


**പതിനാലാം കേരള നിയമസഭ**  
**പത്താം സമ്മേളനം**  
**നക്ഷത്ര ചിഹ്നമിടാത്ത ചോദ്യം നം. 1927**  
**08.03.2018 ലെ മറുപടിക്ക്**

**വൈപ്പിൻ ഗവ. ആർട്സ് ആന്റ് സയൻസ് കോളേജ് കെട്ടിടം**  
**നിർമ്മിക്കുന്നതിന് ഭരണാനുമതി**

<p style="text-align: center;"><b>ചോദ്യം</b> <b>ശ്രീ. എസ്. ശർമ്മ</b></p>	<p style="text-align: center;"><b>ഉത്തരം</b> <b>ഡോ. ടി. എം. തോമസ് ഐസക്</b> <b>(ധനകാര്യവും കയറും വകുപ്പ് മന്ത്രി)</b></p>
<p>എം.എൽ.എ. ആസ്തി വികസന സ്കീമിന്മേൽപ്പെടുത്തി വൈപ്പിൻ ഗവ. ആർട്സ് ആന്റ് സയൻസ് കോളേജിന്റെ കെട്ടിടം നിർമ്മിക്കുന്നതിന് ഭരണാനുമതി നൽകിയിട്ടുണ്ടോയെന്ന് വ്യക്തമാക്കാമോ; എങ്കിൽ ഡി.പി.ആർ.ന്റെ പകർപ്പ് ലഭ്യമാക്കാമോ?</p>	<p>25.03.2017-ലെ സ.ഉ.(സാധാ) നം. 557/2017/ഉ.വി.വ പ്രകാരം വൈപ്പിൻ നിയോജകമണ്ഡലത്തിലെ എളങ്കുന്നപ്പുഴ ഗവ. ആർട്സ് ആന്റ് സയൻസ് കോളേജിന്റെ കെട്ടിട നിർമ്മാണത്തിനായി നിയോജകമണ്ഡല ആസ്തി വികസന ഫണ്ട് 2016-17-ൽ നിന്നും 200 ലക്ഷം രൂപ വിനിയോഗിക്കുന്നതിന് ഭരണാനുമതി പുറപ്പെടുവിച്ചിട്ടുണ്ട്. ഡി.പി.ആർ ന്റെ പകർപ്പ് അനുബന്ധമായി നൽകുന്നു.</p>

  
**സെക്ഷൻ ഓഫീസർ**

Receipt No : 1145205/2017/H EDN

PRICE

EST NO:2016/9226

Name of work : Construction of a Building for Govt Arts And Science College ,Elankunnapuzha phase 1

GENERAL DETAILS

- |   |   |                         |
|---|---|-------------------------|
| 1. Nature of Fund                           | : |                         |
| 2. Financial Year                           | : | 2016-2017               |
| 3. Parliamentary Constituency               | : | Ernakulam               |
| 4. Assembly Constituency                    | : | VYPEN                   |
| 5. Work Class                               | : | Original Works          |
| 6. Cost Index Based on                      | : | Ernakulam               |
| 7. Head of Account                          | : |                         |
| 8. Budget Volume/Part/ Page No/ Serial No   | : | .....                   |
| 9. Budget Provision                         | : |                         |
| 10. Asset No                                | : |                         |
| 11. Architectural Design No                 | : |                         |
| 12. Proposed Duration to Complete this Work | : | 1 Years 0 Months 0 Days |

**ASSISTANT ENGINEER**  
 PWD Special Buildings Section No: 1  
 Ernakulam, Edappally, Kochi-682 024

*[Signature]*  
 Assistant Executive Engineer  
 PWD Special Buildings Sub-Division  
 Ernakulam, Edappally-682 024

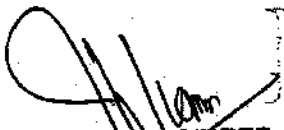
*[Signature]*  
**EXECUTIVE ENGINEER**  
 PWD BUILDINGS DIVISION  
 ERNAKULAM

*[Signature]*

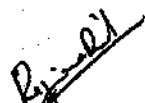
Name of work : Construction of a Building for Govt Arts And Science College ,Elankunnapuzha phase 1

