

E.G.S. PILLAY ENGINEERING COLLEGE
 NAGAPATTINAM - 611 002.
 (An ISO 9001:2015 Certified Institution)
 (Approved by AICTE, New Delhi, Approved by Govt. of Tamil Nadu)
 (Affiliated to Anna University Chennai)



Consultancy services
 (Department of Civil Engineering)

Ref. No. EGSPEC/MT/4084/2020

Date: 06.02.2020

1. Name of the Client : **The SALYA Construction.,**
 20, Nadayar East Road,
 Nagapattinam – 611109
 Tamilnadu
2. Client Reference No : SALYA/EGS/NGT/2020-21/002 dated 30.01.2020
3. Project : Construction of Sidhar Kovil School Building, Vadakku Poigainallur,
 Nagapattinam.
4. Sample details : UDS sample Soil [2 Nos. Location-A & Location- B]
5. Sample received : 31.01.2020
6. Sample test date : 01.02.2020
7. Test conducted by : Mr. A. Arjunan. Assistant Professor.
8. Test verified by : Dr.R, Sivakumar, Professor.

Encl: Test Report



[Handwritten Signature]
 6/2/20

Head of the Dept.
 DEPT. OF CIVIL ENGINEERING
 E.G.S. PILLAY ENGINEERING COLLEGE
 NAGAPATTINAM - 611 002.



E.G.S. PILLAY ENGINEERING COLLEGE

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Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MT/4082/2020

Date: 06.02.2020

SAFE BEARING CAPACITY OF SOIL

(IS: 6403 - 1981)

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Date of Sample: 31.01.2020

Date of Tested: 01.02.2020

Location- A

A ABSTRACT			
1	Natural ground level	M	: 0.000
2	Foundation level	M	: 2.100
3	Depth of foundation	M	: 2.100
4	Grain size Analysis:		
	Gravel	%	: 0.0
	Coarse sand	%	: 3.2
	Medium sand	%	: 7.5
	Fine sand	%	: 27.5
	Silt & clay	%	: 61.8
5	Atterberg's Limits:		
	Liquid limit	%	: 31.22
	Plastic limit	%	: 15.25
	Plasticity Index		: 15.97
6	Soil (IS) classification		: CH
7	Natural moisture content	%	: 17.11
8	Bulk density	g/cc	: 1.855
	Dry density	g/cc	: 1.584
9	Shear parameters		
	Cohesion (C)	Kg/cm ²	: 0.01
	Angle of internal friction (ϕ)		: 24.32
			[24° 19'
10	Net Ultimate safe bearing capacity (q_{nu})	T/Sqm	: 46.99
11	Safe Bearing Capacity (q_{ds})	T/Sqm	: 15.7

154 KN/sq.m

Supervised by

Note:

- Any correction without attestation will invalidate this certificate
- The results relate only to the samples tested



Head of the Dept.
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Conti.,



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B FORMULA AS PER IS:6403-1981

Net ultimate bearing capacity

$$q_{nu} = C N_c d_c s_c i_c + g D (N_q - 1) d_q s_q i_q + 0.5g B N_g d_g s_g i_g W'$$

N_c, N_q, N_g = Bearing capacity factors

g = Unit weight of soil below foundation base.

D = Depth of foundation

W' = Water table correction factor

S_c, S_q, S_g = Shape factor

For Strip footing

$S_c, S_q, S_g = 1$

For Rectangular footing

$S_c = 1 + 0.2 B/L, S_q = 1 + 0.2 B/L$ & $S_g = 1 - 0.4 B/L$

For Square footing

$S_c = 1.3, S_q = 1.2$ & $S_g = 0.8$

For Circular footing

$S_c = 1.3, S_q = 1.2$ & $S_g = 0.6$

d_c, d_q, d_g = Depth-factor

(Note: Correction factor is to be applied only when backfilling is done with proper compaction)

$d_c = 1 + 0.2 \times (D_f / B) \tan (45^\circ + \phi' / 2)$

$d_q = d_g = 1$ for $\phi' < 10^\circ$

$d_q = d_g = 1 + 0.1 \times (D_f / B) \tan (45^\circ + \phi' / 2)$ for $\phi' > 10^\circ$

i_c, i_q, i_g = Inclination factor for the load inclined at an angle to the vertical.

$i_c = i_q = (1 - \alpha^\circ / 90^\circ)^2$

$i_g = (1 - \alpha^\circ / \phi')^2$

α° = inclination of the load with the vertical

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C. ANALYSIS

Type of failure : General shear failure

1	Assume Cohesion C	c	: 0.10	Kg/Sqm	=: 1.0	T/Sqm
2	Angle of internal friction	ϕ	: 24.32			
3	Width of foundation	B	: 1.30	M		
4	Length of foundation	L	: 1.30	M		
5	Bearing capacity factors					
			: 24.32	°		
		N_c	: 19.92		20	25
		N_q	: 10.08		14.83	20.72
		N_g	: 10.13		6.40	10.66
					5.39	10.88
6	Shape factors					
		S_c	: 1.20			
		S_q	: 1.20			
		S_g	: 0.60			
7	Depth factors					
8	Inclination factors	$d_c = d_q = d_g$: 1			
9	Water table correction factor	$i_c = i_q = i_g$: 1			
10	Unit weight of soil	w'	: 0.3			
11	Depth of foundation	g	: 1.855	g/cc	=: 1.855	T/Cum
12	Assume width	D	: 2.100	M		
13	Net Ultimate bearing capacity	B	: 1.3	M		
		$C N_c d_c s_c i_c$	(a) : 2.34	T/Sqm		
		$g D (N_q - 1) d_q s_q i_q$	(b) : 42.45	T/Sqm		
		$0.5 g B N_g d_g s_g i_g W'$	(c) : 2.20	T/Sqm		
14	Factor of safety	q_{nu} a+b+c	: 46.99	T/Sqm		
		F_s	: 3.0			
15	Safe bearing capacity q_{ds}	q_{nu} / F_s	: 15.66	T/Sqm		

154 KN/sq.m

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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4083/2020

Date: 06.02.2020

SAFE BEARING CAPACITY OF SOIL

(IS: 6403 - 1981)

To

The SALYA Construction.,

20, Nadavar East street,

Nagapattinam - 611109

Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Date of Sample: 31.01.2020

Date of Tested: 01.02.2020

Location- A

<u>A</u> ABSTRACT			
1	Natural ground level	M	: 0.000
2	Foundation level	M	: 2.000
3	Depth of foundation	M	: 2.000
4	Grain size Analysis:		
	Gravel	%	: 0.0
	Coarse sand	%	: 3.2
	Medium sand	%	: 7.2
	Fine sand	%	: 28.6
	Silt & clay	%	: 61.0
5	Atterberg's Limits:		
	Liquid limit	%	: 30.98
	Plastic limit	%	: 14.55
	Plasticity Index		: 16.43
6	Soil (IS) classification		: CH
7	Natural moisture content	%	: 18.26
8	Bulk density	g/cc	: 1.849
	Dry density	g/cc	: 1.564
9	Shear parameters		
	Cohesion (C)	Kg/cm ²	: 0.01
	Angle of internal friction (ϕ)	°	: 24.15
10	Net Ultimate safe bearing capacity (q_{nu})	T/Sqm	: 44.13
11	Safe Bearing Capacity (q_{ds})	T/Sqm	: 14.7

[24° 9']

144 KN/sq.m

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B FORMULA AS PER IS:6403-1981

Net ultimate bearing capacity

$$q_{nu} = C N_c d_c s_c i_c + g D (N_q - 1) d_q s_q i_q + 0.5g B N_g d_g s_g i_g W'$$

N_c, N_q, N_g = Bearing capacity factors

g = Unit weight of soil below foundation base.

D = Depth of foundation

W' = Water table correction factor

S_c, S_q, S_g = Shape factor

For Strip footing

$$S_c, S_q, S_g = 1$$

For Rectangular footing

$$S_c = 1 + 0.2 B/L, S_q = 1 + 0.2 B/L \text{ \& } S_g = 1 - 0.4 B/L$$

For Square footing

$$S_c = 1.3, S_q = 1.2 \text{ \& } S_g = 0.8$$

For Circular footing

$$S_c = 1.3, S_q = 1.2 \text{ \& } S_g = 0.6$$

d_c, d_q, d_g = Depth-factor

(Note: Correction factor is to be applied only when backfilling is done with proper compaction)

$$d_c = 1 + 0.2 \times (D_f / B) \tan (45^\circ + \phi' / 2)$$

$$d_q = d_g = 1 \text{ for } \phi' < 10^\circ$$

$$d_q = d_g = 1 + 0.1 \times (D_f / B) \tan (45^\circ + \phi' / 2) \text{ for } \phi' > 10^\circ$$

i_c, i_q, i_g = Inclination factor for the load inclined at an angle to the vertical.

$$i_c = i_q = (1 - \alpha^\circ / 90^\circ)^2$$

$$i_g = (1 - \alpha^\circ / \phi')^2$$

α° = inclination of the load with the vertical

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C. ANALYSIS

Type of failure : General shear failure

1	Assume Cohesion C	c	: 0.10	Kg/Sqm	=: 1.0	T/Sqm
2	Angle of internal friction	ϕ	: 24.15			
3	Width of foundation	B	: 1.30	M		
4	Length of foundation	L	: 1.30	M		
5	Bearing capacity factors					
			: 24.15	°		
		N_c	: 19.72		20	25
		N_q	: 9.94		14.83	20.72
		N_g	: 9.95		6.40	10.66
6	Shape factors				5.39	10.88
		S_c	: 1.20			
		S_q	: 1.20			
		S_g	: 0.60			
7	Depth factors					
8	Inclination factors	$d_c = d_q = d_g$: 1			
9	Water table correction factor	$i_c = i_q = i_g$: 1			
10	Unit weight of soil	w'	: 0.3			
11	Depth of foundation	g	: 1.849	g/cc	=: 1.849	T/Cum
12	Assume width	D	: 2.000	M		
		B	: 1.3	M		
13	Net Ultimate bearing capacity					
		$C N_c d_c s_c i_c$	(a)	: 2.32	T/Sqm	
		$g D (N_q - 1) d_q s_q i_q$	(b)	: 39.65	T/Sqm	
		$0.5 g B N_g d_g s_g i_g W'$	(c)	: 2.15	T/Sqm	
		q_{nu}	a+b+c	: 44.13	T/Sqm	
14	Factor of safety	F_s	: 3.0			
15	Safe bearing capacity q_{ds}	q_{nu} / F_s	: 14.71	T/Sqm		

144 KN/sq.m

Supervised by

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Consultancy services
(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4095/1/2020

Date: 12.02.2020

CONCRETE MIX DESIGN [M25 RCC]
(IS 10262-2019 & IS 456-2000)

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu.

Name of Work: : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2020-21/002 DATED 30.01.2020

Requested on : 03.02.2020

Concrete Mix Design date: 11.02.2020

SOURCES OF MATERIALS

1	Coarse aggregate: 20mm & 12.5mm	: Best Blue Metal, Karur
2	Fine aggregate: M-Sand	: Best Blue Metal, Karur
3	Cement brand	: Dalmia Cement
4	Admixture brand	: Sika India Pvt Ltd.,
<u>DESIGN STIPULATIONS</u>		
1	Grade Designation	: M25 RCC
2	Type of cement	: OPC-53 Grade
3	Max. Nominal Size of aggregate	: 20mm
4	Minimum Cement Content	: 320 Kg/cu.m
5	Maximum Water cement ratio	: 0.45
6	Workability	: 25 - 75mm
7	Exposure conditions	: Moderate
8	Maximum temperature of concrete at the time of placing	: 40°C
9	Method of transporting / placing	: Transit mixture / Self Loading Mixer
10	Early age strength requirement (if reqd.)	: Not Applicable
11	Type of aggregate	: Angular
12	Maximum Cement content	: 450 Kg/Cum
13	Type of admixture	: Super plasticizer cum retarder

A. M. 12.2.2020



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TEST DATA FOR MATERIALS

Proportion of Coarse aggregate : Fine aggregate

1	% of C/A to the total weight of aggregate	:	58%
2	% of F/A to the total weight of aggregate	:	42%
Proportions in C/A:			
3	% of 20 mm	:	45%
4	% of 12.5 mm	:	65%
5	Specific gravity of 20 mm	:	2.833
6	Specific gravity of 12.5 mm	:	2.817
7	Combined specific gravity of C/A	:	2.824
8	Water absorption of 20 mm	:	0.365%
9	Water absorption of 12.5 mm	:	0.478%
10	Free surface moisture of 20 mm	:	0.00%
11	Free surface moisture of 12.5 mm	:	0.00%
12	Specific gravity of M-Sand	:	2.727
13	Water absorption of M-Sand	:	1.023%
14	Free surface moisture of M-Sand	:	1.20%
15	Specific Gravity of Cement	:	3.148
16	Specific Gravity of Admixture	:	1.18

MIX CALCULATION

1	Target Mean strength	:	31.60 N/mm ²
2	Water Cement ratio	:	0.44
3	Mass of cement	:	370.00 Kg
4	Mass of water	:	163.000 Kg
5	Dosage of chemical admixture	:	0.70%
6	Mass of chemical admixture	:	2.590 Kg

A.M. 12.2.2020



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Cont.,

<u>VOLUME OF CONCRETE</u>		:	1.000 Cum
1	Volume of cement	:	0.118 Cum
2	Volume of Water	:	0.163 Cum
3	Volume of Chemical admixture	:	0.002 Cum
4	Volume of all-in-aggregate	:	0.717 Cum
5	Mass of coarse aggregate	:	1175 Kg
	Mass of 20mm	:	529 Kg
	Mass of 12.5mm	:	646 Kg
6	Mass of Fine aggregate (M-Sand)	:	822 Kg

MIX PROPORTION

Ingredients	Per m ³ in SSD Condition	Per bag of cement in SSD Condition
	Kg.	Kg.
Cement	370	50.0
Water	163	22.0
Fine aggregate (M-Sand)	822	97.7
20mm	529	62.9
12.5mm	646	76.8
Chemical admixture	2.590	0.35

Proportion:	Cement	F/A	C/A	Water Cement ratio
	1	2.22	3.18	0.44

Slump Retention

	Initial	30'	60'	90'
Slump observation(mm)	168,170	142,135	108,105	72,70
Date of Casting	11.02.2020			
No. of Cubes casted	12 No's			

Temperature of Mix: 31.2 °C

Observations: Mix is cohesive

Workability: Good

Supervised by

Note:

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Consultancy services
(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4275/2021

Date: 14.01.2021

COMPRESSIVE STRENGTH OF CONCRETE CUBES [RCC M25]

[As per IS:516]

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu.

