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

Consu	tancy Project Agreement			
roject Title: Touch Free Temperature Monitor System				
Name and Address of the	Mrs.M.Ramya,			
Company:	M/S Indiguard Systems (P) Ltd,			
Company .	3/365, Kollangarai			
	Thanjavur.			
Name of the Representative:	Mrs,M.Ramya			
Phone: 8489667053	E-mail: ramya.indi@gmail.com			

Principal Consultant*

S.No	Name of the Consultant	Designation	Department
1*	Mr.R.Anandaraj	Associate Professor	EEE
2	Mr.M.Vijayakumar	Associate Professor	EEE

Project Cost: Rs. 95,000	Service Tax: Nil
Total Project Cost: Rs. 95,000	
Duration of Proposed Work: Three Month	
Date of Commencement: 25/01/2021	Date of Completion: 23/04/2021
Scope of Proposed Work: use of non-conta	act temperature assessment devices during the
COVID-19 pandemic	

We agree to the above proposal and also to the	ne EGSPC terms & condition of EGSPEC Nagai.
Signature: R. A. 210171	Signature: 2101/201
(Principal Consultant, EGSPEC, Nagai) Name: Mr. R.Anandaraj Associate Professor / EEE	(Authorized signatory of the client SYSTEM Name: Mrs.M.Ramya, M/S Indiguard Systems (P) Ltd Strawayus 614334
Date: 21/01/2021	Date: 21/01/2021

Head of the Department	EGSPC Office Use Registered
Signature: While do of or	Project Number: EGSPCS/QUOT/EEE/2021/103
Date: 21/01/2021	Date: 21/01/2021 Signature: 1

Dr. V MOHAN M.E. Ph.R. The Section is a section of the section in the sect

E.G.S. PILLAY CONSULTANCY SERVICES E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM FORM FOR APPROVAL OF CONSULTANCY PROJECT

- 1. Name of the Department/Office/Branch: EEE
- 2. Title of the Consultancy Project: Touch Free Temperature Monitor System
- 3. Consultancy Project Category: I/II/III
- 4. Duration of the Consultancy Project (Year/Month/Days): Three months
- 5. (i) Date of Commencement 25/01/2021(ii) Expected Date of Completion 25/04/2021
- 6. Detailed Project Report (DPR) attached: YES / NO
- 7. Client's Name and Address: Mrs.M.Ramya, M/S Indiguard Systems (P) Ltd, 3/365, Kollangarai, Thanjavur.
- 8. Type of Client (Tick): Private Sector/ Govt. Sector/ Public Sector /Foreign Agency / Others (Please Specify)
- 9. Payment to be received in: Full / Part; Rs.47,500/-Indian Currency /Foreign Currency
- Signed / Not Signed 10. Whether MoU/ Agreement Signed with Client (Attach, if any):
- 11. Consent Letter from the Client attached: YES / NO
- 12. Consent Letter from the Consultant(s) attached: YES / NO_

13. Details of Persons involved in the Consultancy Project:

Name of Consultant(s) along with Designation & Department/Office/Branch	Brief role	Signature
Mr.R.Anandaraj Associate Professor / EEE	PI	R.A-
Mr.M.Vijayakumar Associate Professor / EEE	CO - PI	H augman Horny

Begartment of Electrical & Electronics Enge

Forwarded by Head of Department/ branch/office is pilling Engineering College Hagapatime

Director (EGSPCS) Office, EGSPEC

Consultancy Project No.:EGSPCS/APP/EEE/2021/103

Dated: 21/01/2021

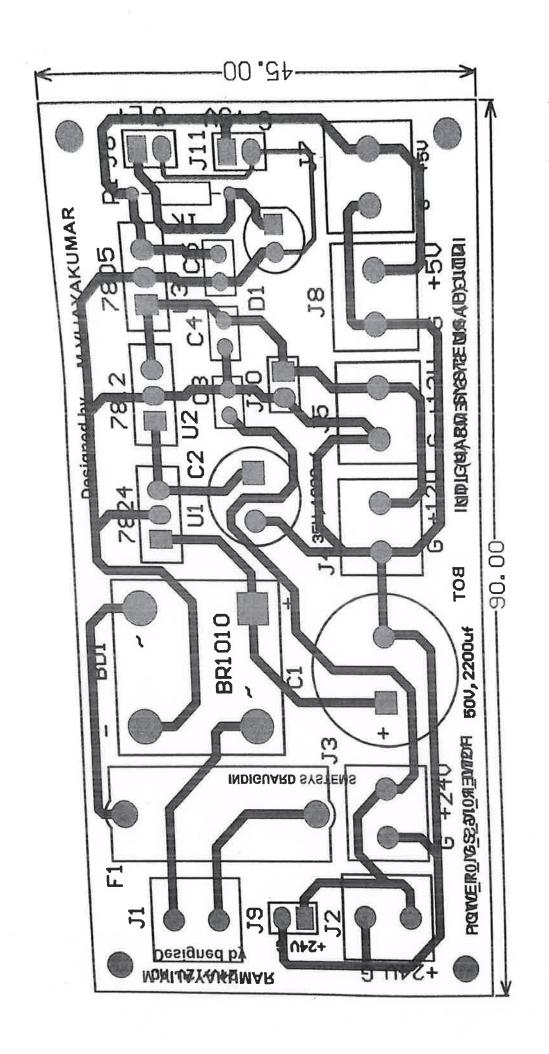
Recommendations of EGSPGS Committee: Approved / Not Approved / Suggestions for

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD

Reartiment et fie

12 Electronics Engg.

...licge - Magapattinam



E.G.S.PILLAY CONSULTANCY SERVICES E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM.

(Performa for making request for issuance billing for Consultancy and Testing Projects)

Project Title/Description: Touch Free Temperature Monitor System

MLX 90614 ESF Non contact temperature sensor, 16x2 LCD display, Ultrasonic sensor, ATMEGA 328 Controller, Power Circuit and Cabinet Design

Name of the Client: Mrs.M.Ramya

Approval No: EGSPCS/APP/EEE/2021/103.

