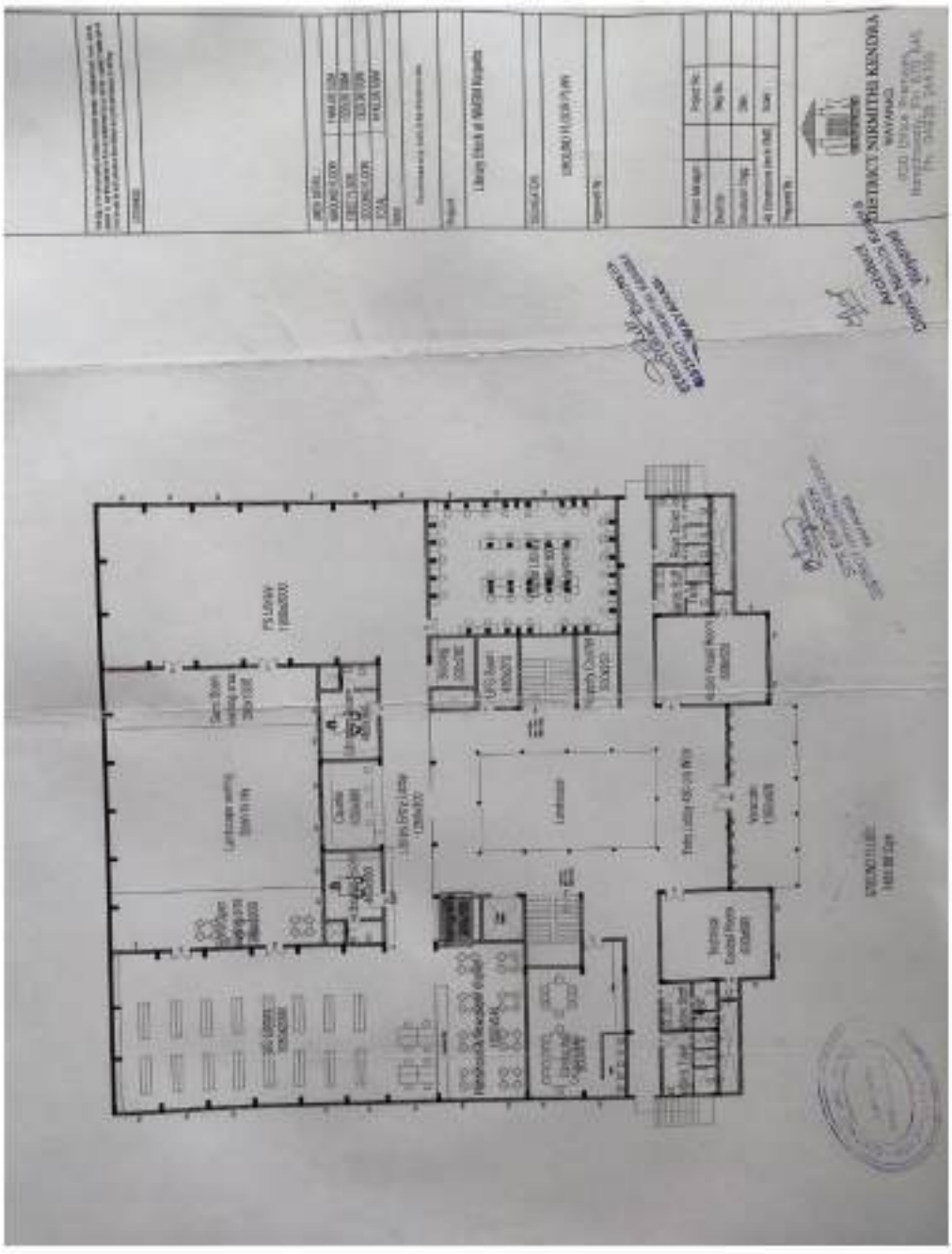
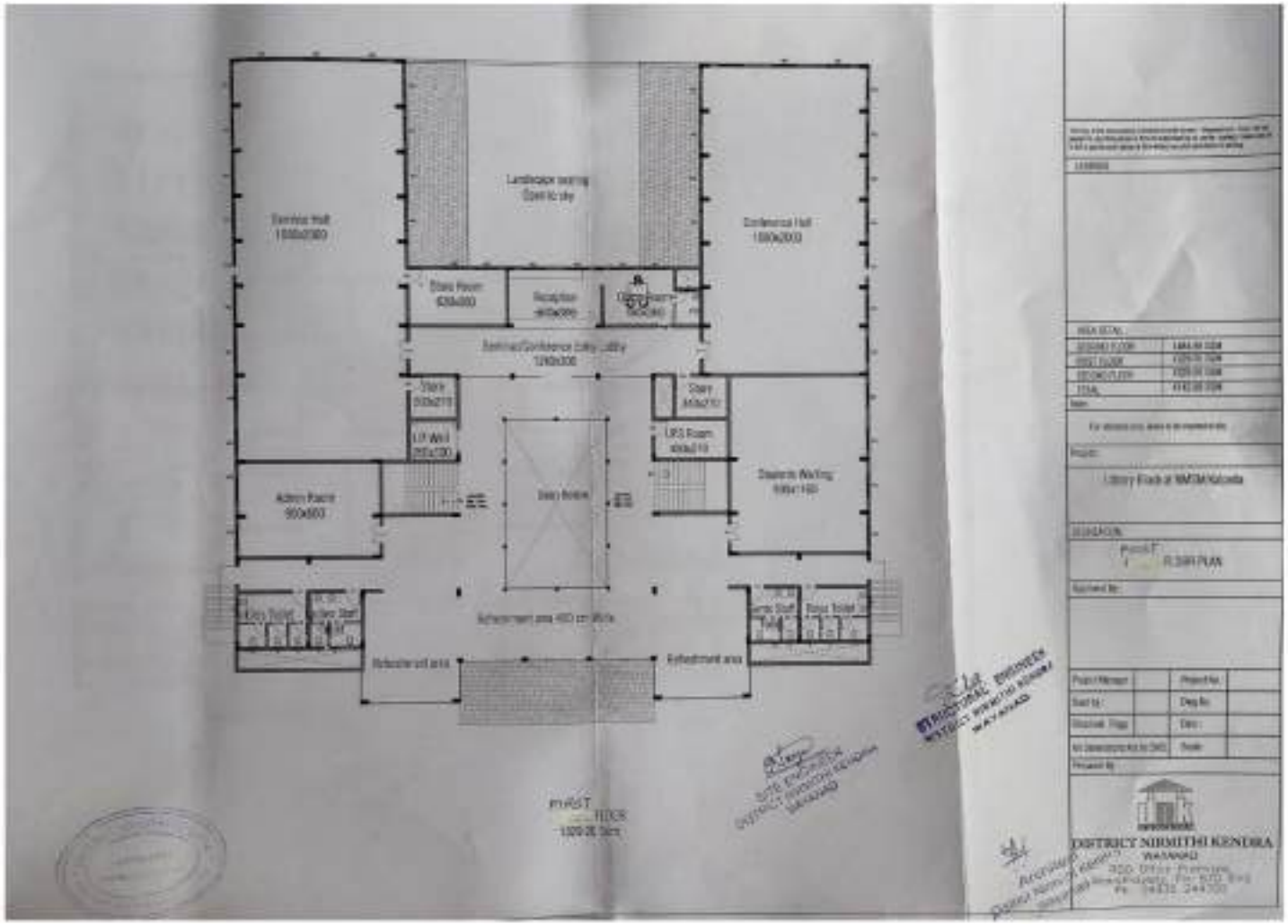
EST

Lump-Sum Total						Rs 1500000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	11 Provision for UPS(100KVA) and battery							
Lump-Sum Total						Rs 1500000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	12 Provision for networking							
Lump-Sum Total						Rs 1000000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	13 Provision for 9nos o2 ton A/C							
Lump-Sum Total						Rs 600000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	14 Provision for PA System							
Lump-Sum Total						Rs 600000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	15 Provision for Lift							
Lump-Sum Total						Rs 2000000.00		
	Sl No	Description	No	L	B	D	CF	Quantity
Remark	16 Provision for management charge 5%							
Lump-Sum Total						Rs 4514166.50		
						Provision for GST payments (in %) @		12.0%
						Amount reserved for GST payments		11375699.52
						Total		106173195.52
						Lumpsum for round off		26804.48
(Cost Index Applied for this estimate is 36.44%)								TOTAL Rs 106200000.00
Note : Rate adopted are exclusive of Contractors Profit.								Rounded Total Rs 10,62,00,000
								Rupees Ten Crore Sixty Two Lakh Only

PLAN OF LIBRARY COMPLEX




Conference Hall
Landscape seating
Open to sky
Store Room
Reception
Conference/Conference Lobby Lobby
Stairs
Stairs
Lift Well
UPS Room
Visitors Waiting
Admin Room
Main Entrance
Refreshment area
Refreshment area
Ladies Toilet
Gents Toilet
Ladies Staff
Gents Staff
Refreshment area 400 sqm Work
FIRST FLOOR
GROUND FLOOR PLAN
DISTRICT NIRMITHI KENDRA
WAYANAD
Project Manager
Drawn by
Checked
Date
Project No
Drg No
Scale
Prepared By

DISTRICT NIRMITHI KENDRA
WAYANAD
Server Room
Online Examination Center Lobby
Seminar Hall
Office Room
Office Room
Staff Room
Staff Room
Girls Toilet
Girls Toilet
Boys Toilet
Boys Toilet
Landscape seating
Open to sky
Hand Wash Room
Passage
Server Room
Seminar Hall
Office Room
Office Room
Staff Room
Staff Room
Girls Toilet
Girls Toilet
Boys Toilet
Boys Toilet
Landscape seating
Open to sky
Hand Wash Room
Passage
Server Room
Online Examination Center Lobby

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GENERAL INFRASTRUCTURE

1. COMPOUND WALL

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1	**2.8.1Earth work in excavation 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 soil as directed, within a lead of 50 m. All kinds of soil**							
	foundation	**1**	**3000.000**	**0.400**	**0.400**		**480.000**	
	Total Quantity						**480.000 cum**	
	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**480.000 cum**	
	Say480.000 cum @ Rs 298.80 / cum						**Rs 143424.00**	
2	**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)**							
	foundation	**1**	**3000.000**	**0.400**	**0.200**		**240.000**	
	Total Quantity						**240.000 cum**	
	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**240.000 cum**	
	Say240.000 cum @ Rs 6857.61 / cum						**Rs 1645826.40**	
3	**5.9.5** **Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers**							