ESTIMATE REPORT

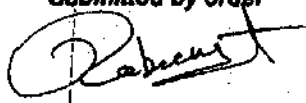
A New Arts and Science College is all set to function in Elankunnapuzha in Vypin LA constituency. The MLA of the constituency Sri. S. Sharma instructed Public Works department to prepare and submit an Architectural Plan and estimate for construction of the building for the proposed college. Accordingly a plan is prepared taking into consideration various amenities to be included and site conditions. The proposed building is a multi storied one with 3 floors ( G+2). But due to urgency of the project, MLA directed to submit an estimate for the phase-1of the project amounting 200 lakhs. Accordingly, two Class rooms, toilet for ladies and gents, Principal room, staff room, verandha, etc. in ground floor are proposed in the first phase. The total Plinth area of the building in phase-1 comes to 335m<sup>2</sup> . Pile foundation is provided based on Soil investigation studies conducted earlier in the nearby areas. The superstructure is designed as an RCC framed structure. Provision for vitrified tile flooring, glazed aluminum framed windows with MS grills, Cheru teakpanelled doors and door frames, solid block masonry walls, synthetic enamel and plastic emulsion painting, rainwater harvesting, sump tank ,overhead tank etc.and necessary sanitary arrangements have been made in the estimate. Provision for Electrical works are included in the estimate. The estimate is based on SOR 2014, CPWD data with a Cost Index of 44.76%. The total estimate amount including Service Tax (6%) comes to Rs. 200 lakhs.

  
ASSISTANT ENGINEER  
PWD Special Buildings Section  
Ernakulam, Kochi-682 024

  
Assistant Executive Engineer  
PWD Special Buildings Sub Division  
Ernakulam, Ernakulam-682 024

  
EXECUTIVE ENGINEER  
PWD BUILDINGS DIVISION  
ERNAKULAM

Sd/-  
J. RAVEENDRAN  
Chief Engineer  
P.W.D. Buildings  
Submitted by order

  
RABEENA A  
Executive Engineer, PTU  
O/o the Chief Engineer, Buildings  
Public Works Department  
Thiruvananthapuram

Receipt No : 1145205/2017/H EDN  
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EST NO:2016-2017/0

General Abstract

**Construction of a Building for Govt Arts And Science College ,Elankunnapuzha  
phase 1**

(Cost Index Applied for this estimate is 44.76%)

SI No	Heading Description	Amount
1	Building Proper	16419811.08
2	RAIN WATER HARVESTING,UNDERWATER SUMP,SEPTIC TANK AND COMPOUND WALL	1448994.38
3	ELECTRIFICATION	640000.00
4	SOIL INVESTIGATION & Unforseen items	358120.00
	Service Tax @	6.0%
	Service Tax Amount	1132075.53
	Total with Service Tax Amount	20000000.98
		<b>TOTAL Rs 20000000.98</b>
		<b>Rounded Total Rs 2,00,00,001</b>
		<b>Rupees Two Crore One Only</b>

(Cost Index Applied for this estimate is 44.76%)

ASSISTANT ENGINEER  
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Ernakulam, Edappally, Kochi-682 024

Assistant Executive Engineer  
PWD Special Buildings Sub Division  
Ernakulam, Edappally-682 024

EXECUTIVE ENGINEER  
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RABEENA A  
Executive Engineer, PIU  
O/o the Chief Engineer, Buildings  
Public Works Department  
Thiruvananthapuram

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Abstract Estimate

### Construction of a Building for Govt Arts And Science College ,Elankunnapuzha phase 1

(Cost Index Applied for this estimate is 44.76%)

1 Building Proper		
1	2.1.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed:All Kinds of soil
		Net Total Quantity 474.500 sqm
		Say 474.500 sqm @ Rs 73.02 / sqm <span style="float: right;">Rs 34647.99</span>
2	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.
		Net Total Quantity 474.500 sqm
		Say 474.500 sqm @ Rs 4.76 / sqm <span style="float: right;">Rs 2258.62</span>
3	20.2.5	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).600 mm dia piles
		Net Total Quantity 2100.000 metre
		Say 2100.000 metre @ Rs 3866.54 / metre <span style="float: right;">Rs 8119734.00</span>
4	20.6.1.2	Vertical load testing of piles in accordance with IS 2911( Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of engineer -In-Charge.Single pile upto 50 tonne capacityRoutine test
		Net Total Quantity 2.000 per test
		Say 2.000 per test @ Rs 1483.58 / per test <span style="float: right;">Rs 2967.16</span>
5	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
		Net Total Quantity 500.501 cum
		Say 500.501 cum @ Rs 225.25 / cum <span style="float: right;">Rs 112737.85</span>