Name of Work: : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2021-22/005 DATED 07.01.2021

Part of Structure : Column C1

Grade of Concrete : RCC M25

Characteristic Compressive Strength: 25 N/mm²

Date of Cubes casting: 07.01.2021

Date of Testing (7 days): 14.01.2021

Size of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225cm²

S. No.	Cube No.	Weight of Cube g	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm ²)	Average Compressive Strength (N/mm ²)	Remarks
1	1	8479	2.512	7	430	19.11	19.85	
2	2	8533	2.528	7	440	19.56		
3	3	8437	2.500	7	470	20.89		

Average compressive Strength: **19.85** N/mm² [7 days: \geq 16.75 N/mm²]

7 days Cubes Compressive Strength test results are within the limits.

Supervised by
A. Anand Kumar (14.01.21)

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Head of the Dept.

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Consultancy services
(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4275/2021

Date: 14.01.2021

COMPRESSIVE STRENGTH OF CONCRETE CUBES [RCC M25]
[As per IS:516]

To

The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu.

Name of Work: : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2021-22/005 DATED 07.01.2021

Part of Structure : Column C1

Grade of Concrete : RCC M25

Characteristic Compressive Strength: 25 N/mm²

Date of Cubes casting: 07.01.2021

Date of Testing (28 days): 04.02.2021

Size of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225cm²

S. No.	Cube No.	Weight of Cube g	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm ²)	Average Compressive Strength (N/mm ²)	Remarks
1	1	8561	2.537	28	680	30.22	28.59	
2	2	8492	2.516	28	610	27.11		
3	3	8509	2.521	28	640	28.44		

Average compressive Strength: **28.59** N/mm² [28 days: ≥ 25 N/mm²]

28 days Cubes Compressive Strength test results are within the limits.

Supervised by

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Tamilnadu

Rtn. MPHF. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/001

Date: 21.01.2020

To

The Head of the Department.,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project:Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of SidharKovil School Building, Vadakku Poigainallur, Nagapattinam.

Dear Sir,

Here with please kindly send me the quotation for **Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.** As we discussed, the required Soil investigation, building planning & Estimation, Material testing along with concrete Mix design, Concrete cubes compressive strength, Field inspection and overall consultancy charges.

This is for your kind information.

Thanking you and assuring of our best services at all times.

For SALYA CONSTRUCTION

Authorised Signatory

Builders

Planners

Architects

20, Naduvar East Street, Nagapattinam - 611 001. Tamil Nadu, India. Ph: 04365 241315, Cell: 98424 41315.

www.salya.in salyaconstruction@yahoo.com

Rtn. MPHF. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/002

Date: 30.01.2020

To

The Head of the Department,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project: Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Acceptance - Requesting quotation for Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Reference: EGSPEC/MTR/4079/2020 Dated 27.01.2020

Dear Sir,

Here with please kindly send me the quotation for **Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.** As we discussed, the required Soil investigation, building planning & Estimation, Material testing along with concrete Mix design, Concrete cubes compressive strength, Field inspection and overall consultancy charges.

As we discussed, we accepted your term and conditions, please kindly proceed required further activities.

This is for your kind information.

Thanking you and assuring of our best services at all times.

For SALYA CONSTRUCTION

Authorised Signatory

Builders

Planners

Architects

20, Naduvar East Street, Nagapattinam - 611 001. Tamil Nadu, India. Ph: 04365 241315, Cell: 98424 41315.
www.salya.in salyaconstruction@yahoo.com

Rtn. MPHE. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/003

Date: 31.01.2020

To

The Head of the Department,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project: Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Requesting Soil Investigation (SBC Value) for Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Dear Sir,

Here with please kindly Requesting Soil Investigation (SBC Value)for **Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.**

This is for your kind information.

Thanking you and assuring of our best services at all times.

For SALYA CONSTRUCTION

Authorised Signatory

Builders

Planners

Architects

20, Naduvar East Street, Nagapattinam - 611 001. Tamil Nadu, India. Ph: 04365 241315, Cell: 98424 41315.

www.salya.in

salyaconstruction@yahoo.com



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

Accredited by NAAC with 'A' Grade

Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/4079/2020

Date: 27.01.2020

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611002
Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Reference: SALYA/EGS/NGT/001 Dated: 21.01.2020

Respected Sir,

You have requested quotation based on discussion as for proposed Siddhar Kovil School Building @ Nagapattinam the following details evaluated.

1. Soil Investigation
2. Building Planning, Designing, Estimation and Consultancy charges
3. Material testing along with concrete Mix design
(Materials- Coarse Aggregate: 40mm, 20mm, & 12.5mm
Fine Aggregate: M-Sand & P-Sand
Water, Cement and Admixture
Bricks: Fly ash Bricks
Steel: TMT Bars Fe-500
4. Concrete Cubes Compressive strength charges
5. Field Inspection charges / Consultancy

Here with as we discussed, the above-mentioned Consultancy / Testing charges value is 6.50% made by the approximant project total Estimation value. [GST Excluding]

For EGSPEC

[Signature]
27-1-20
Dr. R. SIVAKUMAR, M.E., Ph.D.

Professor & Head

Head of the Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Encl: As stated above

Received
[Signature]



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

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An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/4097/2020

Date: 10.03.2020

QUOTATION

To

The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611002
Tamilnadu.

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Reference: SALYA/EGS/NGT/002 Dated: 30.01.2020

SALYA/EGS/NGT/003 Dated: 31.01.2020

Respected Sir,

You have requested quotation based on discussion as for proposed Siddhar Kovil School Building @ Nagapattinam the following details evaluated.

1. Soil Investigation
2. Building Planning, Designing, Estimation and Consultancy charges
3. Material testing along with concrete Mix design
(Materials- Coarse Aggregate: 40mm, 20mm, & 12.5mm
Fine Aggregate: M-Sand & P-Sand
Water, Cement and Admixture
Bricks: Fly ash Bricks
Steel: TMT Bars Fe-500
4. Concrete Cubes Compressive strength charges
5. Field Inspection charges / Consultancy

Received
Emmanuel

For EGSPEC Consulting Authorized persons

Dr. R.Sivakumar, (Prof/Civil)

A.Arjunan, Asso.Prof/Civil

+91-9443533554

+91-9791268159

Email: siva7570@gmail.com

Email: arjunan86@gmail.com

15.3.20
SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
S. Pillay Engineering College,
Nagapattinam.



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

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An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Here with as we discussed, the following Consultancy / Testing charges are evaluated

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lakhs rupees only)		
		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
GST	CGST	97,110.00
	SGST	97,110.00
	Total Charges	12,73,220.00
Amount in Words: Twelve lakhs seventy-three thousand two hundred twenty rupees only		

1st term, 2nd term & 3rd term to be release as we discussed, by the year of every quarterly.

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lakhs rupees only)		
I-TERM PAYMENT		
		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (1 st term)	3.00 % of Estimation value	4,98,000.00
GST	CGST (9%)	44,820.00
	SGST (9%)	44,820.00
	Total Charges	5,87,640.00
Amount in Words: Five lakhs eighty-seven thousand six hundred fourty rupees only		

10.3.22
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Received
Emmanuel



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

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Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lac rupees only)

II - TERM PAYMENT

		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (2 nd term)	2.00 % of Estimation value	3,32,000.00
GST	CGST (9%)	29,880.00
	SGST (9%)	29,880.00
Total Charges		3,91,760.00
Amount in Words: Three lakhs ninety-one thousand seven hundred sixty rupees only		

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lac rupees only)

III - TERM PAYMENT

		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (3 rd term)	1.50 % of Estimation value	2,49,000.00
GST	CGST (9%)	22,410.00
	SGST (9%)	22,410.00
Total Charges		2,93,820.00
Amount in Words: Two lakhs ninety-three thousand eight hundred twenty rupees only		

The required Soil investigation, Materials sampling / testing already completed. The Building Planning, Drawing Designing and Estimation works in completion stage. As we discussion, Please kindly release as earliest advance of I-term payment value.

For EGSPEC

Dr. R. SIVAKUMAR, Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Received
Emmanuel

Terms & Conditions:

Payment & Terms: 1st term, 2nd term & 3rd term to be release as we discussed, by the year of

VALID FOR THREE MONTHS ONLY

11012020

DDMMYY

OR ORDER

Pay Reads consultancy, E. C. S. Pillay Engineering College, Nagapattinam

Rupees Five lakhs Eighty Seven thousand Six hundred and forty only

₹ 5,87,640/-

A/c No. 609405009795

SALVA CONSTRUCTION

Salva

AUTHORISED SIGNATORIES

Please sign above



ICICI Bank
NAGAPATTINAM Branch
P.B.No.5,40, Meela South Street, Nagapattinam - 611 007.
RTGS / NEFT / IFS Code: ICIC0006094

SESHASAI (C) / CTS - 2010

CABUS CBS
BUSINESS BANKING : CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India

11/3/21



⑈000970⑈ 611229002⑈ 009795⑈ 29

VALID FOR THREE MONTHS ONLY

03032021

DDMMYY

OR ORDER

₹ 3,91,760/-

SALYA CONSTRUCTION

[Signature]

AUTHORISED SIGNATORIES

Please sign above

[Signature]
PRIVILEGE

ICICI Bank

NAGAPATTINAM Branch

P.B.No.5,40, Neeela South Street, Nagapattinam - 611 401.

RTGS / NEFT / IFS Code : ICIC006794

Pay Rand D Consultancy, E.A.S.Pillay Engineering College, Nagapattinam.
Rupees Three Lacks ninety one Thousand Seven hundred
and sixty only.

A/c No. 609405009795

CABUS CBS
BUSINESS BANKING : CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India



11/3/21



⑈000984⑈ 611229002⑈ 009795⑈ 29

ICICI Bank
NAGAPATTINAM Branch
P.B.No.5,40, Meela South Street, Nagapattinam - 611 001.
RTGS / NEFT / IFSC Code : ICIC0006094

PRIVILEGE

VALID FOR THREE MONTHS ONLY

23022022
DDMMYY

Pay Rand D. Coosaltancy, E.G.S.Pillay Engineering College, Nagapattinam OR ORDER

Rupees Two lakhs Ninety thousand Eight hundred
and twenty only ₹ 2,93,820/-

A/c No. 609405009795

CBS CBS
BUSINESS BANKING - CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India

SALYA CONSTRUCTION

AUTHORISED SIGNATORIES

Printed sign above



11/3/21



⑈001006⑈ 611229002⑈ 009795⑈ 29

SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

Location: Construction of Sidhar Kovil Building, Vadakku Poigainallur, Nagapattinam





SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

Location: Construction of Sidhar Kovil Building, Vadakku Poigainallur, Nagapattinam



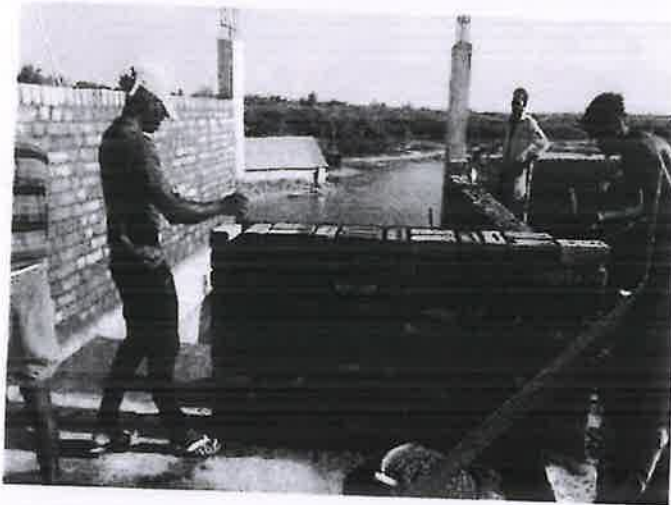
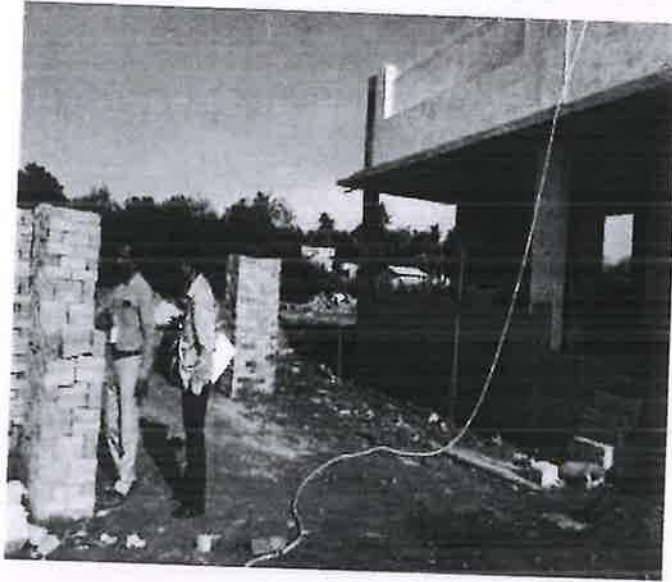
SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

Location: Construction of Sidhar Kovil Building, Vadakku Poigainallur, Nagapattinam



SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

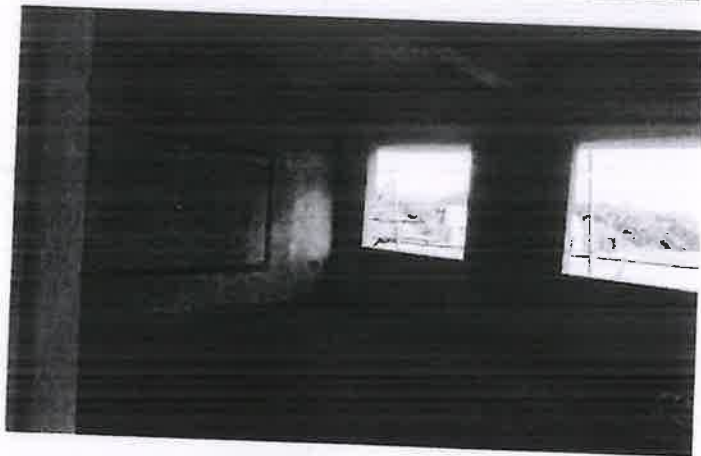
Location: Construction of Sidhar Kovil Builing, Vadakku Poigainallur, Nagapattinam



SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION

PHOTOS

Location: Construction of Sidhar Kovil Builing, Vadakku Poigainallur, Nagapattinam



SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

Location: Construction of Sidhar Kovil Building, Vadakku Poigainallur, Nagapattinam



CONSULTANCY WORK

CAPTCHA BASED AUTHENTICATION FOR WEBSITES

CUSTOMER DETAIL

Vei TECHNOLOGIES

Chennai – 600004

Coordinator(s)

Dr.S. MANIKANDAN

Dr. K. MANIKANDA KUMARAN

Mr. V. M. SURESH

DEPARTMENT OF INFORMATION TECHNOLOGY

E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM-611 002.