		2	3000.000		0.500		3000.000	
	Total Quantity						3000.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						3000.000 sqm	
	Say3000.000 sqm @ Rs 653.89 / sqm						Rs 1961670.00	
4	5.1.3 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:1:2:4 (1 cement : 2 coarse							
	sand : 4 graded stone aggregate 20 mm nominal size)							
		2	3000.000	0.300	0.300		540.000	
	Total Quantity						540.000 cu	
	Total Deducted Quantity						0.000 cu	
	Net Total Quantity						540.000 cu	
	Say540.000 cum @ Rs 8642.31 / cum						Rs 4666847	
5	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing position and binding all complete upto plinth levelThermo - Mechanically Treated ba grade Fe-500D or more							
	40 KG/ M3	540				40.0	21600.000	
	Total Quantity						21600.00 kilogram	
	Total Deducted Quantity						0.000 kilogr	

	Net Total Quantity					21600.00 kilogram	
	Say21600.000 kilogram @ Rs 98.92 / kilogram					Rs 2136672	
6	50.10.1 Steel work in built up G I tubular (round, square or rectangular hollow tubes etc.) tru etc., including cutting, hoisting, fixing in position and applying a priming coat of appro steel primer, including welding and bolted with special shaped washers etc. comple						
		1	1670.000		1.800	3.69	11092.140
	Total Quantity					11092.140	
	Total Deducted Quantity					0.000 kg	
	Net Total Quantity					11092.140	
	Say11092.140 kg @ Rs 191.08 / kg					Rs 2119436	
7	16.70.1 Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 including strengthening with 2 mm dia wire or nuts , bolts and washers as require complete as per the direction of Engineer-in- charge. Made of G.I. wire of dia 4 mm						
		1	1666.000	1.800		1.8	5397.840
	Total Quantity					5397.840 s	
	Total Deducted Quantity					0.000 sqr	
	Net Total Quantity					5397.840 s	
	Say5397.840 sqm @ Rs 944.30 / sqm					Rs 5097130	
8	10.25.2 Item Shifted to head 14 as item 14.74Steel work welded in built up sections/framed w including cutting, hoisting, fixing in position and applying a priming coat of approved primer using structural steel etc. as required.In gratings, frames, guard bar, ladder railings, brackets, gates and similar works						

	Gate	3	3.000		1.800	32.0	518.400	
	Total Quantity						518.400 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						518.400 kg	
	Say518.400 kg @ Rs 155.13 / kg						Rs 80419.39	
Amount reserved for GST payments							Rs 2142183.07	
Total Rs 19993708.69								
Lumpsum for round off							6291.31	
TOTAL Rs 2.0000000000976004E7								
Rounded Total Rs 20000000.00								
Rupees Two Crores Only								

(Cost Index Applied for this estimate is 36.44%)

2. INTERNAL ROADS

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 TARRING WORKS								
1	**Excavation in Soil with Dozer with lead upto 100 m** **Excavation for roadway in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 m, including trimming bottom and side slopes in accordance with requirements of lines, grades andcross-sections.**							
		1	1000.000	4.000	0.200		800.000	
	Total Quantity						**800.000 cum**	

	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**800.000 cum**	
	Say800.000 cum @ Rs 64.45 / cum						**Rs 51560.00**	
2	**4.9** **Wet Mix Macadam** **Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406.** **By Mechanical Means with 1 km lead**							
		1	**1000.000**	**4.000**	**0.150**		**600.000**	
	Total Quantity						**600.000 cum**	
	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**600.000 cum**	
	Say600.000 cum @ Rs 3336.87 / cum						**Rs 2002122.00**	
3	**75.5.1.1pb** **Prime Coat - Low porosity - With Packed Bitumen Rates** **Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502**							
		1	**1000.000**	**4.000**			**4000.000**	
	Total Quantity						**4000.000 sqm**	

	Total Deducted Quantity					**0.000 sqm**	
	Net Total Quantity					**4000.000 sqm**	
	Say4000.000 sqm @ Rs 75.83 / sqm					**Rs 303320.00**	
4	**75.5.2.3pb** **Tack Coat - With Packed Bitumen Rates** **Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of** **0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.**						
		1	**1000.000**	**4.000**			**4000.000**
	Total Quantity					**4000.000 sqm**	
	Total Deducted Quantity					**0.000 sqm**	
	Net Total Quantity					**4000.000 sqm**	
	Say4000.000 sqm @ Rs 15.83 / sqm					**Rs 63320.00**	
5	**75.5.9.1.2pb** **20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 - Packed Bitumen Rates** **Providing,layingandrollingofopen-gradedpremixcarpetof20mmthicknesscomposedof13.2mmto** **5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followedbysealcoatofeitherTypeAorTypeBorTypeCasperTechnicalSpecificationClause508.** **Case - I By Manual Means** **(II)Bitumen (S-65),including supplying and stacking of materials.**						

		1	1000.000	4.000			4000.000	
	Total Quantity						4000.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						4000.000 sqm	
	Say4000.000 sqm @ Rs 191.48 / sqm						Rs 765920.00	
6	75.5.12.A.1.2pb Seal Coat - Manual Means - Type A - Bitumen S-65 - Packed Bitumen Rates Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A.By Manual Means Case I : Type A (II)Bitumen (S-65),including supplying and stacking of materials.							
		1	1000.000	4.000			4000.000	
	Total Quantity						4000.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						4000.000 sqm	
	Say4000.000 sqm @ Rs 99.16 / sqm						Rs 396640.00	
Amount reserved for GST payments							Rs 429945.84	
Total Rs 4012827.84								
Lumpsum for round off							172.16	
TOTAL Rs 4013000.0								
Rounded Total Rs 4013000.00								
Rupees Forty Lakh Thirteen Thousand Only								

(Cost Index Applied for this estimate is 36.44%)

3. TARRING WORKS

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1	**3.5.2** **Excavation in Soil with Dozer with lead upto 100 m** **Excavation for roadway in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 m, including trimming bottom and side slopes in accordance with requirements of lines, grades andcross-sections.**							
		1	**1000.000**	**3.000**	**0.200**		**600.000**	
	Total Quantity						**600.000 cum**	
	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**600.000 cum**	
	Say600.000 cum @ Rs 64.45 / cum						**Rs 38670.00**	
2	**4.9 Wet Mix Macadam** **Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406.** **By Mechanical Means with 1 km lead**							
		1	**1000.000**	**3.000**	**0.150**		**450.000**	
	Total Quantity						**450.000 cum**	
	Total Deducted Quantity						**0.000 cum**	
	Net Total Quantity						**450.000 cum**	

	Say450.000 cum @ Rs 3336.87 / cum						**Rs 1501591.50**	
3	**75.5.1.1pb** **Prime Coat - Low porosity - With Packed Bitumen Rates** **Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502**							
		1	**1000.000**	**3.000**			**3000.000**	
	Total Quantity						**3000.000 sqm**	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						**3000.000 sqm**	
	Say3000.000 sqm @ Rs 75.83 / sqm						Rs 227490.00	

	Net Total Quantity	3000.000 sqm
	Say3000.000 sqm @ Rs 99.16 / sqm	**Rs 297480.00**
	Amount reserved for GST payments Rs 322459.38	
	Total Rs 3009620.88	
	Lumpsum for round off	**379.12**
	TOTAL Rs 3010000.0	
	Rounded Total Rs 3010000.00	
	Rupees Thirty Lakh Ten Thousand Only	

4	75.5.2.3pb Tack Coat - With Packed Bitumen Rates Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.								
		1	**1000.000**	**3.000**			**3000.000**		
	Total Quantity						**3000.000 sqm**		
	Total Deducted Quantity						**0.000 sqm**		
	Net Total Quantity						**3000.000 sqm**		
	Say3000.000 sqm @ Rs 15.83 / sqm						**Rs 47490.00**		
5	**75.5.9.1.2pb** **20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 - Packed Bitumen Rates** **Providing,layingandrollingofopen-gradedpremixcarpetof20mmthicknesscomposedof13.2mmto** **5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller**								

	capacity, finished to required level and grades to be followedbysealcoatofeitherTypeAorTypeBorTypeCasperTechnicalSpecificationClause503. Case - I By Manual Means (II)Bitumen (S-65),including supplying and stacking of materials.							
		1	1000.000	3.000			3000.000	
	Total Quantity						3000.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						3000.000 sqm	
	Say3000.000 sqm @ Rs 191.48 / sqm						Rs 574440.00	
6	75.5.12.A.1.2pb Seal Coat - Manual Means - Type A - Bitumen S-65 - Packed Bitumen Rates Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A.By Manual Means Case I : Type A (II)Bitumen (S-65),including supplying and stacking of materials.							
		1	1000.000	3.000			3000.000	
	Total Quantity						3000.000 sqm	
	Total Deducted Quantity						0.000 sqm	

4. DRINKING WATER FACILITY

NMSM Govt. College at present has four Post graduate courses and 5 under graduate courses along with other language and subsidiary departments. Moreover library, administration, hostels, various centres for curricular and extra-curricular activities also exists in the college. At present college has one open well and water tank with limited storage capacity. The present capacity of the drinking water facility functioning in the college is inadequate.

Sl no	Items	Specification	Sq.ft area	Estimated amount
1	**Open well**	**20-meter length, 5-meter diameter**		**2000000**
2	**Water storage tank**	**10-meter height,**	**1500**	**6750000**
3	**Motor**	**5 hp**		**100000**
4	**Pipe connection up to buildings**			**500000**
5	**Purifier**			**300000**
6	**Automation**			**500000**
7	**Filtration**	**Water purification plant 2000 LHP**		**425000**
TOTAL				**10575000**

Justification

The existing operation of the drinking water facility is inadequate to transform upcoming infrastructure in a complete functional one. There is an urgent need to to solve water shortage during summer time.

Expected outcome

- Helps to solve water shortage during summer.
- Water hygienic and hydrated campus environment.
- Helps to avoid early closing of departments and hostels due to water shortage.