Dated: 21/01/2021

Billing Amount in Rs. 95,000

Payment through Cash /Cheque/DD No. 9938

Dated 3.

Dated: 30/03/2021

Name of P.I.: R.Anandaraj, Asso. Prof / EEE

Department: EEE

Director Consultancy Services/HOD

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD

Department of Electrical & Electronics Enge. E.S.S. Pillay Engineering Catters - Magazit Thomas

Ref: Copy of Job Approval Form

No:-1787 /PW/SDR/KKL/2019-20

Dt.12.03.2020

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Concrete cube for Deck Slab Requested - Regarding

I am sending herewith the following samples of Concrete cube of Deck Slab the above said work for conducting necessary mandatory tests. In this connection it is requested that necessary test report of the same may be send to this office for taking further action please.

Grade of Concrete

RCC M30

Part of Structure

Deck Slab

Casing Date

13.02.2020

Cube test for

test for 28 days curing

Testing date

12.03.2020

Encl: 1 set of 3 cubes

ASSISTANT ENGINEER (ROADS) P.W.D. KARAIKAL

Yours faithfully



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)

No. EGSPEC/MTR/4099/2020

Date: 12.03,2020

COMPRESSIVE STRENGTH OF CONCRETE CUBES [M30 RCC]

[As per IS:516]

Assistant Engineer (Roads)

D. Karaikal District.

ne of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1787/PW/SDNH/KKL-2019-20 Dated: 12.03.2020

quested on

: 12.03.2020

ade of Concrete

: M30 RCC

rt of Structure

: Deck Slab

te of Cubes casting: 13.02.2020

Date of Testing (28 days): 12.03.2020

aracteristic Compressive Strength: 30 N/mm²

e of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225Cm²

0.	Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
	-	g	g/cc		KN	(N/mm^2)	(N/mm ²)	
1	Deck Slab/01	8627	2.556	28	880	39.11		
2	Deck Slab/02	8571	2.540	28	830	36.89	37.33	
3	Deck Slab/03	8509	2.521	28	810	36.00		

Average compressive Strength: 37.33 N/mm² [Limit: ≥ 30 N/mm²]

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

Note:

Any correction without attestation willing

Materials were supplied by the job re The results relate only to the samples to



Head of the Dept.

Dr R. SIVAKUMAR, M.E., Ph.D.

Drafessor & Head Department of Civil Engineering. E.G.S. Pillay Engine ding Collage,

Nagappatinnain.

rams : 'EGSP' Par

No:-1770 /PW/SDR/KKL/2019-20

Dt.06.01.2020

12-March-2020 Cash OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 1500 1500.00 Arasalar at Athipadugai village Amount raikal - Testing of Steel Course Mode of Payment - Regarding th the samples of steel TESTING BILL undatory tests. In this AMOUNT WILL NOT EGS PILLAY ENGINEERING COL ated as early as possible please. RECEIPT Rupees: one Thousand five hundred Only faithfully

samples for each size

ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

No:-1770 /PW/SDR/KKL/2019-20

Dt.06.01.2020

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal - Testing of Steel

& Aggregate samples (Coarse and Fine Aggregate) Requested - Regarding

With reference to the above subject, I am sending herewith the samples of steel Aggregate samples (Coarse and Fine Aggregate) for conducting all mandatory tests. In this connection it is requested that necessary test report may be communicated as early as possible please.

Coarse Aggregate (20mm+12.5mm+M-Sand)

Sieve Analysis tests (Individual / Combined), AIV Source of Material: Karur Blue Metal.

Steel:

Size of Steel: 8mm, 10mm, 12mm, 16mm, 25mm & 32mm

Brand:

JSW-Fe 500D

Test to be conducted

- 1. Tensile strength
- 2. Elongation test
- 3. Weight per metre
- 4. Bend and re bend test
- 5. Proof stress test
- 6. Yield strength

Yours faithfully

Encl: Aggregate samples & steel 3 Samples for each size ASSISTANT ENGINEER (ROADS)

P.W.D. KARAIKAL

Copy Submitted to:- The Executive Engineer, B & R, Division, P.W.D, Karaikal – for kind



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(Approved by AICTE, New Delhi, Approved by Govt.of Tamil Nadu) (Affiliated to Anna University Chennai)



Consultancy services

(Department of Civil Engineering)

No. EGSPEC/MTR/4071/2020

Date: 11.01.2020

STEEL TEST RESULTS

:11-Jan-2020 **GLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002** Course Mode of Payment Date RECEIPT

8000.00 Amount TESTING BILL Fees Type Eight Thousand Only Rupees:

8000

AMOUNT WILL NOT BE REFUNDED

Payee's Signature and Name

casalar at Athipadugai · cluster,

ested: 07.01.2020

end	Rebend
•	3)
ictory	
it.	Satisfactory
	-
ctory	
	Satisfactory

on limits...

the Dept. KUMAR, M.E., Pn.O. essor & Head of Civil Engineering: Engineering College,

EGS PILLAY ENGINEERING VOL

jappattinam.

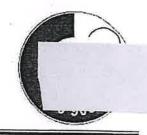
Conti.,

rams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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(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)

No. EGSPEC/MTR/4071/2020

Date: 11.01.2020

STEEL TEST RESULTS

(IS: 1786: 2008)

Assistant Engineer (Roads) 1.D. Karaikal District.

ne of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1770/PW/SDR/KKL-2019-20 Dated: 06.01.2020

and of Steel

: JSW - Neosteel

Grade of Steel: Fe 500D

ruested on

: 06.01.2020

Date of tested: 07.01.2020

Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
(mm)	(Kg)	(N/mm ²)	(N/mm^2)	(%)	1	
Qm TAGE	0.3877	540	622	19.7	-	140
8mm TMT (JSW - Neosteel- Fe 500D)	0.3902		i an	•	Satisfactory	. .
	0.3887	5 9 5		-	€)	Satisfactory
10mm TMT	0.6170	553	619	20.1	-	-
(JSW - Neosteel- Fe 500D)	0.6187	#1		-	Satisfactory	*
	0.6193	-				Satisfactory

The Physical and Mechanical properties of steel test results are within the specification limits...