TAMILNADU.

<https://www.egspec.org>

Phone: 04365- 251112

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

DEPARTMENT OF INFORMATION TECHNOLOGY

Consultancy Work

"CAPTCHA BASED AUTHENTICATION FOR WEBSITES"

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E. G. S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.
(An ISO 9001:2008 Certified Institution)
(Approved by AICTE, New Delhi, Approved by Govt. of Tamil Nadu.)
(Affiliated to Anna University Chennai)



DEPARTMENT OF INFORMATION TECHNOLOGY

02/07/2021

To Director ,
Vei Technologies
Chennai

Sir
Sub: Consultancy Work – Reg

Greetings from EGS Pillay Engineering College, Nagapattinam

We are happy to inform you that we are doing consultancy work for Captcha Based authentication system for websites. This project mainly focuses on secure authentication for employees in an organization. Herewith we send Institution and department profile for your reference.

Hence we request you give a positive response from your side.

Thanking You

Yours Sincerely


S. MANIKANDAN



1. INSTITUTION PROFILE

E.G.S Pillay Engineering College is a pioneering Engineering College, established in the year 1995, at Nagapattinam, which is a typical rural and backward area of Tamil Nadu. The institution was created by Late.G.S.Pillay. He was born on 2nd January, 1930 in a poor family. He was deprived of education due to his family circumstance. He went to Seychelles when he was 15 years old in search of employment for his livelihood. The E.G.S Pillay Engineering College, Nagapattinam was the first institution established by Mr.G.S.Pillay in the year 1995 aiming at providing world class education in engineering, fostering industrial prosperity and aiding the socio-economic development of the nation at large. The institution was affiliated to Bharathidasan University, Trichy during the years 1995 to 2006 and afterwards the affiliation is being accorded by the Anna University.

The college is located in the significant pilgrimage zone of south India covering Velankanni, Nagore and neighbour state Karaikal-Thirunallar. It is situated close to East Coast Road (ECR) between Karaikal and Nagapattinam and 2 km from Nagore. The nearest Railway station is Nagapattinam which has direct link with Chennai and Trichy. The nearest airport is Trichy which is 120 km away and that of Chennai is 350 km away.

The college is stepping into 19th year of excellent service in the year of 2014. Over these years, the college has attained commendable growth by developing itself in every aspect, in terms of academic programs, infrastructure development, staff recruitment, students admission, project and research activities, Transport, Training and Placement, centralized library, Sports and games etc.,

The college offers 6 UG degree program in B.E/B.Tech and 6 PG degree programs in M.E including MBA and MCA.

The Programs are

UG Courses:

- B.E – Mechanical Engineering
- B.E – Civil Engineering
- B.E – Computer Science and Engineering
- B.E – Electrical and Electronics Engineering
- B.E – Electronics and Communication Engineering
- B.Tech – Information Technology

PG Courses:

- Master of Business Administration
- Master of Computer Applications
- M.E – Manufacturing Engineering
- M.E – Computer Science and Engineering
- M.E – Communication Systems
- M.E – Power Electronics and Drives

Vision:

- Envisioned to transform our institution into a Global Center of Academic Excellence

Mission:

- To provide world class education to the students and to bring out their inherent talents
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes
- To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills
- To have regular interaction with the the industries in the areas of R&D and offer consultancy training and testing services
- To establish center of excellence in the emerging areas of research
- To offer continuing education, and non-formal vocational education programmes that are beneficial to the society.

2. DEPARTMENT PROFILE

The department has well qualified and experienced staff and it continually updates its laboratories with modern facilities. The department conducts various seminars and workshop periodically. Various associations are formed related to the department. The students are given different mini-projects in the pre-final year so that their individual ideas can be implemented. The staff and students are encouraged to present papers at various colleges and many have won prizes in competitions.

Vision:

- To produce globally competent information technologist and to inculcate values of leadership and research qualities in them

Mission:

- To provide high quality Education to the students by our competent faculty members, effective teaching learning process and value added courses
- To create centres of excellence by interacting with industries for better employability and to contribute to the society through consultancy and R&D works.
- To improve the soft skill, interpersonal skill, ethical behavior and communication skill of students by involving them in team works and technical events.

PROGRAMME EDUCATIONAL OBJECTIVES

- PEO1: Graduates will have knowledge and competency for successful careers in and related to Information Technology
- PEO2: Graduates will contribute to the design and implementation of software systems to solve real life problems in the society with an understanding of profession ethical standards
- PEO3: Graduates are motivated to proceed to higher studies in Engineering or other Professional fields and promote awareness of the life-long learning.
- PEO4: Graduates will work and communicate effectively as individuals and as team members in multidisciplinary projects, research and development activities

PROGRAM SPECIFIC OUTCOMES

The graduates will have

- PSO 1: Apply core aspects of Information Technology and programming paradigms in order to facilitate processing
- PSO 2: Provide solution to real world problems using Structured , Object Oriented Programming Languages and Open Source Software
- PSO 3: Solve Complex IT Problems as a Software Engineer, Software Analyst and Tester in IT and ITeS

PROGRAMME OUTCOMES

Graduates will be able to

PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend

and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Features of the Department

- Ensures quality and value based education
- Provides career guidance by the associating experts in the different fields
- Is renowned for its meticulous planning concerted efforts, competent and committed teaching faculty
- Enables extension / guest-lectures by the expertise in the various disciplines concerned
- Conducts academic programmer like tests, symposia, workshops, seminars etc
- Academic competitions like Paper presentation, essay writing, quiz etc.,
- Tours of academic interests
- Taps innovative talents, interests of its wards
- Conducts Weekly test, Short Answer Test and offers continuous evaluation of the performance of the students
- Remedial classes for slow learners
- Time to Time counseling by mentors
- Challenges students with extensive coaching of wide-ranging difficulty levels by conducting APTITUDE, REASONING tests
- Conducts class committee meetings
- Holds Parent-Teacher meetings
- Encourage the students to donate blood
- Conducts ENGLISH LITERARY ASSOCIATION PROGRAMME for the staff and students
- Ensure students participation in the Women Empowerment cell programs
- Sponsors the faculty for International/National Conferences/Seminars/Workshops, etc
- Personality development programs are conducted to improve student's soft skills
- Students are encouraged to do mini projects
- The department library has an extensive collection of academic books in the areas of latest technologies
- The department has stable, highly qualified and experienced staff members



DIRECTOR

(M)-303374764
veitech@veitech.com

04/07/2021

To
S. MANIKANDAN
HEAD OF THE DEPARTMENT
DEPT OF IT
EGSPILLAY ENGINEERING COLLEGE
NAGAPATTINAM

Sir

Sub: Consultancy Work - Reg

Thank you for your interest. This project idea is very interesting and our customer will do online transaction with us more secure.

We accept your request. Kindly send your project proposal.

Thanking you

Kind regards

A handwritten signature in black ink, appearing to be 'Siva', written in a cursive style.

Siva
(Director)

FD



E. G. S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.
(An ISO 9001:2008 Certified Institution)
(Approved by AICTE, New Delhi, Approved by Govt. of Tamil Nadu)
(Affiliated to Anna University Chennai)



DEPARTMENT OF INFORMATION TECHNOLOGY

07/07/2021

To The Director
Vei TECHNOLOGIES
Chennai – 600004


Sir
Sub: Consultancy Work – Reg

Greetings from EGS Pillay Engineering College, Nagapattinam

We are happy to your positive response. Herewith we send proposal along with Institution and Department profile for your reference. The proposal includes objective of the work, budget details and Expected outcome details.

Hence awaiting for positive reply from your good office and fix one date for discussing consultancy work.

Thanking You

Yours Sincerely

S. MANIKANDAN



1. PROJECT PROPOSAL

01	Title of the Project	: CAPTCHA BASED AUTHENTICATION FOR WEBSITES
02	Type of the Project	: Consultancy Work - Engineering & Technology - Information Technology - Social Networking
03	Name & Designation of the Project Coordinators	: Dr.S. MANIKANDAN Dr. K. MANIKANDA KUMARAN Mr. V. M. SURESH Assistant Professor / IT
04	Postal Address of the Principal Investigator	: Old Nagore Road, Thethi Village, Nagore - Post, Nagapattinam - 611 002
05	Contact Phone numbers of the Project Coordinators	: S.MANIKANDAN Project Coordinator Contact No. +91-9500707894 manikandan@egspec.org
06	Name of the Institution / Organization in which the project will be carried out	: E.G.S Pillay Engineering College, Nagapattinam
07	Customer Details	: Mr SIVA The Director Vei Technologys - 60004
08	Customer Contact Details	: Mr. SIVA (+91) - 90037 / 5764 hr@veitechnologies.com
09	Duration of the Project	: AUGUST 2021 - 2022
10	Total Cost of the Project Proposal (details to be furnished in the prescribed format)	: Enclosed separately - Annexure 1
11	An abstract, not exceeding one page describing the background, objectives methodology & year wise budget	: Enclosed separately - Annexure 2
12	Project Work Plan	: Enclosed separately - Annexure 3

13	Facilities available at the Institution / organization to carry out the project	:	Open Source Lab, Cloud Campus, Android Apps development Centre
14	Expected Outcome	:	Enclosed separately – Annexure 4

V.M. - Rml

Signature of Project Coordinator(s)

S. MANTKANDAN

S. MANTKANDAN
Head of Department

Department of Information Technology,
E.G.S. Pillay Engineering College,
Nagapattinam - 611002

Signature of the
Head of the Department
with Seal



Dr. S. Ramabalan

Signature & Name

Head of the Institution with seal

Dr. S. RAMABALAN, M.E., Ph.D.
Principal

E.G.S. Pillay Engineering College
Nagapattinam - 611002.

Annexure-1**DETAILS OF BUDGET**

S.No	Description	Amount (in Rs.)
A	Preprocessing and Component Preparation	75,000
B	Data Collection, Requirement Analysis, Designing, Prototype model, testing and Maintenance	1,00,000
C	Travel	10,000
D	Total of A+B+C	1,85,000
E	Institutional overhead charges	15,000
F	Total Cost of Project	2,00,000

Annexure - 2

ABSTRACT

Phishing is an attempt by an individual or a group to thief personal confidential information such as passwords, credit card information etc from unsuspecting victims for identity theft, financial gain and other fraudulent activities. Our proposed scheme uses CAPTCHA (Completely Automated Public Turing tests to tell Computers and Humans Apart) as a user authentication. Visual cryptography (VC) is a special type of secret sharing. We have used a new approach for phishing websites classification to solve the problem of phishing. The use of images is explored to preserve the privacy of image captcha by decomposing the original image captcha into two shares that are stored in separate database servers such that the original image captcha can be revealed only when both are simultaneously available; the individual share images do not reveal the identity of the original image captcha. Once the original image captcha is revealed to the user it can be used as the password. Several solutions have been proposed to tackle phishing.

15

Anhexure - 3**Work Plan**

Phase	Cycle	Primary Objective	Scheduled start or milestone	Duration Estimate (calendar days)
Inception / Requirements Analysis	C1	<ul style="list-style-type: none"> ✓ Analyzing Requirements ✓ Collecting Project Requirements 	August – Sep 2021	38 days
Elaboration	C2	<ul style="list-style-type: none"> ✓ Identifying Technical Assistant ✓ Installation and Setup ✓ Purchasing 	October – November 2021	32 days
Designing	C3	<ul style="list-style-type: none"> ✓ Designing Prototype Model ✓ Project Review Status Preparation Submission ✓ Project Modules Preparation 	December – January 2021	35 days
Implementation	C4	<ul style="list-style-type: none"> ✓ Start to develop Coding each Modules ✓ Preparing Workspace model and verify with abstract. ✓ Identify the Risk and Measure the values of on it. 	February – March 2022	45 days
Construction	C5	<ul style="list-style-type: none"> ✓ Complete the Project and meet with Abstract ✓ Objectives and Outcome mapped with the Module ✓ Project Final Phase meeting 	April – May 2022	45 days
Transitions /End	C6	<ul style="list-style-type: none"> ✓ Preparing Documentation Part ✓ Publication and Presentation in Conferenece and Jouranis ✓ Final Project Presentation 	June – July 2022	40 days

Annexure - 4

Expected Outcomes

1. This project prevent an attacker from gaining access to confidential information of an organization
2. Increase the performance of knowledge based authentication mechanism in security system.
3. Allows users to create a simple but effective graphical password using visual cryptography for providing stronger authentication.
4. Efficient and cost effective in the aspects of security
5. Solves the problem of remembering several click points by replacing multiple images in sequence with a single window containing a set of images.