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6	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)		
		Net Total Quantity	70.625 cum
		Say:70.625 cum @ Rs 6226.34 / cum	Rs 439735.26
7	5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level		
		Net Total Quantity	99.076 cum
		Say 99.076 cum @ Rs 9114.31 / cum	Rs 903009.38
8	5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level		
		Net Total Quantity	84.177 cum
		Say 84.177 cum @ Rs 10154.26 / cum	Rs 854755.14
9	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.		
		Net Total Quantity	335.000 cum
		Say 335.000 cum @ Rs 162.71 / cum	Rs 54507.85
10	5.9.1 Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete		
		Net Total Quantity	370.551 sqm
		Say 370.551 sqm @ Rs 284.38 / sqm	Rs 105377.29

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11	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform		
		Net Total Quantity	354.277 sqm
		Say 354.277 sqm @ Rs 581.43 / sqm	Rs 205987.28
12	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		
		Net Total Quantity	87.000 sqm
		Say 87.000 sqm @ Rs 736.18 / sqm	Rs 64047.66
13	5.9.19 Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges		
		Net Total Quantity	60.346 sqm
		Say 60.346 sqm @ Rs 712.73 / sqm	Rs 43010.40
14	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Linteis, beams, plinth beams, girders bressumers and cantilevers		
		Net Total Quantity	195.171 sqm
		Say 195.171 sqm @ Rs 480.82 / sqm	Rs 93842.12
15	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts		
		Net Total Quantity	159.900 sqm
		Say 159.900 sqm @ Rs 656.27 / sqm	Rs 104937.57
16	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		
		Net Total Quantity	23098.150 kilogram
		Say 23098.150 kilogram @ Rs 98.58 / kilogram	Rs 2277015.63
17	50.6.1.4 Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth with thickness 20cm and above in: CM 1:6 ( 1 cement : 6 coarse sand ) etc complete		
		Net Total Quantity	75.199 cum
		Say 75.199 cum @ Rs 5162.86 / cum	Rs 388241.91

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18	50.6.3.2 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size conforming 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.		
		Net Total Quantity	14.171 cum
		Say 14.171 cum @ Rs 6443.26 / cum	Rs 91307.44
19	5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 ( cement : 3 fine sand).		
		Net Total Quantity	734.100 sqm
		Say 734.100 sqm @ Rs 194.99 / sqm	Rs 143142.16
20	13.4.1 12-mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)		
		Net Total Quantity	1233.152 sqm
		Say 1233.152 sqm @ Rs 249.42 / sqm	Rs 307572.77
21	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)		
		Net Total Quantity	0.144 cum
		Say 0.144 cum @ Rs 6998.13 / cum	Rs 1007.73
22	9.53 Providing 40x5 mm flat-iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)		
		Net Total Quantity	160.000 each
		Say 160.000 each @ Rs 169.88 / each	Rs 27180.80
23	9.1.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).Second class teak wood		
		Net Total Quantity	0.419 cum
		Say 0.419 cum @ Rs 132450.98 / cum	Rs 55496.95
24	9.20.1 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws		



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		Net Total Quantity	18.901 sqm
		Say 18.901 sqm @ Rs 3773.1 / sqm	Rs 71315.36
25	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	
		Net Total Quantity	10.760 kg
		Say 10.760 kg @ Rs 169.22 / kg	Rs 1820.81
26	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width form 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	
		Net Total Quantity	226.785 no
		Say 226.785 no @ Rs 1510.72 / no	Rs 342608.64
27	9.117.1	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm \frac{1}{2}$ mm), with wall thickness 2.0mm ( $\pm \frac{1}{2}$ 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm ( $\pm \frac{1}{2}$ 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge	
		Net Total Quantity	40.602 metre
		Say 40.602 metre @ Rs 309.42 / metre	Rs 12563.07
28	9.118.1	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm \frac{1}{2}$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm \frac{1}{2}$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm \frac{1}{2}$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm \frac{1}{2}$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C. and bathroom door shutter).	
		Net Total Quantity	11.761 sqm
		Say 11.761 sqm @ Rs 3935.45 / sqm	Rs 46284.83