Note:

1. Any correction without attestation will walidare in the

2. Materials were supplied by the job requester.
3. The results relate only to the samples tested.

DI R. SIVAKUMAR, M.E., Ph.D.

Pratessor & Head Department of Civil Engineering: E.G.S. Pillay Engineering College, Nagappattinam.

Conti.,

rams: **EGSP**, Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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)



Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
(mm)	(Kg)	(N/mm ²)	$(N/m m^2)$	(%)		
ma (m	0.8995	547	632	22.7	-	
12mm TMT (JSW - Neosteel-	0.8911	-	A g	· ·	Satisfactory	-
Fe 500D)	0.8925		1350		+	Satisfactor
16mm TMT	1.5847		-	-	Satisfactory	
(JSW - Neosteel-	1.5898	553	646	22.9	-	
Fe 500D)	1.5826	- -	(*	*	2	Satisfactor
25mm TMT	3.8592	540	602	20.5	9	
(JSW - Neosteel-	3.8758	-	*	-	Satisfactory	-
Fe 500D)	3.8769	-		-	-	Satisfactory
32mm TMT	6.3022	547	629	20.7	\ <u>-</u>	-
(JSW - Neosteel-	6.3050	-	*	Ē	Satisfactory	
Fe 500D)	6.2974	-	-	-		Satisfactory

The Physical and Mechanical properties of steel test results are within the specification limits...

Note:

Any correction without attestation wil

Materials were supplied by the job request 3. The results relate only to the samples test

Head of the Pept. ME . n. U.

Grovessor & Head

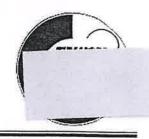
Department of Civil Engineering E.C.S. Pagav Engineering College,

Nagappalinam.



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Specification Limits (Physical & Mechanical properties):

Grade of Steel: Fe 500D

ia. of Steel	Mass per Meter (Kg.)	Tolerance of Nominal mass	Tolerance per Mass (Kg.)	0.2 percent proof stress / Yield stress Min. N/mm ²	Elongation percent, Min.	Tensile Strength (N/mm²)
8mm	0.395	Up to and including	0.363 = 0.427	0.363 0.427		
l0mm	0.617	10mm ±8%	0.568 - 0.666		16.0	10 percent more than the actual 0.2 percent Proof stress /yield stress. But not less than 565 N/mm².
12mm	0.888	10mm up to and	0.835 - 0.941			
l6mm	1.58	including 16mm ±6%	1.485 – 1.675	500		
20mm	2.47		2.371 – 2.569			
25mm	3.85	Over 16mm ±4%	3.696 – 4.004			
32mm	6.31	-	6.058 - 6.562			

Note:

1. Any correction without attestation will invalidate in the

Materials were supplied by the job requester
 The results relate only to the samples to seed.

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

rams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522. Hostel: 251348 Fax: (04365) 251114

Dt.15.06.2019

: 11-Jan-2020 OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 18000 18000.00 EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS) Amount at Athipadugai village Course Mode of Payment Testing of AMOUNT WILL NOT BE REFUNDED ample of Cement Date TESTING BILL mmunicated as early as RECEIPT Rupees: Eigtheen Thousand Only Fees Type Payee's Signature and Name ithfully **NGINEER (ROADS)** KARAIKAL

information please.

aikal - for kind

No:-1684 /PW/SDR/KKL/2019-20

Dt.15.06.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Cement Requested - Regarding

With reference to the above subject, I am sending herewith the sample of Cement testing. In this connection it is requested that necessary test report may be communicated as early as possible please.

Cement:

Cement: Coromandel @ OPC 53

- 1. Consistency of Cement
- 2. Initial & Final setting time
- 3. Fineness of Cement
- 4. Soundness of Cement (Le-Chatalier method)
- 5. Mortar Cubes testing (3 days, 7 days & 28 days)

Yours faithfully

Encl: 1 Cement Bag (50KG)

ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

No:-1684 /PW/SDR/KKL/2019-20

Dt.15.06.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Cement Requested - Regarding

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5. Mortar Cubes testing (3 days, 7 days & 28 days)

Yours faithfully

Encl: 1 Cement Bag (50KG)

ASSISTANT ENGINEER (ROADS) P.W.D. KARAIKAL



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)

No. EGSPEC/MTR/3945/2019

Date: 14.07.2019

CEMENT TEST RESULTS

(IS: 269: 2015)

Assistant Engineer (Roads) V.D. Karaikal District.

me of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1684/PW/SDR/KKL-2019-20 Dated: 15.06.2019

quested on

: 15.06.2019

Date of Cement tested: 16.06.2019

ortar Cubes Casted Date: 16.06.2019

Date of Mortar cubes testing(3days): 19.06.2019, (7days): 23.06.2019, (28days): 14.07.2019

				_		
3ra	nd of Cement: Coro	mandel	Grade of Cemen	t: C	PC-53	Week No: 24 th
				Τe	est Results	Specification Limits
	and the second					(IS: 269: 2015)
1	Normal Consistency o	f Cement	(%)	:	31.5 %	(*)
	Setting Time		. ,			
1	Initial Setting Time		(minutes)	:	150	Min. 30
1	Final Setting Time		(minutes)	:	315	Max. 600
I	Fineness of Cement		(%)		2.88	10%
((By Drying Sieve)		(/*/		2.00	1070
(Soundness of Cement Le-Chatelier Method)		(mm)	ē	3.9	Max. 10 mm
	Compressive Strengt	h of Comout No.	leser Array			
3			ar Cubes			
	done	72 ± 1 h, Min)	Mpa	:	33.44	Min, 27 Mpa
	SERVICE TO THE REAL PROPERTY.	$168 \pm 2 \text{ h, Min}$	Mpa	:	46.48	Min, 37 Mpa
28 days $(672 \pm 4 \text{ h}, \text{ M})$		$672 \pm 4 \text{ h, Min}$	Mpa	:	Awaited	Min, 53 Mpa
	1. My 12	8 9		1.E11	4 4 17 94 4 5 5 4 4	di -