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COORDINATOR DETAILS

S.No	Name of the Coordinator	Designation	Contact No.	EmailID
Faculty Members				
01	V.M. Suresh	AP/IT	9486116002	vmsuresh@egspec.org
02	S. Manikandan	AP/IT	9952145970	profmaninvp@gmail.com
03	K. Manikandakumaran	AP/IT	9080067831	kumaran@egspec.org

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E.G.S Pillay Engineering College, Nagapattinam
Department Information Technology
Faculty Publication and Contributions [up to 2017-2018 ODD Semester]

Name of the Faculty: S.MANIKANDAN, Asst.Prof&HoD

Publications:

Book Publication:

1. **Enterprise Java Beans (EJB) Running Procedure**, International Society for Green, Sustainable Engineering and Management, National Board of Quality Promotion, QCI, Govt of India, ISBN:978-81-930406-6-9

International Journal :

1. S. Manikandan and K. ManikandaKumaran, "**Identifying Semantic Identifying Semantic Relations Between Disease And Treatment Using Machine Learning Approach**", International Journal of Engineering Research & Technology(IJERT), essn:2278-0181, Vol.2, June - 2013.
2. S.Manikandan and Mr. S. Pasupathy, "**An Efficient Streaming-Application on Distributed Hybrid Cloud Platforms**". International Journal of Advanced Information Science and Technology (IJAIST) ISSN: 2319:2682, Vol.3, No.2, February'2014.
3. S. Manikandan, K. ManikandaKumaran, "**Performance Analysis of Mobile Ad-Hoc Network Routing Protocols using Network Simulator – 2**", COMPUSOFT, An International Journal of Advanced Computer Technology, ISSN:2320-0790, Vol.03, Issue: 06, pp-957-960, June-2014.
4. Haripriya S, Indumathi .S.Manikandan, "**Virtual Network Connection Using Mobile Phones**", COMPUSOFT, An International Journal of Advanced Computer Technology, ISSN:2320-0790, Vol.03, Issue: 06, pp-980-984, June-2014.
5. Nandhini. R, Pavithra. P, Abinaya. P and S.Manikandan, "**Information Technology Architectures for Grid Computing and Applications**", *International Journal of Advanced Research Computer Engineering and Technology*, ISSN:2278-1323, Vol.3, No.06, pp:2239-2242, June'2014.
6. Manikandan.S, ManikandaKumaran.K, Palanimurugan.S, Aravindan.S and Praveen Kumar.S, "**Detecting and Preventing Distributed Denial of Service (DDOS) Attacks using BOTNET Monitoring System**", International Journal of Engineering and Computer Science, ISSN:2319-7242, Vol.3, Issue.12, pp:9717-9720, December;2014.
7. Manikandan.S, ManikandaKumaran.K, Palanimurugan.S, Anandraj. P, V.M.Suresh and Raju.K, "**Clustering Approach for Downloading NEWS from Web**", MM-Journal of Management and Manufacturing & Services, International Society of Green, Sustainable Engineering and Management, Planning Commission Government of India, ISSN:2350-1480, Vol.02, Issue:22, pp-43-46, November-2015
8. Manikandan.S, "**Isay: Sms Service Using Arm**", International Journal of Applied Science Reports, Progressive Science Publications, E-ISSN: 2310-9440 / P-ISSN: 2311-0139, DOI: 10.15192/PSCP.ASR.2015. Vol.12 Issue.3, pp.105-109, 2015
9. Manikandan.S, "**Effective Nested Loop Reactive Join Algorithm for Multiple Relations on Input Data**", International Journal of Innovative Research in Computer Science and Engineering (IJRCSE), ISSN: 2394-6364, Volume – 1, Issue – 9, August 2015
10. J.Abinaya ,R.Ranjitha, S.Swetha and S. Manikandan, "**An Efficient Identity Based Group Key Distribution Scheme for Client Side Security in Web Applications**,"Einstein International Journal Organization (EIJO), Volume – 1, Issue – 1, Page No. 49-53
11. S. Manikandan, P.Suganya, K. Raju, P.Ponnaruvu, "**Object Removal and Error Concealment Using Mean Shift Algorithm in Free Moving Camera Videos**", EIJO Journal of Engineering, Technology And Innovative Research (EIJO-JETIR), ISSN: 2455 - 9172, Volume – 1, Issue – 2, May - June 2016, Page No. : 05 - 08.
12. Karthik. S, Dharmaraj. M, MustakAhamed. A, S. Manikandan, "**An Efficient Authentication Scheme for Mitigating Maliciously Dropped Packets**", Journal of Information Technology and Sciences, Vol.2, No.3, September, 2016
13. S. Manikandan, K. Raju, R. Lavanya, R. G. Gokila, "**Bluetooth based Face-to-Face Proximity Estimation on Smart Mobile**", Journal of Android and IOS Applications and Testing, Vol.2, Issue-

1,2017

pp-1-4,2017

14. S. Manikandan, K. Raju, R. Lavanya, R.Hemavathi, "Energy Efficiency Controls on Minimizing Cost with Response Time and Guarantee Using EGC Algorithm", *International Journal of Information Technology Insights & Transformations*, Vol. 3, No. 1, 2017.

International Conference : 10

1. S. Manikandan, K. ManikandaKumaran, S.Palanimurugan, N.Murali and V.M.Suresh, "RED: Mitigating Malevolent Packet Losses", ICRDICT-2015, EGS Pillay Engineering College, Nagapattinam, May-2015.
2. D.Vijayakumar, S. Manikandan and K. Parthasarathy. "ISAY: SMS Service Using ARM", ICRDICT-2015, EGS Pillay Engineering College, Nagapattinam, May-2015.
3. S. Manikandan, "Simulating Malicious Packet Losses Using Congestion Control and mitigation Method", ICRDICT-2015, EGS Pillay Engineering College, Nagapattinam, May-2015.
4. S. Manikandan and S.Pasupathy. "Data Streaming in Distributed Hybrid Cloud Platforms using NetSim", ICRDICT-2015, EGS Pillay Engineering College, Nagapattinam, May-2015.
5. S. Manikandan, K. ManikandaKumaran and Mr. S. Pasupathy, "Performance Analysis of Mobile Ad-Hoc Network Routing Protocols using Network Simulator – 2", IEEE-ICAET-2014, EGS Pillay Engineering College, Nagapattinam, May-2014.
6. S.Manikandan, K. ManikandaKumaran, N. Murali and Prof.B.SaravanaKumaran, "An Efficient Hybrid Clustering Approach for Downloading News from Web", ICIRET-2014, EGS Pillay Engineering College, Nagapattinam, May-2014.
7. Haripriya S, Indumathi and S.Manikandan, "Virtual Network Connection Using Mobile Phones", ICIRET-2014, EGS Pillay Engineering College, Nagapattinam, May-2014.
8. Nandhini. R, Pavithra. P, Abinaya. P and S.Manikandan, "Information Technology Architectures for Grid Computing and Applications ", ICIRET-2014, EGS Pillay Engineering College, Nagapattinam, May-2014.
9. S. Manikandan and K. ManikandaKumaran, "Detection of Vanishing point in Unstructured Environments", IEEE-ICRPET-2013, EGS Pillay Engineering College, Nagapattinam, March-2013.
10. Manikandan. S and Prof. Palaniappan. B, 2011, "Identifying Malevolent Packet losses using RED Method", IEEE-ICASM-2012, EGS Pillay Engineering College, Nagapattinam, March-2012.

National Conference : 10

1. SubashPriyanga, Suriya. P, Vidhya. K and Manikandan. S, "An Efficient Group key Transfer Protocol for Haring Information in WSN using IBC", National Conference on Recent Trends in Computer Science and Applications, SELP Publications, ISBN:978-93-80509-83-9, Dept. of CS, RA College for Women, Thiruvarur, September-2016
2. Ananth. R, Dinesh Kumar. R, Vigneshwaran. P and Manikandan.S, "An Adaptive Random Early Detection Method For Sensing Malevolent Packet Losses", National Conference on Information and Communication (NCIC'2015), K.Ramakrishnan College of Engineering, Trichy.
3. I.Chitra, S.Manimala, M.Priyadarshini and Manikandan.S, "An Adaptive Iris Image Segmentation Technique For Video Based Non-Cooperative Images Using Image Transformation", National Conference on Information and Communication (NCIC'2015), K.Ramakrishnan College of Engineering, Trichy.
- 4.U.Nivethitha, R.Vinitha, M.Mohana and Manikandan.S, "An Efficient LSB Pattern Matching In Spatial Domain For Securing Message Using Bio-Metric Method", ETIC'2015, M.Kumarasamy College of Engineering and Technology, Karur
5. Ananth. R, Dinesh Kumar. R, Vigneshwaran. P and Manikandan.S, "An Adaptive Random Early Detection Method For Sensing Malevolent Packet Losses", National Congress on Engineering, Technology. Management and Science, EGS Pillay Engineering College, Nagapattinam
6. I.Chitra, S.Manimala, M.Priyadarshini and Manikandan.S, "An Adaptive Iris Image Segmentation Technique For Video Based Non-Cooperative Images Using Image Transformation", National Congress on Engineering, Technology, Management and Science, EGS Pillay Engineering College, Nagapattinam
- 7.U.Nivethitha, R.Vinitha, M.Mohana and Manikandan.S, "An Efficient LSB Pattern Matching In Spatial Domain For Securing Message Using Bio-Metric Method", National Congress on Engineering, Technology, Management and Science, EGS Pillay Engineering College, Nagapattinam

8. Indhumathi. R, HariPriya. S and Manikandan.S, "Detecting and Preventing Distributed Denial of Service (DDOS) Attacks using BOTNET Monitoring System", CSI/ISTE Sponsored National Conference on NCASEM-2013. EGS Pillay Engg. College, Nagapattinam
9. Manikandan. S, Prof. Srinivasan. V and Prof. Palaniappan. B, 2012, "Combined Public Key Cryptography (IBC) for Client Side Security in Web Applications", National Conference on Networks, Information, Knowledge, Computing & Ontology (NIKCON'12), A.V.C college of engineering, Maliaduthurai, Tamilnadu, India, March 2012.
10. Manikandan. S and Prof. Palaniappan. B, 2011, "Identifying Malevolent Packet losses using Mitigation Method", AICTE Sponsored National Conference on Information System, Technology and its Applications(CISTA'11), A.V.C college of engineering, Maliaduthurai, Tamilnadu, India, September 2012

Proceedings

1. International Conference on Research and Development in Information and Communication Technology - 2015, ISBN: 978-93-84893-24-8
2. International Conference on Research and Development in Information and Communication Technology - 2016, ISBN: 978-93-84893-49-1
3. IEEE - International Conference on IoT and its Applications - 2017, ISBN: 978-1-5386-1698-7/17/\$31.00 ©2017 IEEE

FUNDING DETAILS

S.No	Name of the Project/Programme	Agency	Year	Amount (in Rs)
1	Science and Technology Capacity building for industrial needs	Tamil Nadu State Council for Science and Technology	2016-2017	1,00,000
2	Banking Financial Services and Insurance Unemployed Graduates	Tamil Nadu Skill Development Mission Corporation & ICT Academy	2015-2016	90,000
3	Popularization of Science Activities - Banking and financial Services for unemployed graduates in Nagapattinam Dt.	Tamil Nadu State Council for Science and Technology	2016-2017	25,000
4	TAHDCO Project - Training Programme for SC/ST School Teachers	TADHCO & ICT Academy	2017-2018	50,000
Consultancy Services				
S.No	Name of the Consultancy Service	Agency	Year	
1	National Literacy Assessment for School Students in Nagapattinam and Thiruvarur districts	Sify Technologies, Chennai	2015-2016	
2	SOF Examinations	Aptech Pvt Ltd, Mumbai	2015-2016	
3	Digital Literacy Programme Non-IT Candidates	Govt. of India & ICTACT	2015-2016	
4	Measuring of Computer Performance	Annai Computer's, Velankanni	2014-2015	
6	Virtual Network Computing	Oliver Academy, Vedharanyam	2014-2015	
Anna University approved FDTPs				
S.No	Sub.Code/Sub.Name	Year		
1	CS6660 - Compiler Design	2015-2016		
2	IT6006 - Data Analytics	2016-2017		

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DIRECTOR

PH: 9003725764
info@veitechnologies.com

10/07/2021

To

S. MANIKANDAN
HEAD OF THE DEPARTMENT
DEPT OF IT
EGSPILLAY ENGINEERING COLLEGE
NAGAPATTINAM

Sir

Sub: Consultancy Work - Reg

We discussed with our industry people and accept your consultancy work of Captcha based authentication for websites. We planned to come to your campus on 11/07/2021 for discussing the consultancy work. I hope this work very important for us and it will reduce the human power.

Thanking you

Kind regards

A handwritten signature in black ink, appearing to be 'Siva', written in a cursive style.

Siva
(Director)

28

MINUTES OF MEETING

**EGS Pillay Engineering College, Nagapattinam
Department of IT**

Minutes of Meeting

Consultancy Work	
Title	Captcha based authentication for websites
Meeting No.	01
Date	11/07/2021
No. of Attendees	04
Venue	Department of IT -Faculty Room

Members Present

S.No	Name of the Members	Designation /Dept
01	V.M. Suresh	AP/IT
02	S. Manikandan	AP/IT
03	K. Manikandakumaran	AP/IT
04	Siva	Director , Vei Technologies Chennai.