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29	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)		
		Net Total Quantity	226.785 kg
		Say 226.785 kg @ Rs 630.79 / kg	Rs 143053.71
30	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		
		Net Total Quantity	27.000 sqm
		Say 27.000 sqm @ Rs 1199.7 / sqm	Rs 32391.90
31	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.		
		Net Total Quantity	320.001 sqm
		Say 320.001 sqm @ Rs 2035.25 / sqm	Rs 651282.04
32	11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.		
		Net Total Quantity	15.001 sqm
		Say 15.001 sqm @ Rs 1309.28 / sqm	Rs 19640.51
33	11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
		Net Total Quantity	77.344 sqm
		Say 77.344 sqm @ Rs 1211.13 / sqm	Rs 93573.64
34	13.37.1 White washing with lime to give an even shade: New work (three or more coats)		
		Net Total Quantity	1459.685 sqm

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Say 1459.685 sqm @ Rs 23.45 / sqm		Rs 34229.61
35	13.80 Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	
Net Total Quantity		915.843 sqm
Say 915.843 sqm @ Rs 129.78 / sqm		Rs 118858.10
36	13.85.3 Applying priming coats with primer of approved brand and manufacture, having low VOC ( Volatile Organic Compound) content. With water thinnable cement primer on walls surface having VOC content less than 50 grams / litre	
Net Total Quantity		1459.685 sqm
Say 1459.685 sqm @ Rs 51.9 / sqm		Rs 75757.65
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	
Net Total Quantity		557.660 sqm
Say 557.660 sqm @ Rs 116.53 / sqm		Rs 64981.12
38	13.83.2 Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile including applying additional coats wherever required to achieve even shade and colour. Two coats	
Net Total Quantity		902.025 sqm
Say 902.025 sqm @ Rs 109.08 / sqm		Rs 98392.89
39	13.85.2 Applying priming coats with primer of approved brand and manufacture, having low VOC ( Volatile Organic Compound) content. With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	
Net Total Quantity		43.891 sqm
Say 43.891 sqm @ Rs 44.59 / sqm		Rs 1957.10
40	10.6.1 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS. 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover	
Net Total Quantity		9.750 sqm
Say 9.750 sqm @ Rs 3100.9 / sqm		Rs 30233.78

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41	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	
		Net Total Quantity	9.360 sqm
		Say 9.360 sqm @ Rs 7659.69 / sqm	Rs 71694.70
42	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of : i) I course of applying cement slurry @ 4.4 Kg/ sqm mixed with water proofing compound conforming to IS: 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. ii) II course of 20 mm cement plaster 1:3 ( 1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. iii) III course of applying blown or residual bitumen applied hot at 1.7 kg per sqm of area. iv) IV course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/ sqm.	
		Net Total Quantity	89.281 sqm
		Say 89.281 sqm @ Rs 756.95 / sqm	Rs 67581.25
43	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.)	
		Net Total Quantity	10.000 kg
		Say 10.000 kg @ Rs 896.64 / kg	Rs 8966.40
<b>3 RAIN WATER HARVESTING, UNDERWATER SUMP, SEPTIC TANK AND COMPOUND WALL</b>			
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	
		Net Total Quantity	107.091 cum
		Say 107.091 cum @ Rs 225.25 / cum	Rs 24122.25
2	2.7.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. Ordinary rock	