5. SOLAR PANELING

The rooftop Solar Panelling aims to reduce cost of energy bill of the college. With new technology being readily available, the maintenance of solar panels is becoming easier. Solar energy is a clean and renewable energy source. Once a solar panel is installed, solar energy can be produced free of charge. Solar cells make absolutely no noise at all. There are no moving parts in a solar cell which makes it impossible to really damage them.

Requirements					
Sl . No	**Item / Work**	**Specifications/ Measurements**	**Numbers**	**Total Numbers/ Measurements**	**Expected Cost**
1	**Solar Panel 440 watt**	**Cell Technology: -Cut Mono-Crystalline** **Assembly Technology: - Low Iron tempered Solar Glass with Anti-Reflective Coating, 3-layerFluoro based UV & Weather Stable White Back sheet, IP68 Certified Advanced Split Junction Box, Silver Anodised Aluminium Frame**	**2100**		**4.2 Crore**

Justification

At present KSEB is supplying power to the college. As the college expands, so does energy consumption and cost incurred towards the same. Replacing the existing power supply system with a solar power system would be of great economic benefit.

Expected Outcome

The rooftop can be efficiently utilized and the energy bill expense can be avoided.

STUDENT AMENITIES

1. WOMEN'S HOSTEL

ABSTRACT OF THE PROPOSAL

Sl No	Item of expenditure	Expected cost
1	**Hostel Building**	**24,16,87,500**
2	**Students Room**	**49,00,000**
3	**Warden Room**	**40,000**
4	**Office Room**	**1,15,000**
5	**Resident Tutor Room**	**40,000**
6	**Dining Hall**	**3,60,000**
7	**Kitchen**	**5,80,000**
8	**Watchman Room**	**15,000**
9	**Visitors Reception Area**	**1,00,000**
10	**Reading Area**	**2,15,000**
11	**Recreation room**	**70,000**
12	**Dormitory**	**1,00,000**
Grand Total		**24,82,22,500**
Rupees :Twenty four Crore Eighty two lakh Twenty two thousand and Five hundred Only		

Existing Facilities

The existing college hostel has a very limited capacity to accommodate only 45 students and it currently functions with inadequate facilities. As the college expands, a full- fledged girl's hostel with all required facilities would be indispensable. We envisage a full-fledged hostel for our girl students which can provide accommodation to 400 students. This requirement attains urgency when the unique geographical location of the college and the poor economic background of the students are taken into account. Majority of students are from poor financial background and it is very difficult for them to find accommodation outside the

college hostel since it requires huge financial expenses. In order to address the issue, a proposal has been put forth for the construction of a girl's hostel covering an area of 52775 sqft.

Requirements of building

(Considering proposed new UG and PG course)

Sl.No	Item / Work	Specifications / Measurements	Nos	Total Measurements	Expected Cost
1	**Corridor**	**300sqft**	**2**	**600 sqft**	**27,00,000**
2	**Students Rooms**	**415 sqft(5Nos)**	**80**	**33,200 sqft**	**14,94,00,000**
3	**Wardenroom (Bath attached)**	**250 sqft**	**2**	**500 sqft**	**22,50,000**
4	**Office Room (Bath attached)**	**300 sqft**	**1**	**300 sqft**	**14,55,000**
5	**Staff Rest room(Bath attached)**	**250 sqft**	**1**	**250 sqft**	**11,25,000**
6	**Resident tutor's Room(Bath attached)**	**250 sqft**	**2**	**500 sqft**	**22,50,000**
7	**Dining Hall**	**3000 sqft**	**1**	**3000 sqft**	**1,35,00,000**
8	**Kitchen**	**1500 sqft**	**1**	**1500 sqft**	**67,50,000**
9	**Provision Store room**	**100 sqft**	**1**	**100 sqft**	**4,50,000**
10	**Utensils Store Room**	**100 sqft**	**1**	**100 sqft**	**4,50,000**
11	**Pantry**	**200 sqft**	**1**	**200 sqft**	**9,00,000**
12	**Sanitary Units**	**500 sqft (2Nos)**	**10**	**5000 sqft**	**2,25,00,000**
13	**Watchman Room(Bath**	**250 sqft**	**1**	**250 sqft**	**11,25,000**

	attached)				
14	Reading Area(open hall)	1000 sqft	2	2000 sqft	90,00,000
15	Visitor's reception Area	100 sqft	1	100sqft	2 Lakhs
16	Recreation room	400 sqft	1	400 sqft	18,00,000
17	Dormitory facility	2000 sqft	1	2000 sqft	90,00,000
18	Network Room	75 sqft	1	75 sqft	3,37,500
19	Bath Room	300 sqft	4	1200 sqft	54,00,000
20	Latrine	300 sqft	4	1200 sqft	54,00,000
21	Bath room for Dormitory	150 sqft	2	300 sqft	13,50,000
22	Rain Harvesting Unit	10,000 litre Capacity constructed Units	2		2,00,000
23	Waste Management Unit	Constructed unit with facility of Bio Gas Generation	1		2,00,000
24	Compound wall				20,00,000
25	Vehicle Parking Facility				5,00,000
26	Front area beautification				10,00,000
27	Play Field				3,00,000
Total				52775sqft	24,16,87,500

Requirements for Students' Rooms

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Standard Hard Wood with Book Rack (4x2x2.5)**	**400**	**3000**	**12,00,000**
2	**Chairs**	**Standard Hard wood or Plastic chairs**	**400**	**1500**	**6,00,000**
3	**Cot**	**Standard Hard wood single cots**	**400**	**5000**	**20,00,000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**400**	**2000**	**8,00,000**
5	**Book Shelf**	**Standard open Steel Bookshelf**	**100**	**3000**	**3,00,000**
Total					**49,00,000**

Requirements of Warden's Room

(Nos 2)

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**
2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**2000**	**5,000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**3,000**	**3,000**

5	**Shelf**	**Standard enclosed steel Shelf**	**1**	**5,000**	**5,000**
Total20,000x2=40,000					**40,000**

Requirements of Office Room

Sl No.	Items	Specifications	Nos.	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**
2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Shelf**	**Standard enclosed steel Shelf**	**1**	**5,000**	**5,000**
4	**Wooden Racks**	**Wooden Racks to keep Students Details**	**10**	**2,000**	**20,000**
5	**Desktop**	**Desktop with latest OS and UPS**	**1**	**40000**	**40,000**
6	**Desktop table**	**Harwood Computer Table**	**1**	**3000**	**3,000**
7	**CCTV**	**CCTV Surveillance facility Standard camera**	**4**	**5000**	**20,000**
8	**Internet connectivity**	**High speed internet connectivity with Wi-Fi**			**20,000**
Total					**1,15,000**

Requirements of Resident Tutor's Room

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5,000**	**5000**

2	**Chairs**	**Teak wood chair with arm rest**	**1**	**5,000**	**2000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**5000**	**5000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**5000**	**3,000**
5	**Shelf**	**Standard enclosed steel Shelf**	**40**	**5,000**	**5000**
Total 20000 x 2=					**40,000**

Requirements of Dining Hall

Sl No.	Items	Specifications	No. of Pieces	Rate	Amount
1.	**Dining Table**	**Standard Dining Table**	**10**	**3000**	**3,00,000**
2	**Chairs**	**Standard Hardwood/ Plastic chair**	**60**	**1000**	**60,000**
Total					**3,60,000**

Requirements of Kitchen

Sl No.	Items	Specifications	No .of Pieces	Rate	Amount
1.	**Cutting Table and chair**	**Stainless steel Standard Cutting table and chair**	**1**	**10000**	**10,000**
2	**Kitchen sink**	**Standard steel kitchen sink**	**2**	**5000**	**10,000**
3	**Fridge and freezer**	**Five star double door refrigerator and**	**2**		**1,00,000**

		standard Freezer			
4	**Wet grinder**	**Branded 50 liter commercial wet Grinder**	**1**	**40000**	**40,000**
4	**Kitchen shelf**	**Kitchen Shelf – Fabrication with racks**	**1**	**1,20000**	**1.20,000**
5	**Stove with Gas connection**	**Four Burner Commercial Cooking range gas stove with LPG Connection**		**1,00,000**	**1,00,000**
6	**Other Kitchen Utensils**				**2,00,000**
Total					**5,80,000**

Requirements of Watchman's Room

Sl No.	Items	Specifications	No. of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**
2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**5000**	**5 ,000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**3000**	**3,000**
Total					**15,000**

Requirements of Open Hall with Reading Area

Sl	Items	Specifications	No.of	Rate	Amount

No.			Pieces		
1.	**Chair**	**Standard cushion Chairs**	**20**	**8000**	**1,60,000**
2	**Racks**	**Newspaper and magazine Racks**	**1**	**5000**	**5,000**
3	**Television**	**40 inch Branded smart TV**	**1**	**50000**	**50,000**
Total					**2,15,000**

Requirements of Visitor's Reception Area

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Settee**	**Standard Five seated sofa**	**1**	**50,000**	**50,000**
2	**Chair**	**Standard Cushion chair with arm rest**	**4**	**10000**	**40,000**
2	**Centre Table**	**Premium Glass Topped centre table**	**1**	**10000**	**10,000**
Total					**1,00,000**

Requirements of Recreation Room

Sl No.	Items	Specifications	Amount
1.	**Audio Equipment**	**Standard Sound player and high quality audio speaker**	**20,000**
2	**Exercise Equipment**	**Cardiovascular Exercise Equipment for ladies**	**50,000**

Total	**70,000**

Requirements of Dormitory

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Cots**	**Cots with Upper and Lower Berth**	**50**	**10,000**	**50,000**
Total 50,000 x 2=					**1,00,000**

Justification

The existing girls' hostel of the college has a very limited capacity to accommodate only 45 students and it currently functions with inadequate facilities. As the college expands, a full-fledged girl's hostel with all required facilities would be indispensable. We envisage a full-fledged hostel for our girl students which can provide accommodation to 400 students. This requirement attains urgency when the unique geographical location of the college and the poor economic background of the students are taken into account. Majority of students are from poor financial background and it is very difficult for them to find accommodation outside the college hostel since it requires huge financial expenses. In order to address the issue, a proposal has been put forth for the construction of a girl's hostel.