Points Discussed

S.No	Points
The following points discussed in project meeting	
01	Welcoming the company people
02	Discussed project details with company people
03	Discussed with project details like objective, duration, project status monitoring and explained prototype model for evaluation process.
04	Explained various levels in the sense of hardware and software profile and outcomes.
05	Signed Consultancy Assignment Proposal and Agreement form

**Minuted by: Prof.V.M.SURESH
Copy to: Department file and Company**


HOD/IT
S. MANIKANDAN
 Head of Department
 Department of Information Technology,
 E.G.S. Pillay Engineering College,
 Nagapattinam - 611002

MINUTES OF MEETING

**EGS Pillay Engineering College, Nagapattinam
Department of IT**

Minutes of Meeting

Consultancy Work	
Title	Captcha based authentication for websites
Meeting No.	02
Date	11/08/2021
No. of Attendees	04
Venue	Department of IT

Members Present

S.No	Name of the Members	Designation/Dept
01	V.M. Suresh	AP/IT
02	S. Manikandan	AP/IT
03	K. Manikandakumaran	AP/IT
04	Siva	Director . Vei Technologies Chennai

Points Discussed

S.No	Points
The following points discussed in project meeting	
01	Welcoming the company people
02	Discussed project details with company people
03	Minutes of last meeting reviewed
04	Arranged lab for testing components with Tech Asst.
05	Discussed project planning status requirements, designing prototype, completed components and documentation part.

Minuted by: Prof.V.M.SURESH
Copy to: Department file and Company


 HOD/IT
S. MANIKANDAN
 Head of Department
 Department of Information Technology,
 E.G.S. Pillay Engineering College,
 Nagapattinam - 611002

28

MINUTES OF MEETING

**EGS Pillay Engineering College, Nagapattinam
Department of IT**

Progress Analysis Meeting

Consultancy Work – Progress Analysis	
Title	Captcha based authentication for websites
Meeting No.	03
Date	10/11/2021
No. of Attendees	04
Venue	Vei Technologies -Director Chamber


Members Present

S.No	Name of the Members	Designation/Dept
01	V.M. Suresh	AP/IT
02	S. Manikandan	AP/IT
03	K. Manikandakumaran	AP/IT
04	Siva	Director , Vei Technologies Chennai

Points Discussed

S.No	Points
The following points discussed in project meeting	
01	Discussed with major and minor problem displayed.
02	Recommendation and Action taken points are discussed.
03	Discussed with details of further work

Minuted by: Prof.V.M.SURESH
Copy to: Department file and Company


S. MANIKANDAN
Head of Department
Department of Information Technology,
E.G.S. Pillay Engineering College,
Nagapattinam - 611002

MINUTES OF MEETING

**EGS Pillay Engineering College, Nagapattinam
Department of IT**

Minutes of Meeting

Consultancy Work – Progress Analysis	
Title	Captcha based authentication for websites
Meeting No.	04
Date	02/12/2021
No. of Attendees	04
Venue	Vei Technologies -Director Chamber


Members Present

S.No	Name of the Members	Designation/Dept
01	V.M. Suresh	AP/IT
02	S. Manikandan	AP/IT
03	K. Manikandakumaran	AP/IT
04	Siva	Director . Vei Technologies Chennai

Points Discussed

S.No	Points
The following points discussed in project meeting	
01	Discussed with major and minor problem displayed.
02	Recommendation and Action taken points are discussed.
03	Discussed with details of further work

Minuted by: V.M.SURESH
Copy to: Department file and Company


HOD/IT
S. MANIKANDAN
Head of Department
 Department of Information Technology,
 E.G.S. Pillay Engineering College,
 Nagapattinam - 611002

30



DIRECTOR

(+91) - 9003775764
veitechnologies.com

01/06/2022

To

S. MANIKANDAN
HEAD OF THE DEPARTMENT
DEPT OF IT
EGSPILLAY ENGINEERING COLLEGE
NAGAPATTINAM

Sir

Sub: Consultancy Work - Reg

We are happy to inform you that we got very good result from your consultancy work. After implement this system security of transactions are tremendously increased. The coordinators are appreciated for completing this wonderful work our concern. Herewith I enclosed a copy of cheque for payment details for your reference. I hope this work nice experience for us and in future you may increase number iteration as more as possible.

Thanking you

Kind regards

A handwritten signature in black ink, appearing to be 'Siva', written in a cursive style.

Siva
(Director)



E. G. S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.
(An ISO 9001:2008 Certified Institution)
(Approved by AICTE, New Delhi, Approved by Govt. of Tamil Nadu)
(Affiliated to Anna University Chennai)



DEPARTMENT OF INFORMATION TECHNOLOGY

05/06/2022

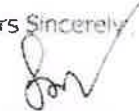
To Director,
Vei Technologies
Chennai

Sir
Sub: Consultancy Work – Reg

Greetings from EGS Pillay Engineering College, Nagapattinam

We are very much pleased to accept your positive response and work process appreciation and we take your consideration in our future reference. Also we have received your cheque. Here with we have attached the invoice detail for your reference.

Thanking You

Yours Sincerely

S. MANIKANDAN



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E. G. S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.
(An ISO 9001:2008 Certified Institution)
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DEPARTMENT OF INFORMATION TECHNOLOGY

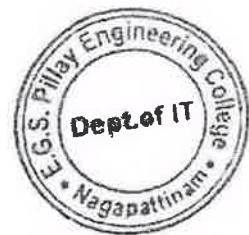
05/06/2022

INVOICE

S.No	Salaries & Wages	Amount (in Rs.)
1.	Preprocessing and Component Preparation	75,000
2.	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	1,00,000
3.	Travel	10,000
4.	Institutional overhead charge	15,000
5.	Total Cost of Project	2,00,000

Yours Sincerely

S. MANIKANDAN





33

DIRECTOR

9003773764
veitech@veitech.com

To

S. MANIKANDAN
HEAD OF THE DEPARTMENT
DEPT OF IT
EGSPILLAY ENGINEERING COLLEGE
NAGAPATTINAM

Sir

Sub: Consultancy Work - Reg

We are happy to inform you that Captcha based authentication for websites consultancy work successfully running and it improves the security of our online transaction. It was very good experience for us and got good product from your esteemed institution. Also the coordinators are worked very well.

Thanking you

Kind regards

A handwritten signature in black ink, appearing to be 'Siva', written in a cursive style.

Siva

Director,
Vei Technologies
Chennai

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EGS Pillay Engineering College, Nagapattinam
Department of Information Technology

Utilization Certificate

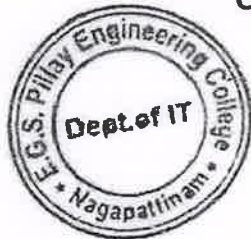
Name of the Project	Captcha based authentication for websites
Name of the Coordinator(s)	S.*Manikandan K. Manikandakumaran V.M.Suresh
Name of the Agency	Director , Vei Technologies , Chennai.
Type of Project	Consultancy work
Duration	AUG 2021 - JULY 2022
Project Cost	Rs 200,000

This certificate is an acknowledgment of the expenditure incurred in executing the consultancy work mentioned above. The accounts are duly submitted to the R&D Cell and verified by the principal.

S.No	Itemized list of expenses Incurred	Amount (Rs)
1.	Preprocessing and Component Preparation	75,000
2.	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	80,000
3.	Travel	10,000
4.	Institutional overhead charges	15,000
	Total expenses incurred	1,80,000
	Income generated through Consultancy	20,000



Name and Signature of the
Coordinator



Name and Signature of
Head of Institution
With seal

Dr. S. RAMABALAN, M.E., Ph.D.,
Principal
EGS Pillay Engineering College
Nagapattinam - 611 002





E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.
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(Affiliated to Anna University Chennai)



To



SALYA
construction

20, Nadavar East Road,
Nagapattinam - 611109
Tamilnadu.

Name of Work: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Project Estimation value: 1.66 Cores

CONSTRUCTION OF SIDHAR KOVIL SCHOOL BUILDING

Index

S. No.	Description	Page No.
1.	B uilding Planning Drawing, Designing Drawing, Estimation & costing	1
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7.	C lient payment receiving details	78
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(Affiliated to Anna University Chennai)



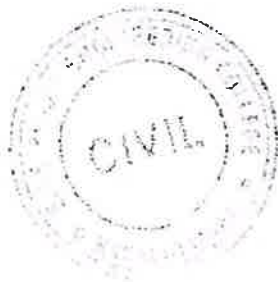
Consultancy services
(Department of Civil Engineering)


Ref. No. EGSPEC/MT/4084/2020

Date: 06.02.2020

1. Name of the Client : **The SALYA Construction.,**
20, Nadayar East Road,
Nagapattinam - 611109
Tamilnadu
2. Client Reference No : SALYA/EGS/NGT/2020-21/002 dated 30.01.2020
3. Project : Construction of Sidhar Kovil School Building, Vadakku Poigainallur,
Nagapattinam.
4. Sample details : UDS sample Soil [2 Nos. Location-A & Location- B]
5. Sample received : 31.01.2020
6. Sample test date : 01.02.2020
7. Test conducted by : Mr. A. Arjunan. Assistant Professor.
8. Test verified by : Dr.R, Sivakumar, Professor.

Encl: Test Report




Head of the Dept.
Dr. R. Sivakumar, Professor
Department of Civil Engineering
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.



E.G.S. PILLAY ENGINEERING COLLEGE
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(Affiliated to Anna University Chennai)



Consultancy services
(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4082/2020

Date: 06.02.2020

SAFE BEARING CAPACITY OF SOIL

(IS: 6403 - 1981)

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Date of Sample: 31.01.2020

Date of Tested: 01.02.2020

Location- A

<u>A</u>		<u>ABSTRACT</u>	
1	Natural ground level	M	: 0.000
2	Foundation level	M	: 2.100
3	Depth of foundation	M	: 2.100
4	Grain size Analysis:		
	Gravel	%	: 0.0
	Coarse sand	%	: 3.2
	Medium sand	%	: 7.5
	Fine sand	%	: 27.5
	Silt & clay	%	: 61.8
5	Atterberg's Limits:		
	Liquid limit	%	: 31.22
	Plastic limit	%	: 15.25
	Plasticity Index		: 15.97
6	Soil (IS) classification		: CH
7	Natural moisture content	%	: 17.11
8	Bulk density	g/cc	: 1.855
	Dry density	g/cc	: 1.584
9	Shear parameters		
	Cohesion (C)	Kg/cm ²	: 0.01
	Angle of internal friction (ϕ)	°	: 24.32
10	Net Ultimate safe bearing capacity (q_{nu})	T/Sqm	: 46.99
11	Safe Bearing Capacity (q_{us})	T/Sqm	: 15.7

154 KN/sq.m

Supervised by

Note:

- Any correction without attestation will invalidate this certificate
- The results relate only to the samples tested.



Head of the Dept.
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Conti.,



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B FORMULA AS PER IS:6403-1981

Net ultimate bearing capacity

$$q_{nu} = C N_c d_c s_c i_c + g D (N_q - 1) d_q s_q i_q + 0.5g B N_g d_g s_g i_g W'$$

N_c, N_q, N_g = Bearing capacity factors

g = Unit weight of soil below foundation base.

D = Depth of foundation

W' = Water table correction factor

S_c, S_q, S_g = Shape factor

For Strip footing

$$S_c, S_q, S_g = 1$$

For Rectangular footing

$$S_c = 1 + 0.2 B/L, S_q = 1 + 0.2 B/L \text{ \& } S_g = 1 - 0.4 B/L$$

For Square footing

$$S_c = 1.3, S_q = 1.2 \text{ \& } S_g = 0.8$$

For Circular footing

$$S_c = 1.3, S_q = 1.2 \text{ \& } S_g = 0.6$$

d_c, d_q, d_g = Depth-factor

(Note: Correction factor is to be applied only when backfilling is done with proper compaction)

$$d_c = 1 + 0.2 \times (D_f / B) \tan (45^\circ + \phi' / 2)$$

$$d_q = d_g = 1 \text{ for } \phi' < 10^\circ$$

$$d_q = d_g = 1 + 0.1 \times (D_f / B) \tan (45^\circ + \phi' / 2) \text{ for } \phi' > 10^\circ$$

i_c, i_q, i_g = Inclination factor for the load inclined at an angle to the vertical.

$$i_c = i_q = (1 - \alpha^\circ / 90^\circ)^2$$

$$i_g = (1 - \alpha^\circ / \phi')^2$$

α° = inclination of the load with the vertical

Supervised by

Note:

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2. The results relate only to the samples tested.



Head of the Dept.
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
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E.G.S. Pillay Engineering College,
Nagapattinam.

Conti.,



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C. ANALYSIS

Type of failure : General shear failure

1	Assume Cohesion C	c	: 0.10	Kg/Sqm	=: 1.0	T/Sqm
2	Angle of internal friction	ϕ	: 24.32			
3	Width of foundation	B	: 1.30	M		
4	Length of foundation	L	: 1.30	M		
5	Bearing capacity factors					
			: 24.32	°		
		N_c	: 19.92		14.83	20.72
		N_q	: 10.08		6.40	10.66
		N_g	: 10.13		5.39	10.88
6	Shape factors					
		S_c	: 1.20			
		S_q	: 1.20			
		S_g	: 0.60			
7	Depth factors					
8	Inclination factors	$d_c = d_q = d_g$: 1			
9	Water table correction factor	$i_c = i_q = i_g$: 1			
10	Unit weight of soil	w'	: 0.3			
11	Depth of foundation	g	: 1.855	g/cc	=: 1.855	T/Cum
12	Assume width	D	: 2.100	M		
		B	: 1.3	M		
13	Net Ultimate bearing capacity					
		$C N_c d_c s_c i_c$	(a) : 2.34	T/Sqm		
		$g D (N_q - 1) d_q s_q i_q$	(b) : 42.45	T/Sqm		
		$0.5 g B N_g d_g s_g i_g W'$	(c) : 2.20	T/Sqm		
		q_{nu}	a+b+c : 46.99	T/Sqm		
14	Factor of safety	F_s	: 3.0			
15	Safe bearing capacity q_{ds}	q_{nu} / F_s	: 15.66	T/Sqm		

As Per IS:6403-1981

	20	25
	14.83	20.72
	6.40	10.66
	5.39	10.88

154 KN/sq.m

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Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MT/4083/2020

Date: 06.02.2020

SAFE BEARING CAPACITY OF SOIL

(IS: 6403 - 1981)

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Date of Sample: 31.01.2020

Date of Tested: 01.02.2020

Location- A

A	ABSTRACT		
1	Natural ground level	M	: 0.000
2	Foundation level	M	: 2.000
3	Depth of foundation	M	: 2.000
4	Grain size Analysis:		
	Gravel	%	: 0.0
	Coarse sand	%	: 3.2
	Medium sand	%	: 7.2
	Fine sand	%	: 28.6
	Silt & clay	%	: 61.0
5	Atterberg's Limits:		
	Liquid limit	%	: 30.98
	Plastic limit	%	: 14.55
	Plasticity Index		: 16.43
6	Soil (IS) classification		: CH
7	Natural moisture content	%	: 18.26
8	Bulk density	g/cc	: 1.849
	Dry density	g/cc	: 1.564
9	Shear parameters		
	Cohesion (C)	Kg/cm ²	: 0.01
	Angle of internal friction (ϕ)	°	: 24.15
			[24° 9']
10	Net Ultimate safe bearing capacity (q_{nu})	T/Sqm	: 44.13
11	Safe Bearing Capacity (q_{ds})	T/Sqm	: 14.7

144 KN/sq.m

Supervised by
A.M. 06.02.2020

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B FORMULA AS PER IS:6403-1981

Net ultimate bearing capacity

$$q_{nu} = C N_c d_c s_c i_c + g D (N_q - 1) d_q s_q i_q + 0.5g B N_g d_g s_g i_g W'$$

N_c, N_q, N_g = Bearing capacity factors

g = Unit weight of soil below foundation base.