Supervised by

Note:

Any correction without attestation was invalidue in

2. Materials were supplied by the job red

The results relate only to the samples to



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

E.G.S. Pillay Engineering College. Nagappallinam.

rams: 'EGSP' Personal: 251114, Office: 251112 Chair



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)

No. EGSPEC/MT/3944/2019

Date: 14.07.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES

(IS: 4031 Part -7)

: Assistant Engineer (Roads) V.D. Karaikal District.

me of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1684/PW/SDR/KKL-2019-20 Dated: 15.06.2019

quested on

: 15.06.2019

and of Cement : Coromandel

Grade of Cement: OPC-53

Week No: 24th

ite of Casted

: 16.06.2019

Date of tested (28 days): 14.07.2019

ce of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc Area of Cube: 49.84cm²

l. Vo.	Mortar Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm^2)	(N/mm ²)	
1	1	848	2.410	28	283	56.78		
2	2	839	2.384	28	295	59.19	57.18	
3	3	841	2.390	28	277	55.58		

Average compressive Strength: 57.18 N/mm² [Minimum: 53 Mpa.]

3 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

Note:

Any correction without attestation with

Materials were supplied by the job re

3. The results relate only to the samples tes

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

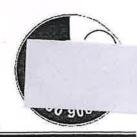
Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagappatlinam.

rams: 'EGSP' Personal: 251114 Office 251112



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)

No. EGSPEC/MTR/3931/2019

Date: 23.06.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES (IS: 4031 Part -7)

e Assistant Engineer (Roads) N.D. Karaikal District.

me of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1684/PW/SDR/KKL-2019-20 Dated: 15.06.2019

equested on

: 15.06.2019

rand of Cement : Coromandel

Grade of Cement: OPC-53

Week No: 24th

ate of Casted

: 16.06.2019

Date of tested (7 days): 23.06.2019

ze of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc

Area of Cube: 49.84cm²

S. No.	Mortar Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm ²)	(N/mm ²)	
1	4	845	2.401	7	225	45.14		
2	5	840	2.387	7	235	47.15	46.48	
3	6	838	2.381	7	235	47.15		

Average compressive Strength: 46.48 N/mm² [Minimum: 37 Mpa.]

#7 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

Supervised by

Note:

1. Any correction without attestation will journal date in this cer

2. Materials were supplied by the job requesters. 3. The results relate only to the samples tested.

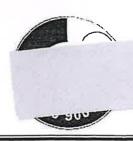
professor & Head Department of Civil Engineering: F.G.S. Ginav Engineering Conege, Negappath Actu

Grains: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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)

No. EGSPEC/MT/3926/2019

Date: 18.06.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES

(IS: 4031 Part -7)

e Assistant Engineer (Roads) W.D. Karaikal District.

me of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

ference

: 1684/PW/SDR/KKL-2019-20 Dated: 15.06.2019

equested on

: 15.06.2019

rand of Cement : Coromandel

Grade of Cement: OPC-53

Week No: 24th

ate of Casted

: 16.06.2019

Date of tested (3 days): 19.06.2019

ze of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc

Area of Cube: 49.84cm²

S, No.	Mortar Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm ²)	(N/mm ²)	
1	1	844	2.398	3	175	35.11		
2	2	831	2.361	3	160	32.10	33.44	
3	3	837	2.379	3	165	33.11		i (i)

Average compressive Strength: 33.44 N/mm² [Minimum: 27 Mpa.]

#3 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

Note:

1. Any correction without attestation will in

2. Materials were supplied by the job reques

3. The results relate only to the samples tested

Head of the Dept.

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

Decarment of Civil Engineering, F.G.S. Pillay Engineering College, Nagappattinam.

rams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

No:-1693 /PW/SDR/KKL/2019-20

Dt.20.06.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Steel

Requested - Regarding

With reference to the above subject, I am sending herewith the samples of steel for conducting all mandatory tests. In this connection it is requested that necessary test report may be communicated as early as possible please.

Steel:

Size of Steel: 8mm, 10mm, 12mm, 16mm, 25mm & 32mm

Brand:

JSW-Fe 500D

Test to be conducted

- 1. Tensile strength
- 2. Elongation test
- 3. Weight per metre
- 4. Bend and re bend test
- 5. Proof stress test

6. Yield strength

Yours faithfully

Encl: 3 Samples for each size

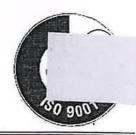
ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL



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(Approved by AICTE, New Delhi, Approved by Govt.of Tamil Nadu) (Affiliated to Anna University Chennai)



Consultancy services

(Department of Civil Engineering)

No. EGSPEC/MTR/3930/2019

Date: 24.06.2019

STEEL TEST RESULTS

(IS: 1786: 2008)

Assistant Engineer (Roads) D. Karaikal District.

ne of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

erence

: 1693/PW/SDR/KKL-2019-20 Dated: 20.06.2019

ind of Steel

: JSW - Neosteel

Grade of Steel: Fc 500D

nested on

: 20.06.2019

Date of tested: 21.06.2019

Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
(mm)	(Kg)	$(N/m m^2)$	(N/mm^2)	(%)		
Que and Title of the	0.3911	555	610	19.5	-	<u>.</u>
8mm TMT (JSW - Neosteel- Fe 500D)	0.3942	r a s	€′		Satisfactory	
re 500D)	0.3990	=: ==0	·=:	=	#: e	Satisfactory
10mm TMT	0.6189	550	596	20.2	-	-
(JSW - Neosteel- Fe 500D)	0.6192	-	"		Satisfactory	
	0.6181					Satisfactory

The Physical and Mechanical properties of steel test results are within the specification limits...

Supervised by

Note:

Any correction without attestation will invalidate in the

Materials were supplied by the job requester, 3. The results relate only to the samples testern

Professor & Head

Department of Civil Engineering, E.G.S. Pillsy Engineering College,

Nagappattinam.