Expected outcome

It is an incentive for students who are reluctant to get admission in college due to the inadequacy of accommodation. This proposal enables and encourages students to improve access to education. Hostel facilities are available for students from socially and educationally backward sections, especially those from rural and other districts.

2. MENS' HOSTEL

ABSTRACT OF THE PROPOSAL

Sl No	Item of expenditure	Expected cost	Remarks
1	**Hostel Building**	**8,42,37,500**	
2	**Students Room**	**14,50,000**	
3	**Warden Room**	**20,000**	
4	**Office Room**	**1,05,000**	
5	**Resident Tutor Room**	**20,000**	
6	**Dining Hall**	**2,00,000**	
7	**Kitchen**	**5,30,000**	
8	**Security cabin**	**15,000**	
9	**Visitors Reception Area**	**2,15,000**	
10	**Reading Area**	**1,00,000**	
11	**Recreation room**	**1,70,000**	
12	**Dormitory**	**75,000**	
14	**Network unit**	**1,36,250**	
Grand Total		**8,72,73,750**	

NMSM Govt. College Kalpetta offers 6 undergraduate and 4 post graduate courses.30% of the students in the college are boys. At present the College doesn't have any hostel facilities for boys. Hence the students are forced to reside outside, which is too expensive for the students to afford. The current facility for accommodating 100 students is proposed under the five-year plan which includes infrastructure and furniture.

Requirements of building

Sl. No	Item / Work	Specifications / Measurements	Nos	Total Measurements	Expected Cost
1	**Corridor cum visitor's lounge**	**300 sqft**	**1**	**300 sqft**	**13,50,000**
2	**Students Room**	**400 sqft**	**20**	**8000 sqft**	**3,60,00,000**
3	**Warden Room (Bath attached)**	**250 sqft**	**1**	**250 sqft**	**11,25,000**
4	**Office Room(Bath attached)**	**300 sqft**	**1**	**300 sqft**	**13,50,000**
5	**Resident tutors' Room(Bath attached)**	**250 sqft**	**1**	**250 sqft**	**11,25,000**
	Staff rest room (Bath attached)	**250 sqft**	**1**	**250 sqft**	**11,25,000**
6	**Dining Hall**	**1000 sqft**	**1**	**1000 sqft**	**45,00,000**
	Kitchen	**800 sqft**	**1**	**800 sqft**	**36,00,000**
	Provision store room	**50 sqft**	**1**	**50 sqft**	**2,25,000**
7	**Utensils store room**	**50 sqft**	**1**	**50 sqft**	**2,25,000**
9	**Sanitary Units**	**500sqft**	**2**	**1000 sqft**	**45,00,000**
10	**Watch man Room(Bath attached)**	**250 sqft**	**1**	**250 sqft**	**11,25,000**
11	**Reading Area(open hall)**	**700 sqft**	**1**	**700 sqft**	**31,50,000**
13	**Recreation room**	**300 sqft**		**300 sqft**	**13,50.000**
14	**Dormitory facility**	**3000 sqft**	**1**	**3000 sqft**	**1,35,00,000**

15	Network Room	75 sqft	1	75 sqft	3,37,500
	Bath Room	300 sqft	2	600 sqft	27,00,000
	Latrine	300sqft	2	600 sqft	27,00,000
	Bath Room for Dormitory	150 sqft	1	150 sqft	6,75,000
	Latrine for Dormitory	150 sqft	1	150 sqft	6,75,000
16	Rain Harvesting Unit	10,000 litre Capacity constructed Units	2		2,00,000
18	Waste Management Unit	Constructed unit with facility of Bio Gas Generation	1		2,00,000
19	Compound wall				10,00,000
	Front area beautification				8,00,000
	Vehicle Parking Facility				5,00,000
	Play court				2,00,000
Total				18,075	8,42,37,500

Requirements of Students Rooms

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	Table	Standard Hard Wood with Book Rack (4x2x2.5)	100	3000	30,0000

2	**Chairs**	**Standard Hard wood or Plastic chairs**	**100**	**1500**	**15,0000**
3	**Cot**	**Standard Hard wood single cots**	**100**	**5000**	**50,0000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**100**	**2000**	**20,0000**
5	**Book Shelf**	**Standard open Steel Bookshelf**	**100**	**3000**	**30,0000**
Total					**14,50,000**

Requirements of Wardens' Room

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**
2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**5000**	**5,000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**3,000**	**3,000**
5	**Shelf**	**Standard enclosed steel Shelf**	**1**	**5,000**	**5,000**
Total					**20,000**

Requirements of Office Room

Sl No.	Items	Specifications	Nos.	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**
2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Shelf**	**Standard enclosed steel Shelf**	**1**	**5,000**	**5,000**
4	**Wooden Racks**	**Wooden Racks to keep Students Details**	**10**	**2,000**	**20,000**
5	**Desktop**	**Desktop with latest OS and UPS**	**1**	**40000**	**40,000**
6	**Desktop table**	**Harwood Computer Table**	**1**	**3000**	**3,000**
7	**CCTV**	**CCTV Surveillance facility Standard camera**	**2**	**5000**	**10,000**
8	**Internet connectivity**	**High speed internet connectivity with Wi-Fi**			**20,000**
Total					**1,05,000**

Requirements of Resident Tutor's Room

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5,000**	**5000**

2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2,000**	**2000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**5000**	**5000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**3000**	**3,000**
5	**Shelf**	**Standard enclosed steel Shelf**	**40**	**5,000**	**5000**
Total					**20,000**

Requirements of Dining Hall

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Dining Table**	**Standard Dining Table**	**5**	**30000**	**150000**
2	**Chairs**	**Standard Hardwood/ Plastic chair**	**50**	**1000**	**50,000**
Total					**2,00,000**

Requirements of Kitchen

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Cutting Table and chair**	**Stainless steel Standard Cutting table and chair**	**1**	**10000**	**10,000**

2	**Kitchen sink**	**Standard steel kitchen sink**	**2**	**5000**	**10,000**
3	**Fridge and freezer**	**Five star double door refrigerator and standard Freezer**	**1**	**50,000**	**50,000**
4	**Wet grinder**	**Branded 50 liter commercial wet Grinder**	**1**	**40000**	**40,000**
4	**Kitchen shelf**	**Kitchen Shelf – Fabrication with racks**	**1**	**1,20000**	**1.20,000**
5	**Stove with Gas connection**	**Four Burner Commercial Cooking range gas stove with LPG Connection**		**1,00,000**	**1,00,000**
6	**Other Kitchen Utensils**				**2,00,000**
Total					**5,30,000**

Requirements of Watchman's cabin

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Table**	**Teak Wood / Steel Table with cupboard in two sides with Locking facility**	**1**	**5000**	**5,000**

2	**Chairs**	**Teak wood chair with arm rest**	**1**	**2000**	**2,000**
3	**Cot**	**Standard Hard wood single cots**	**1**	**5000**	**5 ,000**
4	**Bed**	**Standard Metal Bunk Single Bed**	**1**	**3000**	**3,000**
Total					**15,000**

Requirements of Open Hall with Reading Area

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Chair**	**Standard cushion Chairs**	**20**	**8000**	**1,60,000**
2	**Racks**	**Newspaper and magazine Racks**	**1**	**5000**	**5,000**
3	**Television**	**40 inch Branded smart TV**	**1**	**50000**	**50,000**
Total					**2,15,000**

Requirements of Visitor's Reception Area

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Settee**	**Standard Five seated sofa**	**1**	**50,000**	**50,000**
2	**Chair**	**Standard Cushion chair with arm rest**	**4**	**10000**	**40,000**

2	**Centre Table**	**Premium Glass Topped centre table**	**1**	**10000**	**10,000**
Total					**1,00,000**

Requirements of Recreation Room

Sl No.	Items	Specifications	Amount
1.	**Audio Equipment**	**Standard Sound player and high quality audio speaker**	**20,000**
2	**Exercise Equipment**	**Cardiovascular Exercise Equipment for Boys**	**1,50,000**
Total			**1,70,000**

Requirements of Dormitory

Sl No.	Items	Specifications	No.of Pieces	Rate	Amount
1.	**Cots**	**Cots with Upper and Lower Berth**	**50**	**10,000**	**50,000**
2	**Wash Basin**	**Basin with Waste coupling**	**10**	**2,500**	**25,000**
Total					**75,000**

Network Units

Sl.No	Items	Specifications	Units	Rate	Amount
1	**UPS & Battery**	**5.2KVA -72V&4420 W**	**1**	**106250**	**1,06250**
2	**CCTV**	**CCTV Surveillance facility Standard camera**	**6**	**5000**	**30,000**
TOTAL					**1,36,250**

Justification

At present the college doesn't have any hostel facility for boys. Students from rural areas, especially belonging to weaker sections of the society, often discontinue their studies because of the non-availability of adequate hostel facilities.

Expected outcome

It will provide hostel facilities to students belonging to socially and educationally backward classes, especially from rural areas and also other districts. Thus, will enable, ensure and encourage the students to pursue higher education.

3. HEALTH CENTRE

The Health Centre aims to enhance the healthcare experience of the NMSM college campus community by providing healthcare with consideration. Health centre will caters to the needs of students, staff, non-teaching staff of the college and to a limited extend to the needs of the surrounding cluster of tribal colonies near the college. All students and staff members of college can avail medical facilities at the centre. Service of Regular medical officers and technicians are essential.