D = Depth of foundation

W' = Water table correction factor

S_c, S_q, S_g = Shape factor

For Strip footing

$S_c, S_q, S_g = 1$

For Rectangular footing

$S_c = 1 + 0.2 B/L, S_q = 1 + 0.2 B/L$ & $S_g = 1 - 0.4 B/L$

For Square footing

$S_c = 1.3, S_q = 1.2$ & $S_g = 0.8$

For Circular footing

$S_c = 1.3, S_q = 1.2$ & $S_g = 0.6$

d_c, d_q, d_g = Depth-factor

(Note: Correction factor is to be applied only when backfilling is done with proper compaction)

$d_c = 1 + 0.2 \times (D_f / B) \tan (45^\circ + \phi' / 2)$

$d_q = d_g = 1$ for $\phi' < 10^\circ$

$d_q = d_g = 1 + 0.1 \times (D_f / B) \tan (45^\circ + \phi' / 2)$ for $\phi' > 10^\circ$

i_c, i_q, i_g = Inclination factor for the load inclined at an angle to the vertical.

$i_c = i_q = (1 - \alpha^\circ / 90^\circ)^2$

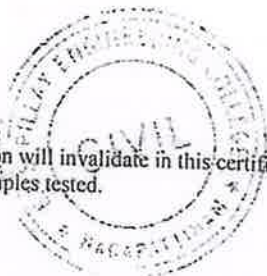
$i_g = (1 - \alpha^\circ / \phi')^2$

α° = inclination of the load with the vertical

Supervised by

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C. ANALYSIS

Type of failure : General shear failure

1	Assume Cohesion C	c	: 0.10	Kg/Sqm	=: 1.0	T/Sqm
2	Angle of internal friction	ϕ	: 24.15			
3	Width of foundation	B	: 1.30	M		
4	Length of foundation	L	: 1.30	M		
5	Bearing capacity factors					
			: 24.15	°		
		N_c	: 19.72		20	25
		N_q	: 9.94		14.83	20.72
		N_g	: 9.95		6.40	10.66
6	Shape factors				5.39	10.88
		S_c	: 1.20			
		S_q	: 1.20			
		S_g	: 0.60			
7	Depth factors					
8	Inclination factors	$d_c = d_q = d_g$: 1			
9	Water table correction factor	$i_c = i_q = i_g$: 1			
10	Unit weight of soil	w'	: 0.3			
11	Depth of foundation	g	: 1.849	g/cc	=: 1.849	T/Cum
12	Assume width	D	: 2.000	M		
		B	: 1.3	M		
13	Net Ultimate bearing capacity					
		$C N_c d_c s_c i_c$	(a) : 2.32	T/Sqm		
		$g D (N_q - 1) d_q s_q i_q$	(b) : 39.65	T/Sqm		
		$0.5 g B N_g d_g s_g i_g W'$	(c) : 2.15	T/Sqm		
14	Factor of safety	q_{nu}	$a+b+c$: 44.13	T/Sqm		
		F_s	: 3.0			
15	Safe bearing capacity q_{ds}	q_{nu} / F_s	: 14.71	T/Sqm		

As Per IS:6403-1981

144 KN/sq.m

Supervised by

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Consultancy services
(Department of Civil Engineering)

Ref. No. EGSPEC/MT/4095/1/2020

Date: 12.02.2020

CONCRETE MIX DESIGN [M25 RCC]
(IS 10262-2019 & IS 456-2000)

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611109
Tamilnadu.

Name of Work: : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2020-21/002 DATED 30.01.2020

Requested on : 03.02.2020

Concrete Mix Design date: 11.02.2020

SOURCES OF MATERIALS

1	Coarse aggregate: 20mm & 12.5mm	: Best Blue Metal, Karur
2	Fine aggregate: M-Sand	: Best Blue Metal, Karur
3	Cement brand	: Dalmia Cement
4	Admixture brand	: Sika India Pvt Ltd.,

DESIGN STIPULATIONS

1	Grade Designation	: M25 RCC
2	Type of cement	: OPC-53 Grade
3	Max. Nominal Size of aggregate	: 20mm
4	Minimum Cement Content	: 320 Kg/cu.m
5	Maximum Water cement ratio	: 0.45
6	Workability	: 25 - 75mm
7	Exposure conditions	: Moderate
8	Maximum temperature of concrete at the time of placing	: 40°C
9	Method of transporting / placing	: Transit mixture / Self Loading Mixer
10	Early age strength requirement (if reqd.)	: Not Applicable
11	Type of aggregate	: Angular
12	Maximum Cement content	: 450 Kg/Cum
13	Type of admixture	: Super plasticizer cum retarder

A. M. 12.2.2020



Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering



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TEST DATA FOR MATERIALS

Proportion of Coarse aggregate : Fine aggregate	
1	% of C/A to the total weight of aggregate : 58%
2	% of F/A to the total weight of aggregate : 42%
Proportions in C/A:	
3	% of 20 mm : 45%
4	% of 12.5 mm : 65%
5	Specific gravity of 20 mm : 2.833
6	Specific gravity of 12.5 mm : 2.817
7	Combined specific gravity of C/A : 2.824
8	Water absorption of 20 mm : 0.365%
9	Water absorption of 12.5 mm : 0.478%
10	Free surface moisture of 20 mm : 0.00%
11	Free surface moisture of 12.5 mm : 0.00%
12	Specific gravity of M-Sand : 2.727
13	Water absorption of M-Sand : 1.023%
14	Free surface moisture of M-Sand : 1.20%
15	Specific Gravity of Cement : 3.148
16	Specific Gravity of Admixture : 1.18

MIX CALCULATION

1	Target Mean strength : 31.60 N/mm ²
2	Water Cement ratio : 0.44
3	Mass of cement : 370.00 Kg
4	Mass of water : 163.000 Kg
5	Dosage of chemical admixture : 0.70%
6	Mass of chemical admixture : 2.590 Kg

AM 12-2-2020



Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering.



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<u>VOLUME OF CONCRETE</u>		:	1.000 Cum
1	Volume of cement	:	0.118 Cum
2	Volume of Water	:	0.163 Cum
3	Volume of Chemical admixture	:	0.002 Cum
4	Volume of all-in-aggregate	:	0.717 Cum
5	Mass of coarse aggregate	:	1175 Kg
	Mass of 20mm	:	529 Kg
	Mass of 12.5mm	:	646 Kg
6	Mass of Fine aggregate (M-Sand)	:	822 Kg

MIX PROPORTION

Ingredients	Per m ³ in SSD Condition	Per bag of cement in SSD Condition
	Kg.	Kg.
Cement	370	50.0
Water	163	22.0
Fine aggregate (M-Sand)	822	97.7
20mm	529	62.9
12.5mm	646	76.8
Chemical admixture	2.590	0.35

Proportion:	Cement	F/A	C/A	Water Cement ratio
	1		2.22	3.18

Slump Retention

	Initial	30'	60'	90'
Slump observation(mm)	168,170	142,135	108,105	72,70
Date of Casting	11.02.2020			
No. of Cubes casted	12 No's			

Temperature of Mix: 31.2 °C

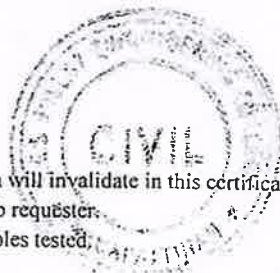
Observations: Mix is cohesive

Workability: Good

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Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MT/4275/2021

Date: 14.01.2021

COMPRESSIVE STRENGTH OF CONCRETE CUBES [RCC M25]

[As per IS:516]

To

The SALYA Construction.,

20, Nadavar East street,

Nagapattinam - 611109

Tamilnadu.

Name of Work: : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2021-22/005 DATED 07.01.2021

Part of Structure : Column C1

Grade of Concrete : RCC M25

Characteristic Compressive Strength: 25 N/mm²

Date of Cubes casting: 07.01.2021

Date of Testing (7 days): 14.01.2021

Size of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225cm²

S. No.	Cube No.	Weight of Cube g	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm ²)	Average Compressive Strength (N/mm ²)	Remarks
1	1	8479	2.512	7	430	19.11	19.85	
2	2	8533	2.528	7	440	19.56		
3	3	8437	2.500	7	470	20.89		

Average compressive Strength: **19.85** N/mm² [7 days: \geq 16.75 N/mm²]

7 days Cubes Compressive Strength test results are within the limits.

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Head of the Dept.

Dr.S. Anand Kumar Varma, M.E., Ph.D.,

Professor & Head

Dept. of Civil Engineering

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Tamilnadu



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Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MT/4275/2021

Date: 14.01.2021

COMPRESSIVE STRENGTH OF CONCRETE CUBES [RCC M25]

[As per IS:516]

To

The SALYA Construction.,

20, Nadavar East street,

Nagapattinam - 611109

Tamilnadu.

Name of Work : Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Client Reference : SALYA/EGS/NGT/2021-22/005 DATED 07.01.2021

Part of Structure : Column C1

Grade of Concrete : RCC M25

Characteristic Compressive Strength: 25 N/mm²

Date of Cubes casting: 07.01.2021

Date of Testing (28 days): 04.02.2021

Size of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225cm²

S. No.	Cube No.	Weight of Cube g	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm ²)	Average Compressive Strength (N/mm ²)	Remarks
1	1	8561	2.537	28	680	30.22	28.59	
2	2	8492	2.516	28	610	27.11		
3	3	8509	2.521	28	640	28.44		

Average compressive Strength: 28.59 N/mm² [28 days: ≥ 25 N/mm²]

28 days Cubes Compressive Strength test results are within the limits.

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Nagapattinam - 611 002.

Tamilnadu

Rtn. MPHF. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/001

Date: 21.01.2020

To

The Head of the Department.,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project:Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of SidharKovil School Building, Vadakku Poigainallur, Nagapattinam.

Dear Sir,

Here with please kindly send me the quotation for **Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.** As we discussed, the required Soil investigation, building planning & Estimation, Material testing along with concrete Mix design, Concrete cubes compressive strength, Field inspection and overall consultancy charges.

This is for your kind information.

Thanking you and assuring of our best services at all times.

For SALYA CONSTRUCTION

Authorised Signatory

Builders

Planners

Architects

20, Naduvar East Street, Nagapattinam - 611 001. Tamil Nadu, India. Ph: 04365 241315, Cell: 98424 41315.

www.salya.in

salyaconstruction@yahoo.com

Rtn. MPHF. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/002

Date: 30.01.2020

To

The Head of the Department,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project: Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Acceptance - Requesting quotation for Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Reference: EGSPEC/MTR/4079/2020 Dated 27.01.2020

Dear Sir,

Here with please kindly send me the quotation for **Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.** As we discussed, the required Soil investigation, building planning & Estimation, Material testing along with concrete Mix design, Concrete cubes compressive strength, Field inspection and overall consultancy charges.

As we discussed, we accepted your term and conditions, please kindly proceed required further activities.

This is for your kind information.

Thanking you and assuring of our best services at all times.

For SALYA CONSTRUCTION

Authorised Signatory

Builders

Planners

Architects

20, Naduvar East Street, Nagapattinam - 611 001, Tamil Nadu, India. Ph: 04365 241315, Cell: 98424 41315.
www.salya.in salyaconstruction@yahoo.com

Rtn. MPHF. P.Sundaravelu, B.E.,
Consulting Civil Engineer.



Letter No.: SALYA/EGS/NGT/2020-21/003

Date: 31.01.2020

To

The Head of the Department,
Department of Civil Engineering,
EGS Pillay Engineering College,
Nagapattinam.

Project: Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Subject: Requesting Soil Investigation (SBC Value) for Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

Dear Sir,

Here with please kindly Requesting Soil Investigation (SBC Value)for Construction of SidharKovil School Building, VadakkuPoigainallur, Nagapattinam.

This is for your kind information.

Thanking you and assuring of our best services at all times.

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E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

Accredited by NAAC with 'A' Grade

Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/4079/2020

Date: 27.01.2020

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611002
Tamilnadu

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Reference: SALYA/EGS/NGT/001 Dated: 21.01.2020


Respected Sir,

You have requested quotation based on discussion as for proposed Siddhar Kovil School Building @ Nagapattinam the following details evaluated.

1. Soil Investigation
2. Building Planning, Designing, Estimation and Consultancy charges
3. Material testing along with concrete Mix design
(Materials- Coarse Aggregate: 40mm, 20mm, & 12.5mm
Fine Aggregate: M-Sand & P-Sand
Water, Cement and Admixture
Bricks: Fly ash Bricks
Steel: TMT Bars Fe-500
4. Concrete Cubes Compressive strength charges
5. Field Inspection charges / Consultancy

Here with as we discussed, the above-mentioned Consultancy / Testing charges value is 6.50% made by the approximant project total Estimation value. [GST Excluding]

For EGSPEC


Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head

Head of the Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Encl: As stated above

Received




E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

Accredited by NAAC with 'A' Grade

Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/4097/2020

Date: 10.03.2020

QUOTATION

To
The SALYA Construction.,
20, Nadavar East street,
Nagapattinam - 611002
Tamilnadu.