Conti.,

ms: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522 Hostel: 251348 Fax: (04365) 251114



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(Affiliated to Anna University Chennai)



Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
(mm)	(Kg)	(N/m m ²)	(N/mm ²)	(%)		
	0.8925	562	625	20.9	3)	-
12mm TMT (JSW - Neosteel-	0.8907	-	*	192	Satisfactory	
Fe 500D)	0.8897	-	081	-	-	Satisfactory
	1.5857	547	607	22.3		<u> </u>
16mm TMT (JSW - Neosteel-	1.5892	-		4	Satisfactory	.*
Fe 500D)	1.5890	-	:-		•	Satisfactory
	3.8611	561	630	21.5	-	
25mm TMT (JSW - Neosteel-	3.8808			-	Satisfactory	Se.
Fe 500D)	3.8921	-	-	-	-	Satisfactory
32mm TMT	6.3102	541	592	20.7	, earl o	-
32mm TMT (JSW - Neosteel- Fe 500D)	6.3048	(6	•	Len.	Satisfactory	
	6.3098	-		-		Satisfactory

The Physical and Mechanical properties of steel test results are within the specification limits...

Supervised by

Note:

1. Any correction without attestation

2. Materials were supplied by the job rec

3. The results relate only to the samples it

Head of the Dept.
Dr R SIVAKUMAR ME. Ph.D.

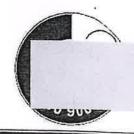
Department of Civil Engineering F.G.S. Piney Engineering College, Nagappatingant.

Conti.,



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Specification Limits (Physical & Mechanical properties):

Grade of Steel: Fe 500D

a of Steel	Mass per Meter (Kg.)	Tolerance of Nominal mass	Tolerance per Mass (Kg.)	0.2 percent proof stress / Yield stress Min. N/mm ²	Elongation percent, Min.	Tensile Strength (N/mm²)
3mm	0.395	Up to and including	0.363 - 0.427			
0mm	0.617	10mm ±8%	0.568 - 0.666	à		
12mm	0.888	10mm up to and	0.835 - 0.941	500		10 percent more than the actual
6mm	1.58	including 16mm ±6%	1.485 – 1.675		16.0	0.2 percent Proof stress
20mm	2.47		2.371 - 2.569			/yield stress. But not less than 565 N/mm ² .
25mm	3.85	Over 16mm ±4%	3.696 – 4.004			
2mm	6.31		6.058 - 6.562	:		

Supervised by
Note:

1. Any correction without attestation will invariate in this certification.

2. Materials were supplied by the job requested. Any correction without attestation with
 Materials were supplied by the job requester
 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,
Nagappattinam.

No:-1697 /PW/SDR/KKL/2019-20

Dt.30.06.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Concrete cube for Pier P2 Requested - Regarding

I am sending herewith the following samples of Concrete cube of Pier P2 the above said work for conducting necessary mandatory tests. In this connection it is requested that necessary test report of the same may be send to this office for taking further action please.

Grade of Concrete

RCC M30

Part of Structure

Pier P2

Casing Date

02.06.2019

Cube test for

test for 28 days curing

Testing date

30.06.2019

.

Encl: 1 set of 3 cubes

ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

Yours faithfully



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3933/2019

Date: 30.06.2019

COMPRESSIVE STRENGTH OF CONCRETE CUBES [M30 RCC]

[As per IS:516]

Fo

The Assistant Engineer (Roads) .W.D. Karaikal District.

Vame of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

teference

: 1697/PW/SDNH/KKL-2019-20 Dated: 30.06.2019

Requested on

: 30.06.2019

Prade of Concrete

: M30 RCC

art of Structure

: Pier P2

late of Cubes casting: 02.06.2019

Date of Testing (28 days): 30.06.2019

Characteristic Compressive Strength: 30 N/mm²

ize of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)	Remarks
1	Pier P2-01	8499	2.518	28	755	33.56	(Minin)	
2	Pier P2-02	8565	2.538	. 28	762	33.87	33.36	
3	Pier P2-03	8532	2.528	28	735	32.67	3330	

Average compressive Strength: <u>33.36</u> N/mm² [Limit: ≥ 30.00 N/mm²]

#28 days Cubes Compressive Strength test results are within the specification limit.

Supervised by

Note:

Any correction without attestation will

Materials were supplied by the job 3. The results relate only to the samples

Protessor & Head Department of Civil Engineering C.S. Piliav Enginsering College Nagappathinam

Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

No:-1686 /PW/SDR/KKL/2019-20

Dt.18.06.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Concrete cube for Pile P1 Requested - Regarding

I am sending herewith the following samples of Concrete cube of Pile P1 the above said work for conducting necessary mandatory tests. In this connection it is requested that necessary test report of the same may be send to this office for taking further action please.

Grade of Concrete

RCC M₃₀

Part of Structure

Pile P1

:

.

Casing Date

11.06.2019

Cube test for

test for 7 days curing

Testing date

18.06.2019

Encl: 1 set of 3 cubes

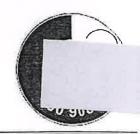
ASSISTANT ENGINEER (ROADS) P.W.D. KARAIKAL

Yours faithfully



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3929/2019

Date: 18.06.2019

COMPRESSIVE STRENGTH OF CONCRETE CUBES [M30 RCC]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1686/PW/SDNH/KKL-2019-20 Dated: 18.06.2019

Requested on

: 18.06.2019

Grade of Concrete

: M30 RCC

: Pile P1

Part of Structure

Date of Cubes casting: 11.06.2019

Date of Testing (7 days): 18.06.2019

Characteristic Compressive Strength: 30 N/mm²

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

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)	Remarks
1	Pile P1/01	8585	2.544	7	578	25.69		
2	Pile P1/02	8555	2.535	7	546	24.27	25.07	
3	Pile P1/03	8478	2.512	7	568	25.24		

Average compressive Strength: 25.07 N/mm² [Limit: ≥ 20.10 N/mm²]

#28 days Cubes Compressive Strength test results are awaited.

Note:

Any correction without attestation will in

2. Materials were supplied by the job requesto 3. The results relate only to the samples tested.

GNARH, M.E.,Ph.O. Protessor & Head Department of Civil Fingineering. E.G.S. Pillay Engineering College, Nagappattinem.