PRICE

		Net Total Quantity	116.505 cum
		Say 116.505 cum @ Rs 354.08 / cum	Rs 41252.09
3	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	
		Net Total Quantity	7.184 cum
		Say 7.184 cum @ Rs 6226.34 / cum	Rs 44730.03
4	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	
		Net Total Quantity	4.032 cum
		Say 4.032 cum @ Rs 7913.02 / cum	Rs 31905.30
5	4.1.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	
		Net Total Quantity	4.032 cum
		Say 4.032 cum @ Rs 7723.31 / cum	Rs 31140.39
6	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	
		Net Total Quantity	40.043 cum
		Say 40.043 cum @ Rs 9018.84 / cum	Rs 361141.41
7	50.6.1.4	Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x20cm or nearest available size conforming to IS 2185 part I of 1979 for foundation and plinth with thickness 20cm and above in: CM 1:6 ( 1 cement : 6 coarse sand ) etc complete	
		Net Total Quantity	9.627 cum
		Say 9.627 cum @ Rs 5162.86 / cum	Rs 49702.85
8	13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix:1:4 (1 cement :4 fine sand)	
		Net Total Quantity	67.441 sqm
		Say 67.441 sqm @ Rs 274.18 / sqm	Rs 18490.97

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PRICE

9	5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 ( cement : 3 fine sand).		
		Net Total Quantity	129.611 sqm
		Say 129.611 sqm @ Rs 194.99 / sqm	Rs 25272.85
10	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		
		Net Total Quantity	6004.500 kilogram
		Say 6004.500-kilogram @ Rs 98.58 / kilogram	Rs 591923.61
11	12.42.1.2 Coupler 110 mm		
		Net Total Quantity	25.000 each
		Say 25.000 each @ Rs 200.2 / each	Rs 5005.00
12	12.42.5.2 Providing and fixing on wall face unplasticised- PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion Bend 87.5° 110 mm bend		
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 233.85 / each	Rs 2338.50
13	11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
		Net Total Quantity	184.100 sqm
		Say 184.100 sqm @ Rs 1211.13 / sqm	Rs 222969.03
<b>4 ELECTRIFICATION</b>			
Lump-Sum Total			Rs 640000.00
<b>10 SOIL INVESTIGATION &amp; Unforseen items</b>			
Lump-Sum Total			Rs 358120.00
Service Tax @			6.0%
Service Tax Amount			1132075.53
Total with Service Tax Amount			2000000.98
			<b>TOTAL Rs 2000000.98</b>
			<b>Rounded Total Rs 2,00,00,001</b>

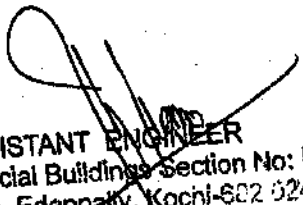
Receipt No : 1145205/2017/H EDN


EST NO:2016-2017/0

PRICE

Rupees Two Crore One Only

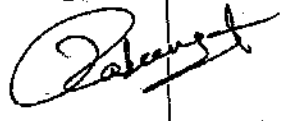
(Cost Index Applied for this estimate is 44.76%)