Project: Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Subject: Requesting quotation for Construction of Sidhar Kovil School Building, Vadakku Poigainallur, Nagapattinam.

Reference: SALYA/EGS/NGT/002 Dated: 30.01.2020

SALYA/EGS/NGT/003 Dated: 31.01.2020

Respected Sir,

You have requested quotation based on discussion as for proposed Siddhar Kovil School Building @ Nagapattinam the following details evaluated.

1. Soil Investigation
2. Building Planning, Designing, Estimation and Consultancy charges
3. Material testing along with concrete Mix design
(Materials- Coarse Aggregate: 40mm, 20mm, & 12.5mm
Fine Aggregate: M-Sand & P-Sand
Water, Cement and Admixture
Bricks: Fly ash Bricks
Steel: TMT Bars Fe-500
4. Concrete Cubes Compressive strength charges
5. Field Inspection charges / Consultancy

Received
Emmanuel

For EGSPEC Consulting Authorized persons

Dr. R.Sivakumar, (Prof/Civil)

A.Arjunan, Asso.Prof/Civil

+91-9443533554

+91-9791268159

Email: siva7570@gmai.com

Email: arjunan86@gmail.com

10-3-20
S. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
S. Pillay Engineering College,
Nagapattinam.



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

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Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Here with as we discussed, the following Consultancy / Testing charges are evaluated

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lakhs rupees only)		
		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
GST	CGST	97,110.00
	SGST	97,110.00
	Total Charges	12,73,220.00
Amount in Words: Twelve lakhs seventy-three thousand two hundred twenty rupees only		

1st term, 2nd term & 3rd term to be release as we discussed, by the year of every quarterly.

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lakhs rupees only)		
I-TERM PAYMENT		
		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (1 st term)	3.00 % of Estimation value	4,98,000.00
GST	CGST (9%)	44,820.00
	SGST (9%)	44,820.00
	Total Charges	5,87,640.00
Amount in Words: Five lakhs eighty-seven thousand six hundred fourty rupees only		

10.13.22
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Received
Emmanuel



E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)

Nagapattinam - 611 002, Tamilnadu, India.

Provisionally Accredited by NBA (CSE, EEE, Mech, IT, ECE, Civil)

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Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi

An ISO 9001 : 2015 Certified Institution

Website: www.egspec.org, Email: principal@egspec.org, Ph: (04365) 251112, Fax: (04365) 251114

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lac rupees only)

II - TERM PAYMENT

		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (2 nd term)	2.00 % of Estimation value	3,32,000.00
GST	CGST (9%)	29,880.00
	SGST (9%)	29,880.00
Total Charges		3,91,760.00

Amount in Words: Three lakhs ninety-one thousand seven hundred sixty rupees only

Total Project Estimation Value (-): 16,600,000.00 (One Core sixte-six lac rupees only)

III - TERM PAYMENT

		Amount (Rs.)
Consultancy / Testing Charges	6.50 % of Estimation value	10,79,000.00
Consultancy / Testing Charges (3 rd term)	1.50 % of Estimation value	2,49,000.00
GST	CGST (9%)	22,410.00
	SGST (9%)	22,410.00
Total Charges		2,93,820.00

Amount in Words: Two lakhs ninety-three thousand eight hundred twenty rupees only

The required Soil investigation, Materials sampling / testing already completed. The Building Planning, Drawing Designing and Estimation works in completion stage. As we discussion, Please kindly release as earliest advance of I-term payment value.

For EGSpec

Dr. R. SIVAKUMAR, Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam.

Received
Emmanuel

Terms & Conditions:

Payment & Terms: 1st term, 2nd term & 3rd term to be release as we discussed, by the user of

VALID FOR THREE MONTHS ONLY

11012020

DDMMYY

OR ORDER



ICICI Bank

NAGAPATTINAM Branch
P.B.No.3,40, Netai South Street, Nagapattinam - 611 001.
RTGS / NEFT / IFSC Code : ICIC0006994

Pay Roadd. consaltory, E.G.S.Pillay Engineering College, Nagapattinam

Rupees Five lakhs Eighty Seven thousand Six hundred and forty only

₹ 5,87,640/-

A/c No. 609405009795

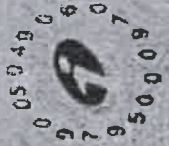
SALYA CONSTRUCTION

AUTHORISED SIGNATORIES

Please sign here

CABUS CBS
BUSINESS BANKING : CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India

11/3/21



⑈000970⑈ 611229002⑈ 009795⑈ 29



PRIVILEGE

VALID FOR THREE MONTHS ONLY

NAGAPATTINAM Branch
P.O. No. 5, 40, Neele, South Street, Nagapattinam - 611 401.
RTGS / NEFT / IFS Code : ICIC006094

03032021

DDMMYY

OR ORDER

Pay Ram D. Consultancy, E.A.S. Pillay Engineering College, Nagapattinam.
Rupees Three Lacks, ninety one Thousand Seven hundred
and sixty only.

₹ 3,91,760/-

A/c No. 609405009795

CABUS CBS
BUSINESS BANKING : CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India

11/3/21

SALYA CONSTRUCTION



AUTHORISED SIGNATORIES

Please sign above

⑈000984⑈ 611229002⑈ 009795⑈ 29

ICICI Bank

NAGAPATTINAM Branch
P.B.No.5,40, Meela South Street, Nagapattinam - 611 001.
RTGS / NEFT / IFSC Code : ICIC0006094



VALID FOR THREE MONTHS ONLY

23022022
DDMMYY

Pay Ram D CoSultancy, E.G.S Pillay Engineering College, Nagapattinam OR ORDER

Rupees Two lakhs Thirty thousand Eight hundred
and twenty only

₹ 2,93,820/-

Ac No. 609405009795

SALYA CONSTRUCTION

AUTHORISED SIGNATORIES

Please sign above

CABUS CBS
BUSINESS BANKING : CURRENT ACCOUNT
Payable at par at all branches of ICICI Bank Limited in India

11/3/21



⑈001006⑈ 611229002⑈ 009795⑈ 29

SIDHAR KOVIL SCHOOL BUILDING CONSTRUCTION PHOTOS

Location: Construction of Sidhar Kovil Building, Vadakku Poigainallur, Nagapattinam



CONSULTANCY PROJECT

ON

“ERP”

WORK DONE BY

Dr.J.VANITHA

PROFESSOR/HOD/MCA

Mrs.C.MALLIKA

ASSOCIATE PROFESSOR

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

E.G.S PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611 002,

TAMIL NADU

<http://www.egspec.org>

Ph: 04365 - 251112

CUSTOMER ADDRESS

D. G. GOVERNMENT ARTS COLLEGE FOR WOMEN

Dharumapuram Road

Mayiladuthurai

Nagapattinam, Tamil Nadu 609001

S. No	DETAILS	PAGE NO.
01	Requisition Letter to College	1
02	Institution Profile	2
03	Department Profile	4
04	Acceptance Letter from College	6
05	Project Proposal	7
06	Project Coordinator Details – Appendix - I	8
07	Project Review	9
08	Certificate from Company and Payment Details	12

1. INSTITUTION PROFILE

E.G.S Pillay Engineering College is a pioneering Engineering College, established in the year 1995, at Nagapattinam, which is a typical rural and backward area of Tamil Nadu. The institution was created by Late.G.S.Pillay. He was born on 2nd January, 1930 in a poor family. He was deprived of education due to his family circumstance. He went to Seychelles when he was 15 years old in search of employment for his livelihood. The E.G.S Pillay Engineering College, Nagapattinam was the first institution established by Mr.G.S.Pillay in the year 1995 aiming at providing world class education in engineering, fostering industrial prosperity and aiding the socio-economic development of the nation at large. The institution was affiliated to Bharathidasan University, Trichy during the years 1995 to 2006 and afterwards the affiliation is being accorded by the Anna University.

The college is located in the significant pilgrimage zone of south India covering Velankanni, Nagore and neighbour state Karaikal-Thirunallar. It is situated close to East Coast Road (ECR) between Karaikal and Nagapattinam and 2 km from Nagore. The nearest Railway station is Nagapattinam which has direct link with Chennai and Trichy. The nearest airport is Trichy which is 120 km away and that of Chennai is 350 km away.

The college is stepping into 19th year of excellent service in the year of 2014. Over these years, the college has attained commendable growth by developing itself in every aspect, in terms of academic programs, infrastructure development, staff recruitment, students admission, project and research activities, Transport, Training and Placement, centralized library, Sports and games etc.,

The college offers 6 UG degree program in B.E/B.Tech and 6 PG degree programs in M.E including MBA and MCA.

The Programs are

UG Courses:

- B.E – Mechanical Engineering
- B.E – Civil Engineering
- B.E – Computer Science and Engineering
- B.E – Electrical and Electronics Engineering
- B.E – Electronics and Communication Engineering
- B.Tech – Information Technology

PG Courses:

- Master of Business Administration
- Master of Computer Applications
- M.E – Manufacturing Engineering
- M.E – Computer Science and Engineering
- M.E – Communication Systems
- M.E – Power Electronics and Drives

Vision of the Institute

Envisioned to transform our institution into a "Global Centre of Academic Excellence"

Mission of the Institute

- i. To provide world class education to the students and to bring out their inherent talents
- ii. To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes
- iii. To recruit competent faculty and staff and to provide opportunity to upgrade their
- iv. knowledge and skills
- v. To have regular interaction with the Industries in the area of R&D and offer consultancy, training and testing services
- vi. To establish centers of excellence in the emerging areas of research
- vii. To offer continuing education and non-formal vocational education programmes that are beneficial to the society

2. DEPARTMENT PROFILE

The department of computer applications focuses on making industry ready IT professionals by imparting quality computer education along with excellent interpersonal skills. It offers 3 years Full time MCA course to the students. Started in the year of 2001, the course was approved by Bharathidasan University, Trichirappalli. In 2003, Anna University, Chennai recognized and approved the course. The current intake of students is 60 per academic year.

DEPARTMENT VISION

To produce software professionals with Academic Excellence in Computer Applications

DEPARTMENT MISSION

- To make software professionals and entrepreneurs by imparting quality computer education.
- To promote inter-disciplinary research among the faculty and the students to create state of art research facilities.
- To prepare the students to be professionally competent to face the challenges in the industry.

To promote quality and ethics among the students.

Programme Educational Objectives (PEO)

The PEO of MCA programme are as follows.

PE01: To employ solid foundation in mathematical and computing fundamentals and techniques to develop software solutions.

PE02: To apply good computing breadth so as to comprehend, analyze, design and create computing solutions for the real-life problems and entrepreneurial skills with arich set of communication, teamwork and leadership skills to excel in their profession.

PE03: To show continuous improvement in their professional career through life-long learning, understand the human values and ethics.

IV Program Outcomes (PO)

Graduates will be able to

PO1:Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.

PO2:Identify, formulate, research literature, and solve *complex* computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

PO3: Design and evaluate solutions for *complex* computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to *complex* computing activities, with an understanding of the limitations.

PO6: Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.

PO7: Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

PO8: Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO9: Communicate effectively with the computing community, and with society at large, about *complex* computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clearinstructions.

PO10: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

PO12: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

V. Program Specific Outcomes (PSO)

Graduates will be able to

PSO 1: Apply software engineering principles in the design and development of web and mobile applications

PSO 2: Manage and analyze huge volume of data in real world problems

Features of the Department

- Ensures quality and value based education
- Provides career guidance by the associating experts in the different fields
- Is renowned for its meticulous planning concerted efforts, competent and committed teaching faculty
- Enables extension / guest-lectures by the expertise in the various disciplines concerned
- Conducts academic programmer like tests, symposia, workshops, seminars etc
- Academic competitions like Paper presentation, essay writing, quiz etc.,
- Tours of academic interests
- Taps innovative talents, interests of its wards
- Conducts Weekly test, Short Answer Test and offers continuous evaluation of the performance of the students
- Remedial classes for slow learners
- Time to Time counseling by mentors
- Challenges students with extensive coaching of wide-ranging difficulty levels by conducting APTITUDE, REASONING tests
- Conducts class committee meetings
- Holds Parent-Teacher meetings
- Encourage the students to donate blood
- Conducts ENGLISH LITERARY ASSOCIATION PROGRAMME for the staff and students
- Ensure students participation in the Women Empowerment cell programs
- Sponsors the faculty for International/National Conferences/Seminars/Workshops, etc
- Personality development programs are conducted to improve student's soft skills
- Students are encouraged to do mini projects
- The department library has an extensive collection of academic books in the areas of latest technologies
- The department has stable, highly qualified and experienced staff members in the staff student ratio of 1:15

Laboratory facilities

Each laboratory is fully equipped to meet the requirement of Anna University Syllabi. The students can train themselves in the Laboratories with the guidance of the faculty during and after the college hours. The laboratory facilities are constantly upgraded to take care of the technological Changes in the respective disciplines.