Infrastructure Requirements

Sl.No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost
	Examination table cum bed		**5**		**1.25 lakhs/-**
	Writing tables with table sheets		**6**		**1.2 lakhs**
	Plastic chairs (for in-patients' attendants)		**40**		**80000/-**
	Full size steel wardrobe		**6**		**1.5 lakh**
	Table for Immunization/FP/Counseling		**4**		**50000/-**
	Bench for waiting area		**10**		**50000/-**
	Wheel Chair		**4**		**50000/-**
	Stretcher on trolley		**5**		**60000/-**
	Hospital Bed		**5**		**1 lakh**
	Bed side table		**5**		**50000/-**
	Ceiling Fan		**10**		**50000/-**
	Tube light		**10**		**25000/-**
	Basin		**4**		**16000/-**

	Basin Stand		**4**		**40000/-**
	LPG Stove and Cylinder		**2**		**15000/-**
Total					**10 lakhs/-**

Medical/ Surgical items

Sl.No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost
	Blood Pressure Apparatus (Non-mercury is desirable)		**3**		**25000/-**
	Stethoscope		**3**		**30000/-**
	Thermometer clinical		**4**		**15000/-**
	Tongue Depressor		**10 unit**		**2000/-**
	Torch		**2**		**3000/-**
	Hub Cutter		**2**		**10000/-**
	Needle Destroyer		**2**		**10000/-**
	Nebuliser		**2**		**10000/-**
	IV stand		**5**		**40000/-**
	Hospital Bed		**4**		**75000/-**
	Bed side table		**4**		**40000/-**
	Ceiling Fan		**6**		**35000/-**
	Tube light		**8**		**15000/-**
	Basin		**2**		**10000/**

	Basin Stand		**2**		**6000/-**
	LPG Stove and Cylinder		**2**		**15000/-**
	Gluco meter		**3**		**15000/-**
	Setting up of Laboratory and Equipment for blood test/ urine test and other routine tests. (reagents and test strips included)				**lakhs**
	Emergency Medicines and drug kits				**lakhs**
Total					**43 lakhs/-**

Requirement of buildings / rooms

Sl.No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost
1	**Entrance with Barrier free access and parking area**			**1000 sqft**	**45 Lakhs**
2	**Ramp and hand railing system**			**500 sqft**	**22.5 lakhs**
3	**Waiting Area carrying posters imparting health measures**	**1000**	**1**	**1000 sqft**	**45 Lakhs**

4	**Toilets with adequate water supply separate for males and females**	**500 sqft**	**2**	**1000 sqft**	**45 Lakhs**
5	**Drinking water facility**		**2**		**1 lakh**
6	**Consultation room**	**300 sqft**	**3**	**900 sqft**	**40.5 Lakhs**
7	**Examination room(adjacent to consultation room)**	**300 sqft**	**3**	**900 sqft**	**40.5 Lakhs**
8	**Immunization/counseling room**	**250 sft**	**1**	**250 sqft**	**11.25 Lakhs**
9	**Dormitory/ wards**	**800 sqft**	**1**	**800 sqft**	**36 Lakhs**
10	**Nursing Station**	**500 sqft**	**1**	**500 sqft**	**22.5 Lakhs**
11	**Dirty Utility room**	**250 sqft**	**2**	**500 sqft**	**22.5 Lakhs**
13.	**Laboratory**	**800 sqft**	**1**	**800 sqft**	**36 Lakhs**
15	**Cold chain room**	**250 sft**	**1**	**250 sqft**	**11.25 Lakhs**
16	**Rest Room**	**400 sqft**	**2**	**800 sqft**	**36 Lakhs**
17	**Generator room**	**250 sft**	**1**	**250 sqft**	**11.25 Lakhs**
18	**Water storage facility (over head tank)**				**5 Lakhs**
19	**Dispensing cum store area**	**500 sqft**	**1**	**500 sqft**	**22.5 Lakhs**
	Waste disposal pit		**2**		**3 lakhs**
Total					**4.5 Crores**

Justification

Many students and staff members of the college often suffer significant health issues mainly

due to the climatic conditions prevailing in Wayanad. And many need help managing serious conditions like asthma, ADHD, eating disorders, and other physical disabilities. Providing an immediate medicinal and first aid to all students and staff is necessary.

Expected Outcome

Health centre will provide medical support in the campus to provide immediate medical assistance to needy students and staff members.

SPORTS AMENITIES

1. MULTI- PURPOSE INDOOR STADIUM

General requirements of the multi-purpose Indoor Stadium (A)

Sl No	Items	Details (approximate)
1.	**Administration office**	**1500 Sqft**
2.	**Multi use area for office and storage**	**500 SQFT**
3.	**Volley ball court**	**2000 SQ FT**
4.	**Basketball court**	**4000 Sqft**
5.	**Badminton court**	**1200 Sqft**
6.	**Parking facilities (for 15 cars)**	**2500 SQFT**
7.	**Reception Area and Security Room**	**1500 SQFT**
8.	**Gymnasium**	**1000 Sqft**
9.	**Toilets**	**400 Sqft**
10.	**Bed room**	**280 Sqft**
11.	**Seminar hall**	**500 Sqft**
12.	**Meditation hall**	**500 Sqft**
13.	**TOTAL AREA**	**16000 Sqft**
14.	**EV Charging Port at Parking Area (5 nos)**	**Rs.500000**
15.	**Land development and landscaping**	**Rs 25,00,000**
16.	**CCTV**	**Rs 1,00,000**
17.	**Fencing**	**Rs 5,00,000**
18.	**Water source**	**Rs 1,25,000**
19.	**Computer and Printer**	**Rs 1,00,000**
20.	**Waste Disposal Unit**	**Rs 5,00,000**
	TOTAL (A)	**Rs 43,25,000**

Requirements regarding furnishing, equipment and facilities (B+C+D)

Sl No	Item	Units	Est. Cost (approximate)
1.	**Office Table**	**4**	**36000 / item = Rs 144000**
2.	**Office chair**	**4**	**8500/ item = Rs 34000**
3.	**Book Shelf and Storage space**	**4**	**6000/ item = Rs 24,000**
4.	**Visitors chair**	**10**	**8500/item = Rs 85,000**
5.	**Table**	**4**	**25000/item = Rs 1,00,000**
6.	**Chairs**	**16**	**3500/item = Rs 56,000**
7.	**Six Seater Sectional Sofa**	**1**	**35000/item =Rs 35,000**
8.	**43 Inch TV set**	**1**	**35000/item = Rs 35,000**
9.	**Bed +cot**	**1**	**25000/item = Rs 25,000**
10.	**Air Conditioner 1.5 Ton for Master Bedroom**	**1**	**40000/item = Rs 40,000**
	TOTAL INTERIOR(B)		**Approx Rs 5,78,000**
	Exterior		
	Flooring (Teak wood)	**8000/sqft**	**16,00,000**
	Bathroom Tiling	**1000/sqft**	**12,00,00**
	Bathroom Fittings		**1,10,000**
	Flood light	**16**	**2,00,000**
	Sound system		**50,000**

	Music system		**50,000**
	Volley ball post-iron	**2**	**50000**
	Basketball hydraulic post	**2**	**5,00,000**
	Badminton post	**2**	**30,000**
	Gymnasium equipment		**7,00,000**
	Electrical Fittings		**5,00,000**
	Plumbing Works		**3,00,000**
	TOTAL (C)		**52,10,000**
	TOTAL (D) Superstructure complete	**@4500/sqft*16000**	**Rs 7,20,00,000/-**
	GRAND TOTAL (A+B+C+D)		Rs.8,21,13,000

Justifications

There are plenty of students in our college having tremendous potential and talent for various games. But scarcity of facilities is a big barrier to improve their performance. To give them adequate training we need a multipurpose indoor stadium with all the necessary facilities furnished above. Scientific training is necessary for the improvement of performance that can only be possible under ideal infrastructure. Multipurpose indoor stadium will provide a effective platform for both the trainer and students such an environment.

Expected Outcome

Students in Wayanad district will get an ample opportunity to nurture their talents. We will be able to train students in various games so as to help them achieve national and international recognitions.

2. AQUATICS COMPLEX

General Requirements of the Aquatic Complex

Items	Details (approximate)
Administrative block	**1000 sqft**
Swimming pool area(50*20*10 mtrs)	**18000 SQFT**
Pavilion	**3000 SQ FT**
Fitness center	**1500 sqft**
Parking facilities (for 15 cars)	**2500 SQFT**
Reception Area and Security Room	**1500 SQFT**
Yoga and meditation room	**500 sqft**
Wash room and dress changing room	**1000 sqft**
Physiotherapy cum clinic	**500 sqft**
Total area	29500 sqft
EV Charging Port at Parking Area (2 nos)	**Rs 50,0000**
Land development and landscaping	**Rs 250,00,00 Approx**
CCTV	**Rs 1,00,000**
Computer and Printer	**Rs 1,00,000**
Compound Wall and Gate	**Rs 10,00,000**
Water source	**Rs 5,00,000**
Water purification fecility	**Rs 10,00,000**
TOTAL (A)	Rs 52,00,000

Requirements regarding furnishing, equipment and facilities

Item	Units	Est. Cost (approximate)
Office Table	**4**	**36000 / item = Rs 144,000**
Office chair	**4**	**8500/ item = Rs 34,000**
Book Shelf and Storage space	**4**	**6000/ item = Rs 24,000**
Visitors chair	**10**	**8500/item = Rs 85,000**
Table	**10**	**25000/item = Rs 2,50,000**
Chairs	**20**	**3500/item = Rs 70,000**
Six Seater Sectional Sofa	**1**	**35000/item =Rs 35,000**
TV Cabinet	**1**	**25000/item = Rs 25,000**
43 Inch TV set	**1**	**35000/item = Rs 35,000**
Dining Table Set with Six Chairs	**1**	**45000/item = Rs 45,000**
King Size Bed	**1**	**12000/item = Rs 12,000**
TOTAL INTERIOR(B)		**Approx Rs 7,59,000**
Fitness center equipment		**Rs 7,00,000**
Sound and Music system		**Rs 1,00,000**
Bathroom Fittings		**Rs 1,50,000**
Flood light		**Rs 3,00,000**
Electric Works		**Rs 5,00,000**
Plumbing Works		**Rs 5,00,000**
TOTAL (C)		**Rs 22,50,000**

TOTAL (D) Superstructure complete	**@4500/sqft*29500**	**Rs 13,27,50,000/- Approximate**
TOTAL (A+B+C+D)		APPROX Rs 140959000/-

Justifications

Our college is located in Wayanad district which is one of the backward districts in Kerala in terms infrastructural development. There are plenty of students in Wayanad district whose are interested in aquatic events. Some of them are gifted with a natural capacity for and talent for such events. Unfortunately, as of now, there is not even a single centre in the district to cater to their needs. Due to the lack of facilities in the district students have to rely on facilities available in faraway places. An aquatic centre will help us tap the potentials of such students.

Expected Outcome

Students in Wayanad district will get ample opportunity to nurture their talents. We will be able to train students in various aquatic events so as to help them achieve national and international recognitions.