  
**ASSISTANT ENGINEER**  
 PWD Special Buildings Section No: I  
 Ernakulam, Edappally, Kochi-682 024

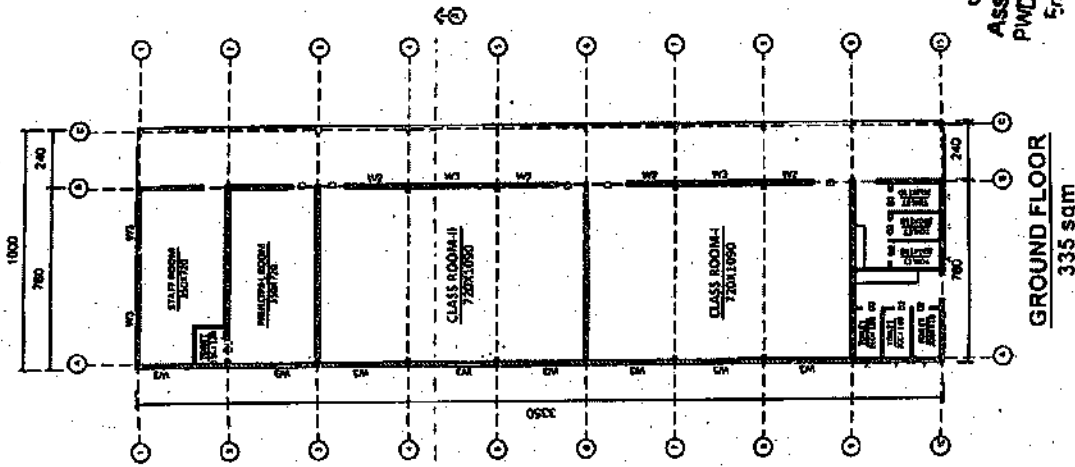
  
**Assistant Executive Engineer**  
 PWD Special Buildings Sub Division  
 Ernakulam, Edappally-682 024

  
**EXECUTIVE ENGINEER**  
**PWD BUILDINGS DIVISION**  
**ERNAKULAM**

**Sd/-**  
**J. RAVEENDRAN**  
 Chief Engineer  
 P.W.D. Buildings  
 Submitted by order

  
**RABEENA A**  
 Executive Engineer, PIU  
 O/o the Chief Engineer, Buildings  
 Public Works Department  
 Thiruvananthapuram

Receipt No : 1145205/2017/H EDN



**GROUND FLOOR**  
335 sqm

*P. J. R.*  
**EXECUTIVE ENGINEER**  
**PWD BUILDINGS DIVISION**  
**ERNAKULAM**

*[Signature]*  
**Assistant Executive Engineer**  
**PWD Special Buildings Sub Division**  
**Ernakulam, Edappally-682 024**

**ASSISTANT ENGINEER**  
**PWD Special Buildings Sub Division No: I**  
**Ernakulam, Edappally-682 024**

Grade of Steel: Fe-415

1. No dimensions are to be scaled out from the drawing. Figured dimensions should be followed.

2. All dimensions are in Centimeters

**DRAWING DETAILS**  
**GROUND FLOOR PLAN**

NO.	DATE	REVISIONS	SCALE	DATE	BY	CHKD	APPD
01		FOR APPROVAL	1:1				
02							
03							
04							

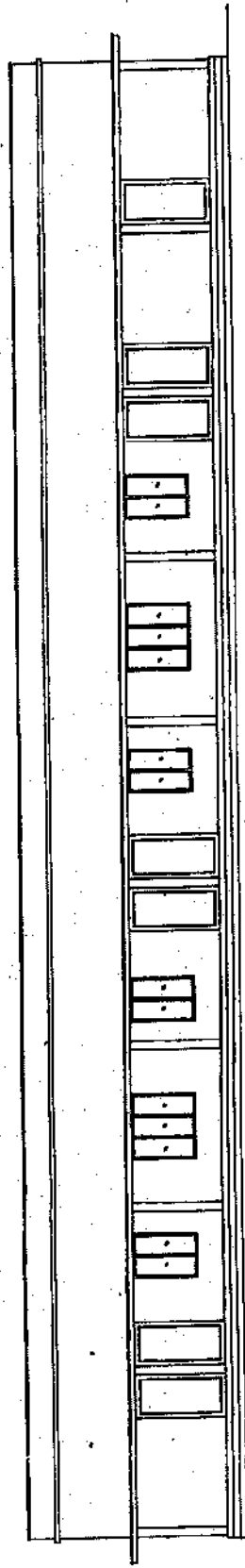
**ARTS AND SCIENCE COLLEGE,**  
**ELANKUNNAPUZHA**

**GROUND FLOOR**





Receipt No : 1145205/2017/H EDN



ELEVATION

*[Signature]*  
**ASSISTANT ENGINEER**  
 PWD Special Buildings Section No: 1  
 Ernakulam, Edappally, Kochi-682 024

*[Signature]*  
**Assistant Executive Engineer**  
 PWD Special Buildings Sub Division  
 Ernakulam, Erappally-682 024