No:-1679 /PW/SDR/KKL/2019-20

Dt.30.05.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Concrete cube for Test Pile Requested - Regarding

I am sending herewith the following samples of Concrete cube of test pile the above said work for conducting necessary mandatory tests. In this connection it is requested that necessary test report of the same may be send to this office for taking further action please.

Grade of Concrete

RCC M30

Part of Structure

Test pile

Casing Date

02.05.2019

Cube test for

test for 28 days curing

Testing date

30.05.2019

Encl: 1 set of 3 cubes

ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

Yours faithfully



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(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/MTR/3921/2019

Date: 30.05.2019

COMPRESSIVE STRENGTH OF CONCRETE CUBES [M30 RCC]

[As per IS:516]

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1679/PW/SDNH/KKL-2019-20 Dated: 09.05.2019

Requested on

: 09.05.2019

Grade of Concrete

: M30 RCC

Part of Structure

: Test Pile

Date of Cubes casting: 02.05.2019

Date of Testing (28 days): 30.05.2019

Characteristic Compressive Strength: 30 N/mm²

lize of Cube: 15cm x 15cm x 15cm

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
-		g	g/cc		KN	(N/mm^2)	(N/mm ²)	
1	Test pile-4	8633	2.558	28	779	34.62		
2	Test pile-5	8549	2.533	28	810	36.00	34.80	e
3	Test pile-6	8511	2.522	28	760	33.78		

Average compressive Strength: <u>34.80</u> N/mm² [Limit: ≥30.00 N/mm²]

#28 days Cubes Compressive Strength test results are within the specification limit

Note:

Any correction without attestation will inva-

2. Materials were supplied by the job requester.

3. The results relate only to the samples tested.



Desartment of Civil Engineering, E.G.S. Pilisy Engineering College, Nagappailinam.

Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

No:-1671 /PW/SDR/KKL/2019-20

Dt.09.05.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Concrete cube for Test PileRequested - Regarding

I am sending herewith the following samples of Concrete cube of test pile the above said work for conducting necessary mandatory tests. In this connection it is requested that necessary test report of the same may be send to this office for taking further action please.

Grade of Concrete

RCC M30

Part of Structure

Test pile

:

•

:

Casing Date

02.05.2019

Cube test for

test for 7 days curing

Testing date

09.05.2019

Encl: 1 set of 3 cubes

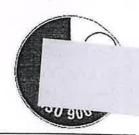
ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

Yours faithfully



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3905/2019

Date: 09.05.2019

COMPRESSIVE STRENGTH OF CONCRETE CUBES [M30 RCC]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1671/PW/SDNH/KKL-2019-20 Dated: 09.05.2019

Requested on

: 09.05.2019

Grade of Concrete

: M30 RCC

Part of Structure

: Test Pile

Date of Cubes casting: 02.05.2019

Date of Testing (7 days): 09.05.2019

Characteristic Compressive Strength: 30 N/mm²

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

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm^2)	(N/mm ²)	
-/	Test pile-1	8476	2.511	7	505	22.44		
2	Test pile-2	8537	2.529	7	550	24.44	23.33	
3	Test pile-3	8445	2.505	7	520	23.11		

Average compressive Strength: 23.33 N/mm² [Limit: ≥ 20.10 N/mm²] #28 days Cubes Compressive Strength test results are awaited.

Note:

Any correction without attestation wil invalidate in

Materials were supplied by the job requests.
The results relate only to the samples lested



Head of the Dept. Professor & Head

Degarment of Civil Engineering E.G.S. Fillav Engineering College. Nagopratilinami

Personal 251114 OCC.

No:-1653 /PW/SDR/KKL/2019-20

Dt.17.04.20219

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of Steel

Requested - Regarding

With reference to the above subject, I am sending herewith the samples of steel for conducting all mandatory tests. In this connection it is requested that necessary test report may be communicated as early as possible please.

Steel:

Size of Steel: 8mm, 10mm, 12mm, 16mm, 25mm & 32mm

Brand:

JSW-Fe 500D

Test to be conducted

- 1. Tensile strength
- 2. Elongation test
- 3. Weight per metre
- 4. Bend and re bend test
- 5. Proof stress test
- 6. Yield strength

Yours faithfully

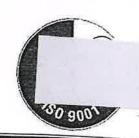
Encl: 3 Samples for each size

ASSISTANT ENGINEER (ROADS) P.W.D. KARAIKAL



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3901/2019

Date: 20.04.2019

STEEL TEST RESULTS

(IS: 1786: 2008)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1653/PW/SDR/KKL-2019-20 Dated: 17.04.2019

Brand of Steel

: JSW - Neosteel

Grade of Steel: Fe 500D

Requested on

: 17.04.2019

Date of tested: 18.04.2019

Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
(mm)	(Kg)	(N/mm ²)	$(N/m m^2)$	(%)		
8mm TMT	0.3972	559	659	18.8	-	
(JSW - Neosteel- Fe 500D)	0.3957	(=)	¥		Satisfactory	
	0.3989	æ1	*	-	=	Satisfactory
10mm TMT	0.6182	537	589	21.0		-
(JSW - Neosteel- Fe 500D)	0.6175	-	*	•	Satisfactory	_
	0.6189	**				Satisfactory

The Physical and Mechanical properties of steel test results are within the specification limits...

Note:

R. SIVAKUMAR, M.E., Ph.B.

Prefessor & Head

Any correction without attestation with a state of the properties.

The results relate only to the samples tested.

Head of the Debt.

Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagappallinam.