3. BASKETBALL COURT

Requirements	Amount
Water leveling the sight with necessary fillings	**60,000**
Concreting and plastering (with necessary slope)	**550,000**
Expansion joint work	**8,000**
Measurement court marking and painting {as per international rules}	**65,000**
Basketball movable post { fiber board 18 mm thickness [as per international rule]}	**200,000**

Total amount	**883,000**

Specification

Court area : 32m x19m

Concreting : 1:1.5:3[PCC concreting m sand + metal + cement (ISI marked)]

Court marking : New model

Type of paint : Sandex mat

Duration of work : 40 days

Blocks : 20 above

Thickness of concreting : Approximate 10 cm

Justification

Basketball is one of the world top five team games, considering the number of people playing the sport both recreationally and in structured mainstream competitions. According to the Federation of International Basketball Associations (FIBA), at least 450 million people play the sport around the world. It is also one of the oldest team games to regularly feature in the Olympics. The game, which is recognized by the Indian Olympic Association and the State Sports Council, also features in almost all mega sporting events like the Asian Games, Commonwealth Games, South Asia Games and National Games. Apart from this, as a recreational sport, the game is ideal for improving mobility and providing healthy cardiac exercise. As a result, Basketball courts have become a standard in-house sporting facility at academic institutions across the globe.

Expected Outcome

The facility is expected to be used for competitions including the university inter collegiate champions and various other district and state-level competitions. Apart from being a regular training facility for the college basketball teams, it would also be a recreational facility for the students. The facility will create a renewed interest in the sport in the region and thereby producing sportspersons in the field who can make the state and nation proud on the national and international stage.

4. FOOTBALL TURF

SL No	Description	Rate	Quantity	Amount
01	**BASEMENT- WORK – WITH MATERIAL & LABOUR CHARGES AREA DETAILS** **(36M X 27M =Total area 10450 Sq.Ft)** **Detail – Excavation, compaction and achieving clearance of waste material, Followed by construction of the layered Gravel/Stone base not less than 250 mm thick using varied size of jelly stone 40mm, 20mm and 6mm finishing with proper compaction using roller for 40mm and 20mm layer. And protected with brick kerb wall in 4 sides with proper depth and side drainage with brick work and bottom with PCC to collect field water with proper slope and finished with wall plastering inside of drainage. All work as per FIFA QUALITTY PRO Standards**	**120/ Sq.Ft**	**10450. Sq Ft**	**12,54000.00**
02	**INFRASTRUCTURE.** **Fabrication of football turf with Arc welding including Netting all four side** **FENCING: Height – 10M** **Appollo, Essar or Kalinga (bhushan) steel material will be used for all steel work** **All material will be coated with epoxy paints** **Column pipe -4" 16 gauge thick Gp round pipe** **Top crown 1¼ x1-1 6Gauge thick square pipe**			

	Centre beam – 1½“ x 1“ – 16 gauge Rectangle tubes **Bottom beam – 1½ “x 1” – 16 gauge rectangle tubes** **Two number goal Pos twith3 inch pipe** **Scope of Work – Netting all four sides 25F Height** **Providing Garware Net Black 5mm x 5mm Gala 2.5mm Thickness** **Fixing Garware Net, with 7Ft. poll Padding all** **Vertical & Bottom Horizontal Pipes.** **Upper Green Shade nylon nets covering LIGHTING: With Imported heavy duty LED panels with required lumens and all include wiring, seating box, switches (if required) and as wiring finishes up to top of each pole as per FIFA STANDARDS.** **Flood Lights 150 watts** **With 2 year warranty (26 Nos Incuded) Note: Lights will be supplied installation & cabling**	**95/Sq.Ft**	**10450.Sq.Ft**	**992720.00**
03	**TURF : Supply and installation of 55mm FIFA quality Turf imported from FIFA quality manufactures with minimum 5 years warranty with proper infill (Quarts Silica sand as 2.5kg/Sq.Ft and Grumbed Rubber granules as 600gm/ Sq.Ft) and standards as per FIFA.18000Dtex,** **Density: 10172t/Sq.M,** **Gauge: 5/8 inch,** **Stitches: 180s/m**		**10450.**	

	And all filaments have specially designed curve structure, all work include supply, laying, infilling and line marking with supply of material and labour. **With warranty 5 years.** **Scope of work: 50mm Artificial Grass (FIFA Approved) Brand FIFA STANDARDS.** **The rate including line marking & football post** **Technical Specifications: Detex – 18000,** **Pile height – 50mm Grass** **Providing and applying 55mm Grass Football. FIFA STANDARD BRANDS** **Inclusive of Silica sand & Rubber Granules,** **Colour : Dual Tone Light & Dark Green** **Colour Light Green 2M X Dark Green 2M** **Per Roll Dimension : 4M X 30 M** **Ratio** **Silica Sand – 2.5kg Per Sqft,** **Rubber Granules – 600 Gm Per Sqft** **Warranty -5 years - 01 Year AMC FREE**	**170/Sq. Ft**	**Sq.Ft**	**17,76500.00**
GRAND TOTAL				40,23,220.00

Justification

Being a global sport and considering the popularity of the game in the region, football turf is

an essential facility for the college. The facility can be used for training purposes and for regional competitions.

Expected Outcome

The facility is expected host various district and university level training programmes. Such a facility at the public sector will be the first in the district, where is game is extremely popular and hence is expected to become a nurturing ground for future footballers who make the state and the nation proud.

5. SYNTHETIC TRACK AND PAVALION

(Olympic size 400mts track)

Sl. No	Description	Rate	Quantity	Amount (Rs)
1.	**BASEMENT PREPARATION WITH ASPAHLT& EDGEWALL AND DRAINAGE** • **Earth work 4 to 5'' inch excavation, leveling and compaction with 8-10 road rollers.** **• If there is any filling in ground it's from client side.** **• 100mm thickness in 1 layer of (WMM) wet mix macadam Curing compaction with 8-10- tone road roller.** **• Track coat with bitumen emission using sprayer on prepared surface** **• 40mm lose thickness 20mm stone size bitumen heat mixing macadam using bitumen (60/70) grade**	**450/ Sqft**	**44000 sqft**	**1,98,00,000**

	• 20mm lose thickness 6mm chips bitumen concrete with man power using both coarse and fine aggregate and 8-10 tone road roller compactions. **• Seal cot with heat mixing Damber without thickness. Compaction with 8-10 tone road rollers.** **• Edge wall excavation, leveling ,2" inch PCC bed, 12" inch height outer side brick wall & (plastering), inner side 9'' brick wall**			
2.	**EPDM FLOORING 15MM** **EPDM RUBBER FLOORING Thickness: 15MM (9mm SBR+ 6mm Color** **EPDM System: sandwich system Polyurethane is a high performance athletic surface system. It is a water impermeable system where polyurethane wear coat is Mixed with EPDM granules installed on base layer of SBR granules mixed with polyurethane binder.** **Standard and Ratio: Wet-pour Insitu system of our EPDM Flooring will have 9mm SBR base + 6m EPDM top color layer mix with Polyurethane binder where ratio of PU binder is 14% and 18% in SBR & EPDM. Polymer content in the EPDM will be 22% with**	**520/ sqft**	**44,000 sqft**	**2,28,80,000**

	tensile strength >4.0,			
3.	**MARKING WITH PU**			**1,50,000**
4.	**PAVILION CONSTRUCTION –both side RCC framed structure has been adopted up to seating level with brick masonry infill walls. The canopy on the seating area is designed in pre-engineered steel structure which has been introduced first time in such buildings in the state. This structure has an edge over the conventional structures as it proves to be more precise, hassle free, economical and less time consuming. The structural components like pillars, girders, purlins etc.**			**2,20,00,000**
5.	**CONSRTUCTION OF ROOMS & TOILET** **OPEN AREA FOR SHOWER+WAS BASIN+4** **NO. LATRINE+DRESSING ROOM** **All rooms and facilities will be provided with full furnished** **(Construction, roofing, plastering, painting, plumbing, electrification, flooring).**			**25,00,000**
Total				**6,73,30,000**

Justification

Athletics is one sport that occupies a significant importance at educational institutions all

over the world. Apart from being the most important Olympic sports, in the modern world athletics plays a significant part in providing routine physical exercise.

Expected Outcome

The facility is expected host various district, University, state and even national level athletics championships. Wayanad is a district with immense athletic potential, but have been trailing behind only because of proper training facilities. The Olympic standard track will be a turn point in the history of track and field sports of the district and state.

GENERAL AMENITIES

1. CANTEEN COMPLEX

Background

Our College has over 900 students and 50 staff members. Presently, our canteen is running in a temporary building. The capacity of the dining hall is completely inadequate. The condition of the kitchen is also not up to mark. We do need better facilities for refreshments at an affordable price since NMSM Govt. College is located at a distance from the town. No alternative facilities are available in the vicinity.

Hence, we need a permanent canteen building with a dining hall that can serve 60-80 persons and a fully furnished kitchen with all utensils including Grinder, Refrigerator, Stoves, Preparing vessels, Serving bowls and plates etc. The ground floor of the proposed complex will house the canteen along with the cooperative store.

The first floor of this building can be used as a centre for recreation of staff members and for constructing Guest and VIP rooms. Our college is located in the outskirts of the city. Facility to provide stay for the visitors to our college is presently unavailable. So, the first floor of the canteen building can be used for constructing Guest/VIP Rooms. The space can also be utilised to build a staff recreation centre.

Since our college doesn't have enough space for parking vehicles the sideways of this structure can be used for that purpose also.

The second floor of the building will provide rooms for various student amenities including offices for NSS and NCC.

Requirements for the ground floor

1. Canteen

• Dining Hall	:	60 x 30=	1800 Sq.Ft.
• Store for canteen	:	12 x 10=	120 Sq.Ft.
• Kitchen	:	12 x 20=	240 Sq.Ft.
• Rest room with toilet	:	10 x 10=	100 Sq.Ft.
• Toilets 2 (1 attached,1common)	:	(5 x 5=25 F) x 2 =	50 Sq.Ft.
• Work area	:	10 x 10=	100 Sq.Ft.
• Stair case/ Elevator	:		110 Sq.Ft.

2. Co-operative Store

• Floor area	:	20 x 20	400 Sq.Ft.