Department Servers and Software Details

- Microsoft Windows Server 2003
- Linux Fedora v19
- Oracle 11i Data base Server Workstations
- 471 Core i3 and Pentium based systems with multimedia facilities
- Capable of getting connected to all server and every other systems over TCP/IP backbone
- All systems having access with Internet/Intranet
- Software
 - Microsoft Windows Server 2003
 - CentOS 5.3 (For C & C++ programming and Script languages)
 - Free BSD
 - Oracle 11i
 - IBM DB2
 - PowerBuilder
 - Sybase
 - Microsoft Office 2007
 - Microsoft Visual Studio 6.0
 - Microsoft Visual Studio 2010
 - Mathematica
 - IDL (Image Processing Tools)
 - MathCAD
 - IBM Rational Suite and IBM Rational Architect
 - Macromedia Flash and Dreamweaver
 - Front Page Express
 - Novell Netware
 - Adobe Photoshop
 - Network Simulator – 2 (Free Ware for Both Windows and Linux)
 - .netbeans Developer
 - Sun JDK, J2EE and J2ME
 - Internet Facilities
 - 16 Mbps leased line from Reliance

Priority Research Areas

1. Cloud Computing
2. Data Analysis
3. Data Mining and Warehousing
4. Network Security
5. Image Processing
6. Mobile Application Development
7. Ubiquitous Computing
8. Sensor Computing
9. Natural Language Processing
10. Green Computing



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

Ref.No:EGSPEC/MCA/ CW/ERP/2021/01

Date: 03/08/2021

To

The principal
D.G.Governmentarts college for women
Dharumapuram Road
Mayiladuthurai
Nagapattinam, Tamil Nadu 609001

Respected Sir,

Sub: Consultancy Work – Reg

We are performing some consultancy work in our department to intrude the manual generated works. We come to know that you follow so many manual works in your exam cell seating arrangement and you have more customers, if you want the things to be altered, we are ready to support you. Also we enclose the details about us. Hence, we kindly request you to give an opportunity.

Thanking you,

With regards


[Dr. J. Vanitha]

Contact Details

Dr. J. Vanitha
Professor/HOD/MCA
Department of MCA,
E.G.S. Pillay Engineering College,
Nagapattinam.



**DHARMAPURAM GNANAMBIGAI
GOVT. ARTS COLLEGE FOR WOMEN**
**தருமபுரம் ஞானாம்பிகை
வரசினர் மகளிர் கலைக்கல்லூரி**
மயலிசோடுதுறை
இந்திய அரசு சர்க்காருக்கான "A" வகைப்பாடு பெற்றது

Ref.No:EGSPEC/MCA/ CW/ERP/2021/01

Date: 13/08/2021

To

Dr. J.Vanitha
Professor/MCA/HOD
Department of MCA,
E.G.S.Pillay Engineering College,
Nagapattinam.

Respected Madam,

As a conversational expression of gratitude, we received your requisition letter. We are in necessitate of "ERP" software for our company to foreshorten the manual work , since there are more number of customers in our company, hope your project will satisfy our requirements.

We are contrived to accept your request. We are waiting for more details about your project as early as possible.

Thanking You,

Yours truly,

[A. RASANNAKUMARI]



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

Ref.No:EGSPEC/MCA/ CW/ERP/2021/02

Date: 30/08/2021

To

The principal
D.G.Government arts college for women
Dharumapuram Road
Mayiladuthurai
Nagapattinam,
Tamil Nadu 609001

Respected Sir,

Sub: Consultancy Work – Reg.

We have attached accomplished project proposal according to your kind reference, we hope that our project will be successful if have good communication between us. So, I kindly request you to fix one date for discussing the project details. In this meeting we will discourse the following project requirements, documentation, reporting, budget and any further details need by you. We are waiting for your positive reply.

Thanking you,

With regards
[Dr. J.Vanitha]

Contact Details

Dr. J.Vanitha

Professor

Department of MCA,

E.G.S.Pillay Engineering College,

Nagapattinam.



DHARMAPURAM GNANAMBIGAI
GOVT. ARTS COLLEGE FOR WOMEN
தருமபுரம் ஞானம்பிகை
வரசினர் மகளிர் கலைக்கல்லூரி
மதுரை (தமிழ்நாடு)
நாடு முழுமேல் 'A' வகைப்பாட்டு பெற்றது

Ref.No:EGSPEC/MCA/ CW/ERP/2021/02

Date: 03/09/2021

To

Dr. J.Vanitha
Professor
Department of MCA,
E.G.S.Pillay Engineering College,
Nagapattinam.

Respected madam,

Thanks for your concern. It will be favour for us if you can unionize the review meeting for the discussion of project proposal on 03/08/2021. We hereby put the demand of following details such as project coordinators details, evaluation model and completed status for each module. I hope two more review will be arranged to check the progress of your consultancy work. It will be tentatively on 10.09.2021 and 11.09.2021. We would like to furnish the following requirements of us.

- Add the one more Menus for Details
- Hall Details send to through SMS

Thanking You,

Yours truly,

[A. RASANNAKUMARI]



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

Ref.No:EGSPEC/MCA/ CW/ERP/2021/03

Date: 11/09/2021

To

The Principal
D.G.Government Arts College for women
Dharumapuram Road
Mayiladuthurai
Nagapattinam, Tamil Nadu 609001

Respected Sir,

Sub: Consultancy Work – Reg.

We have successfully completed the systemized entry details, automatically show the rest of goods, SMS facility as per your requirements please kindly ensure and intimate us immediately for any changes. The remaining modules will be completed as early as possible.

Thanking You,

With regards

[Dr. J. Vanitha]

Contact Details

Dr. J. Vanitha
Professor
Department of MCA,
E.G.S. Pillay Engineering College,
Nagapattinam.



**DHARMAPURAM GNANAMBIGAI
GOVT. ARTS COLLEGE FOR WOMEN**
**தருமபுரம் ஞானம்பிகை
வரசினர் மகளிர் கலைக்கல்லூரி**
மதுரை (தமிழ்நாடு)
இந்திய அரசின் உயர்நிலைப்பரீட்சை 'A' வகைப்படுத்தப்பட்டது

Ref.No:EGSPEC/MCA/ CW/ERP/2021/03

Date: 21/09/2021

To

Dr. J.Vanitha
Professor/HOD/MCA
Department of MCA,
E.G.S.Pillay Engineering College,
Nagapattinam.

Respected madam,

Thank you, we are satisfied with your project that you have so far completed. It will be reformative to us if you complete the forth coming module within the tentative date near the deadline.

Thanking you,

Yours truly,

[A. ASANNAKUMARI]



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

Ref.No:EGSPEC/MCA/ CW/ERP/2021/04

Date: 23/11/2021

To

The principal
D.G.Government arts college for women
Dharumapuram Road
Mayiladuthurai
Nagapattinam, Tamil Nadu 609001

Respected Sir,


Sub: Consultancy Work – Reg.

It gives me heart full of happiness to inform that our students has successfully completed the project work "ERP", this project has been verified in our Department premises and worked properly.

We request you to make yourself convenient to see the demonstration of the ERP and thereafter to release the payment 70,000/- for this project.

Thanking You,

With regards


[Dr. J. Vanitha]

Contact Details

Dr. J. Vanitha
Professor
Department of MCA,
E.G.S. Pillay Engineering College,
Nagapattinam.



**DHARMAPURAM GNANAMBIGAI
GOVT. ARTS COLLEGE FOR WOMEN**
**தருமபுரம் ஞானம்பிகை
அரசினர் மகளிர் கலைக்கல்லூரி**
மயசூரர்சேதுமேடு
நெடுமேடு கிணங்குளத்தில் "A" கல்களம் பள்ளி

Ref.No:EGSPEC/MCA/ CW/ERP/2021/04

Date: 03/12/2021

To

Dr. J.Vanitha
Professor/HOd/MCA
Department of MCA,
E.G.S.Pillay Engineering College,
Nagapattinam.

Respected Madam,

We congratulate you and your team for successful completion of the "ERP" software as per our requirements. We have completely satisfied with the performance of the software after the demonstration given by your team to us on 23.11.2021

Hence, as discussed, we have enclosed a cheque No.000782, date 08.12.2016 of Indian Bank for Rs. 5,618/- favouring "The Principal, EGSPEC, Nagapattinam".

We once again felicitate the students who have taken the project work and the staff member.

Thanking you

Yours truly,

[A. RASANNAKUMARI]

PROJECT PROPOSAL

01	Title of the Project(Consultancy)	:	ERP
02	Type of the Project	:	Consultancy Project
03	Name & Designation of the Project Coordinators	:	Dr. J.Vanitha Prof/MCA
04	Postal Address of the Principal Investigator	:	Old Nagore Road, Thethi Village, Nagore – Post, Nagapattinam – 611 002
05	Contact Phone numbers of the Project Coordinators	:	Mrs. C.Mallika Project Coordinator Contact No9442160758 Email: mallika@egspec.org
06	Name of the Institution / Organization in which the project will be carried out	:	E.G.S.Pillay Engineering College, Nagapattinam
07	Duration of the Project	:	August2021 – January2022(6 months)
08	Total Cost of the Project Proposal (details to be furnished in the prescribed format)	:	Enclosed separately – Annexure 1
09	An abstract, not exceeding one page describing the background, objectives methodology & year wise budget	:	Enclosed separately – Annexure 2
10	Project Work Plan	:	Enclosed separately – Annexure 3
11	Facilities available at the Institution / organization to carry out the project	:	Open Source Lab, Cloud Campus, Android Apps development Centre

Place: Nagapattinam

Date: 10.08.2021



Signature of the

Head of the Department

with Seal

Dr.J. VANITHA
Head of the Department
Department of MCA
E.G.S. Pillay Engineering College
Nagapattinam - 611 002.



Signature of Project Coordinator(s)



Signature of the

Head of the Institution

with Seal

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Annexure - 1

DETAILS OF BUDGET

	Descriptions	Total (Rs.)
A	Expenses Recurring/Non-Recurring(Salary/Cost of Labor, Software development , Travel and others)	2000
B	Testing & Documentation charge	9,600
C	Institutional overhead charge (10%) of (A) + 50%(B)	5,000
D	Total Charges(A+B+C)	10,000
E	Service Tax (12%)	3000
F	Education Cess(3%) of (Service Tax)	7000
G	Total Amount	70,000

ABSTRACT

Exam hall seating allocation is one of the major concerns in quality education. When the number of students, subjects, departments and rooms gets increased exam hall seating management becomes complex. Maintaining a decent exam environment with the proper seating arrangement is one of the difficult jobs for the institutions. This project provides solution to exam seating arrangement problems that can be achieved through the execution of proposed chromatic polynomial algorithm. This project provides solution for preventing some exam hall plagiarisms by arranging seats for large number of students and it also finds out the best combination of rooms to be assigned for the exam to organize perfect seating based on the capacity of the exam hall, number of students, differentiation of subjects. It provides better hall seating plan than the manual system used by the institutions. The project maintains various details in modules such as Students Details, Staff Details, and Hall Details with proper descriptions. It also has some features to generate reports for absentee's list using image processing.

Language:- ASP.NET

Backend:- SQL-Server

Annexure - 3

Work Plan

Phase	Primary Objective	Scheduled start or milestone
Planning/ Requirement Analysis	<ul style="list-style-type: none">✓ Analyzing Requirements✓ Collecting Project Requirements	Aug 2021
Elaboration	<ul style="list-style-type: none">✓ Identifying Technical Assistant✓ Installation and Setup✓ Purchasing	Sep2021
Designing	<ul style="list-style-type: none">✓ Designing Prototype Model✓ Project Review Status Preparation Submission✓ Project Modules Preparation	Oct 2021
Implementation	<ul style="list-style-type: none">✓ Start to develop Coding each Modules✓ Identify the Risk and Measure the values of on it.	Nov2021
Construction	<ul style="list-style-type: none">✓ Complete the Project and meet with Abstract✓ Project Final Phase meeting	Dec 2021
Transitions /End	<ul style="list-style-type: none">✓ Preparing Documentation Part✓ Final Project Presentation	Jan2022

EXPECTED OUTCOME

Through our system we can systematically work to achieve the following expected outcomes.

- a. Easy to handle and operate.
- b. Friendly interface.
- c. Fast and convenient.
- d. Less human effort.
- e. Easy to update.
- f. Easy message passing.
- g. Smart way of communication
- h. No paper work required

**EGS PILLAY ENGINEERING COLLEGE, NAGAPATTINAM
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

Utilization Certificate

Name of the Project	ERP
Name of the Coordinator(s)	Dr. J.Vanitha Prof/MCA Mrs. C.MallikaAsoc Prof/mca
Name of the Agency	DharmapuramGnanambigai Government Arts College
Type of Project	Consultancy work
Duration	Aug 2021 – Jan 2022
Project Cost	70,000

This certificate is an acknowledgment of the expenditure incurred in executing the consultancy work mentioned above. The accounts are duly submitted to the R&D Cell and verified by the principal.

S.No	Itemized list of expenses Incurred	Amount (Rs)
1.	Remuneration for two Project Coordinators (12 months*Rs.2000/pm) * 2	2000
2.	Remuneration for Technical Assistant (12 months * Rs.1000/pm)	9,600
3.	Preprocessing and Component Preparation	5,000
5.	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	10,000
6.	Travel	3000
7.	Institutional overhead charges	7000
	Total expenses incurred	70,000
	Income generated through Consultancy	70,000

1. Dr.J.VANITHA PROF/HOD/MCA

2. Mrs.C.MALLIKA AP/MCA


Name and Signature
of Coordinator



Name and Signature of
Head of Institution
Dr. S. RAMABALAN, M.E., Ph.D.,
With seal
PRINCIPAL

E.G.S. PILLAY ENGINEERING COLLEGE
NAGAPATTINAM - 611 002.

Signature (With Seal) of the Auditor/Accounts Officer



Branch: BKM
THANE, Maharashtra 4000700
IFSC Code: IDIB000T129

08122021
D D M M Y Y Y Y

The Principal EOPEC
Seventy Thousand Only

वा शिरो को OR BEADER

अदा करें

₹ 70,000

602 911 8257

FOR

CBS Code: 01591

A. P. ...
AUTHORISED SIGNATORY/IES
Please sign above

E.G.S. PILLAY ENGINEERING COLLEGE,

Nagapattinam - 611 002.

VOUCHER

Dept :

Lab/Ws :

Vr. No.:

Date : 08-12-21

Particulars	Rs.	P.
Paid to Thiru Dr. J. Nandha Mrs. C. Malika		
Towards..... Consultancy Project I. ERPJ	70,000	-
A sum of Rupees Seventy thousand only / -		
Received payment	70,000	-

[Signature]
Signature of Payee

[Signature]
Accounts Supdt.

Secretary

[Signature]
Principal