Conti.,

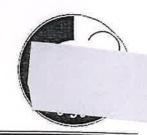
Personal: 251114, Office: 251112, Chairwan istel: 251348, Fax: (04365) 251114

Web site : www.eesbecke



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S. 10.	Dia. / Brand of Steel	Weight per Meter	0.2% Proof - Stress	Ultimate Tensile Strength	Elongation	Bend	Rebend
	(mm)	(Kg)	(N/mm ²)	(N/mm^2)	(%)		
7	12mm TMT	0.8895	530	601	20.0	:=3	-
8	(JSW - Neosteel-	0.8975	, Set		**	Satisfactory	=
9	Fe 500D)	0.9011	~	- 5		*1	Satisfactory
7	16mm TMT	1.5887	Æ	-)=;	Satisfactory	(1
8	(JSW - Neosteel-	1.5789	537	621	21.0	-	()=
9	Fe 500D)	1.5866	, =	-		-	Satisfactory
10	25mm TMT	3.8656	533	617	22.5	+	
11	(JSW - Neosteel-	3.8798		-	3 9 3	Satisfactory	•
12	Fe 500D)	3.8928	,# f	_ =	8/	-	Satisfactory
16	32mm TMT	6.2975	559	649	21.2	-	
17	(JSW - Neosteel-	6.3095		*	-	Satisfactory	*
18	Fe 500D)	6.3122	-	-	*	-	Satisfactory

[#] The Physical and Mechanical properties of steel test results are within the specification limits...

Supervised by

Note:

1. Any correction without attestation will in a

Materials were supplied by the job requ

The results relate only to the samples tester



Head of the Dept.

Dr. R. SIVAKUMAR, M.E., Ph.D.

Professor & Head Department of Civil Engineering. F.G.S. Pillav Engineering College, Nagappaninam.

Conti..



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Specification Limits (Physical & Mechanical properties):

Grade of Steel: Fe 500D

	Maga non		7		Sande of Steel. Te 5001	
Dia. of Steel	Mass per Meter (Kg.)	Tolerance of Nominal mass	Tolerance per Mass (Kg.)	0.2 percent proof stress / Yield stress Min. N/mm ²	Elongation percent, Min.	Tensile Strength (N/mm²)
8mm	0.395	Up to and including 10mm ±8%	0.363 - 0.427	500		10 percent more than the actual 0.2 percent Proof stress /yield stress. Bu not less than 565 N/mm ² ,
10mm	0.617		0.568 - 0.666			
12mm	0.888	10mm up to and including 16mm ±6%	0.835 - 0.941			
16mm	1.58		1.485 – 1.675			
20mm	2.47	Over 16mm ±4%	2.371 – 2.569			
25mm	3.85		3.696 – 4.004			
32mm	6.31		6.058 - 6.562			

Supervised by
Note:

Any correction without attestation will invalidate in thi Materials were supplied by the job requester.

The results relate only to the samples tested

Head of the Dept

Dr R. SIVAKUMAR, M.E., Ph.D.

Prefessor & Head

Department of Civil Engineering, E.G.S. Pillay Engineering College, Magappattinam.

Personal: 251114, Office: 251112 Chairm

GOVERNMENT OF PUDUCHERRY OFFICE OF THE ASSISTANT ENGINEER ROADS SUB DUVUSUIB P.W.D KARAIKAL

No:-1642 /PW/SDR/KKL/2019-20

Dt. 23.03.2019

To

The Head of the Department.,

Department of Civil Engineering, EGS Pillay Engineering College, Nagapattinam.

Sir,

Sub:- PW-AE(R)-KKL- Construction of Bridge across river Arasalar at Athipadugai village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal – Testing of

Coarse, Fine aggregate, M-Sand, Cement testing, Water & Concrete Mix designs (M-30 Pile & M-30 RCC) Requested - Regarding

With reference to the above subject, I am sending herewith the samples of Testing of Coarse, Fine aggregate, M-Sand, Cement testing, Water for conducting all mandatory tests along with concrete mix designs M-30 Pile & M-30RCC, in this connection it is requested that necessary test report may be communicated as early as possible please.

Materials

- Coarse & Fine Aggregate (20mm, 12.5mm, M-Sand (Source of Material: Stock yard @ site, Karur Blue Metal, Karur)
- 2. Water: Bore well water @ Athipadugai Village
- 3. Cement: Coromandel @ OPC 53
- 4. Admixture: Sika India Pvt Ltd.,

Yours faithfully

Encl: As stated above

ASSISTANT ENGINEER (ROADS)
P.W.D. KARAIKAL

Copy Submitted to:- The Executive Engineer, B & R, Division, P.W.D, Karaikal – for kind information please.



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3875/2019

Date: 30.03.2019

SIEVE ANALYSIS OF FINE AGGREGATE (M-SAND)

(IS:383-2016)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 25.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

SAMPLE-01

Total weight (g): 1245.5

Sieve Size	Weight retained	Cumulative Weight retained	Cumulative % of weight retained	% of Passing	Specification Limits [Zone-II]
	(g)	(g)	0.0	100.0	100
10 mm	0.0	0.0		97.1	90-100
4.75 mm	35.5	35.5	2.9		
2.36 mm	124.5	160.0	12.8	87.2	75-100
The same of the sa		425.2	34.1	65.9	55-90
1.18 mm	265.2		53.7	46.3	35-59
600 microns	244.2	669.4		23.3	8-30
300 microns	285.5	954.9	76.7		
150 microns	184.5	1139.4	91.5	8.5	0-10
75 microns	75.5	1214.9	97.5	2.5	
Pan	30.6		ev boxel to		

Fineness Modulus: 2.717 (Limit: 2.0 - 3.5)

Zone: II

Grans: 'EGSP' Personal: 251114, Office: 251112, Web site: www.egspec , Hostel : 251348**EIG**



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SAMPLE-02

Total weight (g): 1177.8

Sieve Size	Weight retained	Cumulative Weight retained	Cumulative % of weight retained	% of Passing	Specification Limits [Zone-II]
	(g)	(g)			
10 mm	0.0	0.0	0.0	100.0	100
4,75 mm 22.4		22.4	1.9	98.1	90-100
2.36 mm	133.2	155.6	13.2	86.8	75-100
1.18 mm 224.9		380.5	32.3	67.7	55-90
600 microns	260.3	640.8	54.4	45.6	35-59
300 microns	251.5	892.3	75.8	24.2	8-30
150 microns	182.2	1074.5	91.2	8.8	0-10
75 microns	80.9	1155.4	98.1	1.9	
Pan	22.4		1 111		

Fineness Modulus: 2.688 (Limit: 2.0 - 3.5)

Zone: II

Fineness Modulus

2.703 (Limit: 2.0 - 3.5) Zone: II

2. Silt Content

2.2 % < 3.0%

1 - 2

Note:

Any correction without attestation will malifate in this c

2. Materials were supplied by the job requester

The results relate only to the samples tested

Head of the Dept. Dr. R. SIVAKUN'AR, M.E., Ph.D.