Total built up area : ***2920 Sq.Ft.***

Requirements for the first floor

3. Guest Room with Staff Recreation

- Space for staff recreation : 60 x 30= 1800 Sq.Ft.
- VIP/Guest room with attached toilet-4: (15 x 15) x 4 = 900 Sq.Ft.
- Stair case/ Elevator : 110 Sq.Ft.

Total ***2810 Sq.Ft.***

Requirements for the Second floor

- Student amenity center (NSS, NCC & other clubs) : 2700 Sq.Ft.
- Stair case/ Elevator : 110 Sq.Ft.

Total *2810 Sq.Ft.*

Total built up area of canteen building 8540 Sq.Ft.

Details of Equipment required

Kitchenware & equipment

Grinder, Fridge, Mixer etc. : 5,00,000/- (Five Lakhs Only)

Tables 20 (6000 x 20) : 1,20,000/- (One Lakh Twenty Thousand Only)

Chairs 80 (2000 x 80) : 1,60,000/-(One Lakh Sixty Thousand Only)

Furniture for Guest Rooms

(Bed, Study table, Chairs etc.) : 3,00,000/-(Three Lakhs Only)

Justification

The facilities in the present canteen is completely inadequate as it is running in a makeshift building which cannot provide sufficient seating and dining space. So a good canteen is a must as a source of refreshment and as a place for relaxation.

Guest Rooms at the College campus will remove the difficulty and huge expenses incurred to providing lodging for the Guests and VIPs who visit our college for administration and academic purposes. The staff recreation hall can be used as a meeting space for the staff and as a ready to use seminar hall.

The third floor of the complex will provide space for student amenities. The facility would satisfy the long standing demand for proper and adequate offices of the NSS and NCC.

Outcome:

Often college canteens are a place for free discussion and exchange of ideas. Good food at a pocket friendly price and a clean and hygienic canteen should be our aim.

Since our college is located in a hilly area, we should provide stay facilities to the visitors. Fully furnished Guest Rooms and a staff recreation hall are really needed.

2. DAY CARE CENTRE

NMSM Govt. College Kalpetta is the only Government College in the Wayanad district under the University of Calicut. The main purpose of setting up the day care centre is to give the teaching/non-teaching staff and students a feeling of contentment while performing their duties and help them concentrate in their works.

- Proposed Intake of children : 30 Nos
- Age Limit : Children between 6 months to 3 years
- Human Resources : 1 Teacher plus 3 assistants
- Time : 9am to 5.30 Pm

Requirement of buildings / rooms

Sl.No	Item / Work	Specifications / Measurements	Numbers	Total Numbers / Measurements	Expected Cost
1	**Large Hall (fully Furnished)**	**1000 sqft**	**1**	**1000 sq ft**	**45 Lakhs**
2	**Dining Area(adjacent to Large hall)**	**600 sqft**	**1**	**600 sqft**	**27 Lakhs**
3	**Office Room**	**400 sqft**	**1**	**400 sqft**	**18 Lakhs**
4	**Toilets and Wash**	**600 sqft**	**1**	**600 sqft**	**27 Lakhs**

	room space for kids and staffs				
5	Front area including play area, interlock paving and gate and child sized hand rails	2000 sqft	-	2000 sqft	90 Lakhs
6	Kitchen Space with Shelves and cupboards	500 sq ft	1	500	22.5 lakhs
7	Laundry Area with Truss Roofing	400 sq ft	1	400 sqft	18 Lakhs
				5500 sq ft	2.47 Cr
7	Surveillance Camera Unit for ensuring proper supervision		2 units		1.5 lakhs
8	Water Purifier Installation		1 unit		50000/-
9	First Aid Facilities		1 unit		25000/-
10	Doors with finger jam preventers		3 units		1.5 lakhs
11	Baby Cots(for infants)		15 units		2 lakhs
12	Cots and beds for toddlers and kids		10 units		5 lakhs
13	Multi-Child Daycare Strollers		4 units		50000/-

14	**Day care storage unit- Large sized**		**2 units**		**1 lakh**
15	**Day care storage unit- medium Sized**		**3 units**		**1 lakh**
16	**Child care feeding chairs**		**20 units**		**1.5 lakhs**
17	**Activity/ Play area equipment/ Furniture and Toys- Puzzles, Building toys, Creative toys, Books etc.**		**-**		**10 lakhs**
18	**Office chair and table, Cabinet etc.**		**1 unit**		**3 lakhs**
19	**Desktop unit for office**		**1**		**50000/**
20	**wardrobe**		**2 unit**		**75000/-**
21	**Washing machine**		**1**		**50000/-**
22	**Cleaning utensils such as mops, brooms, feather dusters, rags, pails, empty containers of cleaning products such as laundry detergent and dish soap**		**2 units**		**25000/-**

	Total	**30 lakhs**

Expected Outcome

Provide a safe and secure environment with quality caregivers, so that parents have the peace of mind of knowing their children are safe while they work/study. Day care centre will provide a sense of security to the parents. The learning environment should provide a rich assortment of materials and equipment for children to develop socially, cognitively and physically.

2. STAFF APARTMENT

(Proposal for a three storey building having four apartments on each floor having a total area of 15,000 sqft approximately)

Leading institutions across the world place great value in the residential living of faulty members. This would aid in the development of a strong bond between the faculty members and the institution. Hence, it is considered a necessary component of quality education. Currently, the institution lacks residential facilities for its staff members.

- Existing Residential Facilities for Staff
- Quarters for Principal (to be commissioned)
- Sanctioned Residential Facilities for Staff
- Four individual apartments for staff and faculty members.

General Requirements of the Apartment Complex

Sl.No.	Items	Details (approximate)
1	**Plinth Area (including reception)**	**6500 SQFT**
2	**Organized Green space and landscaped area**	**5000 SQ FT**
3	**Access Road**	**6M TO 12 M WIDTH**

4	**Parking facilities (for 15 cars)**	**2500 SQFT**
5	**Reception Area and Security Room**	**1500 SQFT**
6	**EV Charging Port at Parking Area (5 nos)**	**Rs12,50,000**
7	**Land development and landscaping**	**Rs 1,00,00,000 Approx**
8	**CCTV**	**Rs 1,00,000**
9	**Elevator**	**Rs 5,00,000**
10	**Compound Wall and Gate**	**Rs 12,00,000**
11	**Borewell**	**Rs 1,25,000**
12	**Water Treatment and Water Storage**	**Rs 2,00,000**
13	**Sewage Treatment and Disposal**	**Rs 2,50,000**
14	**Waste Disposal Unit**	**Rs 5,00,000**
15	**Rain Water Harvesting**	**Rs 5,00,000**
TOTAL (A)	Rs 1,46,25,000	

Details about Individual Apartments

Sl.No	Items	Details (Approximate)
1	**Living Room**	**150 sqft**
2	**Dining Room**	**150 sqft**
4	**Kitchen**	**140 sqft**
5	**Master Bedroom**	**165 sqft**

6	**Bed Room**	**140 sqft**
7	**Office Room**	**100 sqft**
8	**Storeroom**	**40 sqft**
9	**Balcony/Sitout**	**40 sqft**
10	**Toilet (Attached) 2nos**	**40 * 2 = 80 sqft**
	Total area per apartment	1005 SQFT

Requirements regarding furnishing, equipment and facilities

SL No	Item	Units	Est. Cost (approximate)
1	**Office Table**	**12**	36000 / item = Rs 4,32,000
2	**Office chair**	**12**	8500/ item = Rs 1,02,000
3	**Book Shelf and Storage space**	**12**	6000/ item = Rs 72,000
4	**Visitors chair**	**24**	8500/item = Rs 2,04,000
5	**Table**	**24**	25000/item = Rs 6,00,000
6	**Chairs**	**24**	3500/item = Rs 84,000
7	**Six Seater Sectional Sofa**	**12**	35000/item =Rs 4,20,000
8	**TV Cabinet**	**12**	25000/item = Rs 3,00,000
9	**43 Inch TV set**	**12**	35000/item = Rs 4,20,000
10	**Dining Table Set with Six Chairs**	**12**	45000/item = Rs 5,40,000
11	**King Size Bed**	**24**	12000/item = Rs 2,88,000
12	**Air Conditioner 1.5 Ton for Master Bedroom**	**12**	40000/item = Rs 4,80,000
13	**Air Conditioner 1 Ton for**	**12**	30000/item =Rs 3,60,000

	Bedrooms		
14	**Modular Kitchen**	**12**	360000/kitchen = Rs 43,20,000
15	**TOTAL INTERIOR(B)**		Approx Rs 86,22,000
1	**Flooring (Vitrified Tiles)**	**90/sqft**	Approx Rs 13,00,000
2	**Bathroom Tiling**	**50/sqft**	Approx Rs 2,00,000
3	**Bathroom Fittings**		Rs 1,10,000/apartment
4	**Electrical Fittings**		Rs 1,25,000/apartment
5	**Electric Works**		Rs 45,00,000
6	**Plumbing Works**		Rs 30,00,000
7	**TOTAL (C) Superstructure complete**	**@4500/ sqft**	Rs 6,75,00,000/- Approximate
	TOTAL (A+B+C)		Rs 9,07,47,000 APPROX

Justifications

Providing proper residential facilities occupy paramount importance in the welfare of the staff members and it will in turn nourish academic excellence. Ensuring better living standards for the staff will have a positive impact on the quality of the institution. Being a government college under the Collegiate Education Department, transfer among various government colleges is frequent for both teaching and non-teaching staff. The transfer process of the faculty members is conducted state-wide. Hence, faculty and staff members from various parts of the state are currently employed at the college. Around forty percentage of the faculty members of the college are stationed outside of their 'home station'. Finding proper and affordable housing facilities in Vellaramkunnu and nearby areas is often a challenge for them. Hence, it is important for the college to have residential facilities for its staff members.

Expected Outcome

The apartment facility for the staff members is expected to reflect positively in the academic culture of the institution. The facility will ensure the welfare of the staff members and their

families. Also, the faculty members will develop a stronger bond with the campus. All these aspects are expected to be driving forces in the institution's pursuit for excellence.