*[Signature]*  
**EXECUTIVE ENGINEER**  
 PWD BUILDINGS DIVISION  
 ERNAKULAM

Circle of Steel: Fe 415

1. No dimensions are to be scaled out from the drawing. Figured dimensions should be followed.

2. All dimensions are in Centimeters

DRAWING DETAILS

WEST SIDE BALCONY FURN

NO	REVISIONS

NO	PARTICULARS	DATE

REMARKS

DATE FOR APPROVAL

NO	VERSION	DATE	BY	CHK

PROJECT

CLEAR

SCALE

UNIT

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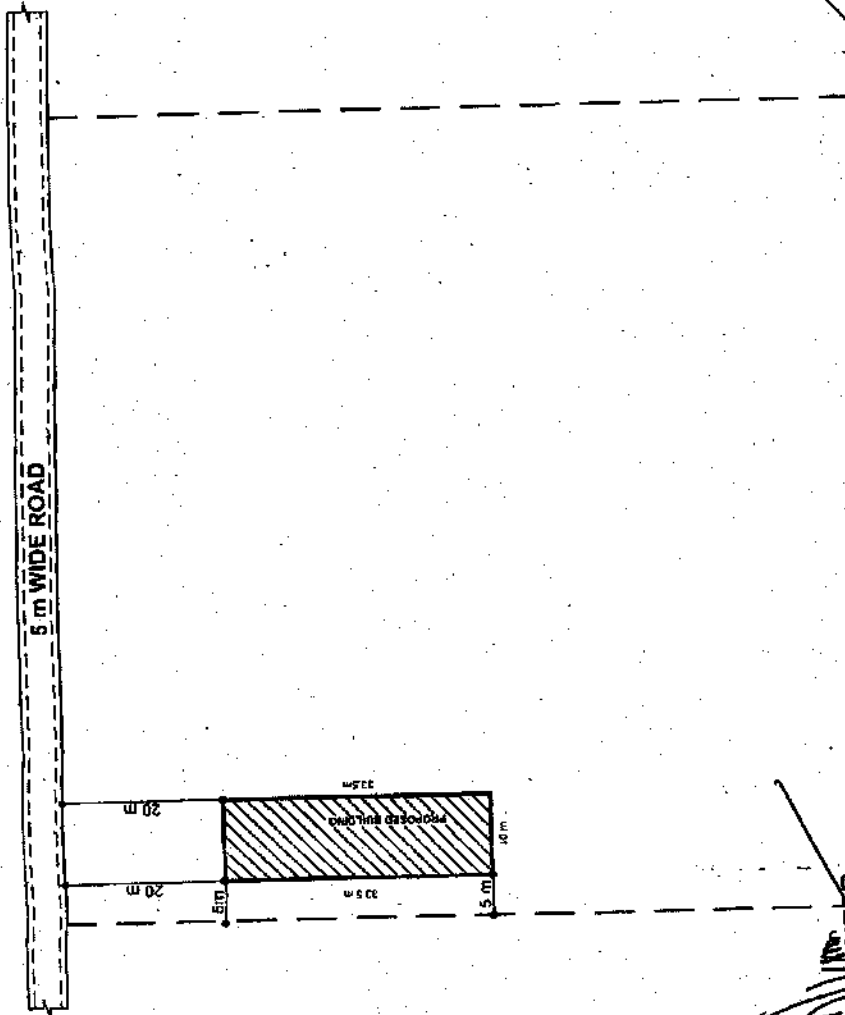
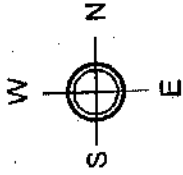
BY

CHK

DATE

NO

Receipt No: 1145205/2017/H EDN



*Thilaka*

*[Signature]*  
**EXECUTIVE ENGINEER**  
**PWD BUILDINGS DIVISION**  
**ERNAKULAM**

**Assistant Executive Engineer**  
**PWD Special Buildings Sub-Division**  
**Ernakulam, Edappally-682 024**

**SITE PLAN**

**ASSISTANT ENGINEER**  
**PWD Special Buildings Section No: 1**  
**Ernakulam, Edappally, Kochi-682 024**

Grade of Sheet: P-415

1. No dimensions are to be scaled out from the drawing. Figured dimensions should be followed.

2. All dimensions are in meters

DRAWING DETAILS		NO.	DATE	SCALE	BY	CHECKED
FIRST FLOOR PLAN		01	21/12/18	1:100	[Signature]	[Signature]
REMARKS	DRAFT FOR APPROVAL	DATE	BY	SCALE	BY	CHECKED
		21/12/18	[Signature]	1:100	[Signature]	[Signature]
PARTICULARS	DATE	BY	SCALE	BY	CHECKED	DRAWING TITLE
						SITE PLAN
						PROJECT
						ARTS AND SCIENCE COLLEGE, ELANKUNRAPUZHA