3. OPEN AIR AUDITORIUM

General requirements of the Open Air Auditorium

Sl.No	Item / Work	Specifications/ Measurements	Total Cost
1	**Stage**	**600 sqft**	
2	**Gallery**	**1500 sqft**	**200,0000**

Justifications

There are plenty of students in our college having tremendous potential talent for various games. But scarcity of facilities is a big barrier to improve their performance. To give them adequate exposure we need an Open Air Auditorium.

Expected Outcome

Students in Wayanad district will get an ample opportunity to nurture their talents. We will be able to train students in various games so as to help them achieve national and international recognitions.

PROFESSIONAL DEVELOPMENT PROGRAMMES FOR FACULTY MEMBERS

INTRODUCTION

Professional development of the faculty members is an effort to explore, derive, develop, assure and make available opportunities for the use of the professional talents and skills of teachers in their respective fields and to ensure that such opportunities are available equitably to all teachers with due regard to their professional abilities and attributes.

OBJECTIVE

The professional development of teachers beyond their initial training can serve several objectives including:

• to update individuals' knowledge of a subject in light of recent advances in the area;

• to update individuals' skills, attitudes, and approaches in light of the development of new teaching techniques and objectives, new circumstances, and new educational research;

• to enable individuals to apply changes made to curricula or other aspects of teaching practice;

• to develop and apply new strategies concerning the curriculum and other aspects of teaching practice;

• to exchange information and expertise among teachers and others, e.g. academics, industrialists; and

• to help weaker teachers become more effective.

PROFESSIONAL DEVELOPMENT PROGRAMME

Teacher professional development is to explore and exploit all available and potential opportunities whereby newer avenues for professional development of teachers. It includes any type of continuing education effort for educators. Its one-way teachers can improve their skills and, in turn, boost student outcomes and it is done through a formal and informal arrangement.

I - PROFESSIONAL DEVELOPMENT PROGRAMMES - INDIVIDUAL LEVEL.

1. Taking World-Class Courses-

Teachers will decide to take in each year one online business/commerce-related course ((massive open online course (MOOC)) to build skills and advance in careers from top universities and institutions around the world through edX, SWAYAM, etc.2. Honing skills through in-depth studies.

2. Independent Research or Investigation-

All teachers in the department will complete their Ph.D. within the next five years

3. Peer Learning Initiatives or Discussion with a Colleague in the Staff Room-

Promote group teaching and subject sharing. A round-table conference is a get-together of peers to exchange thoughts and opinions on a certain topic. There are a limited number of participants who sit at a round table so that each one can face all the others. Promote micro-teaching and subject analysis

II - PROFESSIONAL DEVELOPMENT PROGRAMMES-DEPARTMENT LEVEL

4. Networking with Teachers across the Globe - Establishing a professional learning network for teachers is especially important, as it helps teachers to expand their influence beyond the classroom, share curricula, and acquire new teaching strategies. Educators network in person at annual teaching conferences or build digital partnerships online using both general networking sites and education-specific social media tools.

5. Training-

1. Teachers will attend Orientation and refresher training provided by various universities and institutions.

2. Practical training will be given to teachers relating to online business, e-commerce operation, online trading in the stock exchange, and online and offline operations of financial services. For arranging faculties and collaboration with financial service providers require annual expenses of Rs.10000/-

6. Conference - A conference is generally understood as a meeting of several people to discuss a particular topic. At a conference, innovative ideas are thrown about and new information is exchanged among experts. There are various types of conferences: Seminars, workshops, webinars, symposiums etc.

III -PROFESSIONAL DEVELOPMENT PROGRAMS-COLLEGE LEVEL

7. ICT Skill Training (Information Communication Technology)

At the college level ICT training should be given for improving the skill of presentation, using interactive board, exploring the opportunities in the smart classroom, and overall helping to develop a learning management system (LMS).

8. Develop A Learning Management System (LMS)- One of the purposes of a learning management system (LMS)'s is to empower IQAC with the training and development of teachers, so they can continue to develop professional skills and achieve the goals of the College.

9. Faculty Development and Welfare

a. Sponsorship for development programs, higher education in institutes of excellence under QIP, participation in national and international conferences

b. Participative management with hierarchical support systems

c. Decentralization of autonomy to departments to result in efficient and effective academic and administrative functioning.

d. Appropriate functioning of grievances redressal mechanism

e. Ideal teacher award to one faculty every year

f. Department has provided ICT-based teaching through LCD projector and Internet Facility.

g. Each department will have a separate cabin which is helpful for the faculty members to improve communications with staff and students.

DEPARTMENT OF COMMERCE

(Proposed professional skill development programmes for five years)

SEMINARS

1. Three-day Virtual National Conference was organized by the Dept. of Commerce and hosted by IIM Kozhikode.
2. National Seminar on Regulatory developments in business. Estimate expense for the seminar Rs.10000/-
3. National seminar on Development in Management reporting -Resource person- Unnikrishnan V (ACMA), Deputy Manager (Corporate Audit Services), HLL Lifecare Ltd. (A Govt. Of India Enterprises) Corporate Office, Poojapura, Thiruvananthapuram-695012. Estimate expense for the seminar Rs.10000/-

LIVE WEBINARS:

4. Jointly with Banking, Financial Services & Insurance institutions - on “Opportunities and challenges in financial services" on February 2022.Estimate expense for the Webinar is Rs.5000.
5. In association with Gulati Institute of Finance and Taxation (GIFT), Thiruvananthapuram, Kerala on March 2022. Estimate expense for the Webinar is Rs.5000
6. Live Webinar on “Corporate Accounting” 2022. Estimate expense for the Webinar isRs.5000
7. Webinar on Corporate governance. Estimate expense for the Webinar is Rs.5000
8. Webinar on the Capital market and investor protection. Estimate expense For the Webinar Rs.5000

WORKSHOPS

9. In each year during the next five years, a workshop on "Quantitative techniques" will be conducted. Includes training on using various software for research and data analysis. Estimated expenses Rs. 30000/-

SYMPOSIUM

VISIT OF FACULTY TO INDUSTRIES

10. Yearly Two industrial visits (every semester). Industrial visits are arranged based on business activities. It includes both Industrial and Commercial organizations. The importance is given to Production, marketing, financing, and human resource. Estimate cost for each industrial visit varies from Rs.5000/- to 10000/-

DEPARTMENT OF ECONOMICS

(Proposed professional skill development programmes for five years)

I Year

1. Training for research writing and paper publication in international journals.

2. Access to premier international and national databases (eg. Emarald Insight, NSSO,) and training for extraction and use of such data base

II Year

3. Access to International Journal Data base such as Scopus, Web of science etc and training to use them.

4. Training to use advanced Software of data analysis (eg: SPSS, R, Mat Lab,)

5. Training for minor project preparation and execution.

6. Help to get collaboration to international agencies to carry out research works

III Year

7. Supports to visit and interact with faculties in premier institutions in India and abroad

8. Faculty exchange programme within India and abroad

9. Supports and opportunities to students to carry out minor projects under eminent faculties of primer institution.

IV Year

10. Opportunities to interact with international faculties

11. Opportunities to work in collaboration with international institutions and financial support to carry out short term projects in such institutions.

12. Opportunities and financial support to present research papers in international research conferences.

V Year

13. Training for minor project preparation and execution.

14. Support to financial resources to carry out major projects independently

DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM

(Proposed professional skill development programmes for five years)

WORKSHOPS:

1. Academic Writing
2. Photography
3. Videography
4. Pedagogy
5. Print Production and Design

WEEK-LONG SHORT TERM COURSES:

1. Statistical Technique-Tools, Coding, Soft wares
2. Mass Media Research
3. Data Journalism- Tools and Techniques

EXPERT LECTURE SERIES:

1. Digital Media Literacy
2. Development Journalism
3. Media, Culture and Society
4. Gender and Media
5. Media Education in India

DEPARTMENT OF HISTORY

(Proposed professional skill development programmes for five years)

- Provisions for field visit to important local historic sites for students and teachers.
- Collaboration of faculties at institutional levels to facilitate co-operation and exchange of ideas.
- National seminars and annual conferences with interdisciplinary cooperation.

• Tour at national level visiting important archaeological and excavation sites like Indus Valley Civilization.

DEPARTMENT OF COMPUTER SCIENCE

(Proposed professional skill development programmes for five years)

1. Three days hands on workshop on Artificial Intelligence and Machine Learning.
2. Three days hands on workshop on Cyber Security.
3. Three days hands on workshop on Image Processing using MATLAB/Scilab
4. Three days hands on workshop on Data Science.
5. Three days hands on workshop on Natural Language Processing.
6. Research collaborations with internationally acclaimed institutes like Berkeley, Stanford, MIT in ML, IOT, Data Science
7. Undertaking research projects funded by DST and MHRD.

DEPARTMENT OF CHEMISTRY

(Proposed professional skill development programmes for five years)

WEBINARS /SEMINARS

1. Recent advances in chemical science
2. Interdisciplinary, multidisciplinary topics

WORKSHOPS

1. Computational chemistry
2. Advances in analytical instrumentation - Analytical instruments like gas chromatography, High performance liquid chromatography, uv -vis spectrophotometers, SEM,TEM, AFM, Thermal gravimetric analyser, Atomic absorption spectrometer, Tensiometer, Fourier transform infra-red spectrophotometer, X ray diffraction, etc.

PAPER PUBLICATIONS IN SCIENCE JOURNALS

Focussing on emerging areas like super capacitors and batteries, Green chemistry, supramolecular chemistry, Nano chemistry, Bio polymers, Liquid crystals (Opto electronics)etc.

INDUSTRIAL VISITS

1. Visit to industries like Petrochemical, synthetic rubber, speciality chemicals, dye, pharmaceutical, polymer etc.

2. Visit to research institutions including BARC, DRDO, IISC, ISRO,IISER, IITs, CSIR NIIST etc.

DEPARTMENT OF ENGLISH

(Proposed professional skill development programmes for five years)

WORKSHOP:

1. Academic Writing

SEMINARS:

1. New Trends in Literary Criticism
2. New Trends in Literature
3. The Place of Literature in Interdisciplinary Studies
4. Language and Power: A Post-Colonial Turn
5. Conference on Philosophy and Literature
6. Training in the Effective Use of Language Lab

FILM FESTIVAL

7. International Film Festival with Open Forum and Sessions on Film Appreciation.