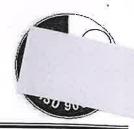
Professor & Head Repartment of Civil Engineering, E.G.S. Pilley Engineering College, Nagappatlinam.

Grams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3876/2019

Date: 30.03.2019

SIEVE ANALYSIS OF COARSE AGGREGATE

(IS:383-2016)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 25.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

SIEVE ANALYSIS OF 20mm (Single Size)

Total weigh (g) · 9227

Sieve Size (mm)	Weight retained (g)	Cumulative Weight retained (g)	Cumulative % of weight retained	% of Passing	Specification Limits
40	0	0	0.0	100.0	100
20	792	792	8.6	91.4	85 - 100
10	7611	8403	91.1	8.9	0 - 20
4.75	722	9125	98.9	1.1	0 - 5
Pan	102				

SIEVE ANALYSIS OF 20mm (Single Size)

Sieve Size	\$\$7.1.1.		CARE.	Total weig	sht (g): 8359
(mm)	Weight retained (g)	Cumulative Weight retained (g)	Cumulative % of weight retained	% of Passing	Specification Limits
20	0	0	0.0	100.0	100
10	926	926	11.1	88.9	85 - 100
4.75	6529	7455	89.2	10.2	0 - 20
Pan	838	8293	99.2	0.8	0 - 5
-	66				

Negappallinam.

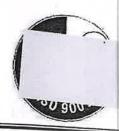
Grants: 'EGSP' Personal: 251114, Office: 251112, Charman: 224

Web site : www.egspec



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SIEVE ANALYSIS OF 12.5mm (Single Size)

Total weigh (g): 7750 Weight retained Sieve Size Cumulative Weight Cumulative % of % of Passing Specification retained weight retained Limits (mm) (g) (g) 16 0 0 0.0 100.0 100 12.5 550 550 7.1 92.9 85 - 100 10 3734 4284 55.3 44.7 0 - 454.75 3301 7585 97.9 2.1 0 - 10 Pan 165

SIEVE ANALYSIS OF 12.5mm (Single Size)

Total weight (a) . 2005

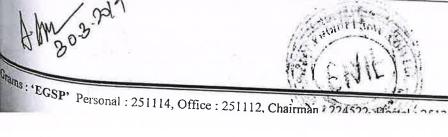
Sieve Size	Weight retained	Cumulative Weight		10tal weight (g): 8005		
(mm)	(g)	retained (g)	Cumulative % of weight retained	% of Passing	Specification Limits	
16	0	0	0.0	100.0		
12.5	422	422		100.0	100	
10	4070		5.3	94.7	85 - 100	
		4492	56.1	43.9	0 - 45	
4.75	3328	7820	97.7			
Pan	185		71.1	2.3	0 - 10	

Combined Aggregate Sample-01

SIEVE ANALYSIS OF COBINED AGGREGATE (20mm + 12.5mm) (Nominal Size)

[20mm:45%]: [12.5mm (55%]

Weight retained	Cumulative Weight retained (g)	Cumulative % of weight retained	% of Passing	Specification Limits
(6)	(g)			
		(F) 30		
0	0	0	100.00	100
483	483	3.2	96.8	95 - 100
10043	10526	70.2		
4267	14793			25 - 55
207		98.0	1.4	0 - 10
	10043	483 483 10043 10526 4267 14793	483 483 3.2 10043 10526 70.2 4267 14793 98.6	483 483 3.2 96.8 10043 10526 70.2 29.8 4267 14793 98.6 1.4



Dr. R. SIVARUM Professor & Head

Department of Civil Enginee



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Combined Aggregate Sample-02

SIEVE ANALYSIS OF COBINED AGGREGATE (20mm + 12.5mm) (Nominal Size)

[20mm:45%]: [12.5mm (55%]

Sieve Size	Weight retained Cumulative Weight		Cumulati): 15000	
(mm)	(g)	retained (g)	Cumulative % of weight retained	% of Passing	Specification Limits
40	0	0	0		
20	649	649		100.00	100
10	9517		4.3	95.7	95 - 100
1.55		10166	67.8	32.2	
4.75	4566	14732	-(*** 00.0	24.2	25 - 55
Pan	268		98.2	1.8	0 - 10

SIEVE ANALYSIS OF ALL-IN-AGGREGATE-01

(CA:FA) [Coarse aggregate: 58% Fine aggregate: 42%]

Blending: 20mm: 26.1% 12.5mm: 31.9% + M-Sand: 42%

Sieve Size	Weight retained	Cumulative Weight	Cumulative % of	Total weigh (g): 20000		
(mm)	(g)	retained (g)	weight retained	% of Passing	Specification Limits	
40	0	0	0.0			
20	462	462		100.0	100	
4.75	10904	6	2.3	97.7	95 - 100	
0 microns		11366	56.8	43.2		
0 microns	4476	15842	79.2		30 - 50	
	3471	19343		20.8	10 - 35	
Pan	657		96.7	3.3	0 - 6	

A. Dw 20.3.2019



Dr R. SWARUMAR, ME. Ph.D.

Professor & Head Department of Civil Engineering, Ł.G.S. Piliav Engineering College, **Ма**дарраніват.

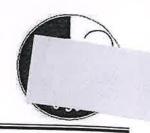
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SIEVE ANALYSIS OF ALL-IN-AGGREGATE-02

(CA:FA) [Coarse aggregate: 58% Fine aggregate: 42%]

Blending: 20mm:26.1% 12.5mm: 31.9 % + M-Sand: 42%

Total weigh (g): 20000

Weight retained	Cumulative Weight retained	Cumulative % of weight retained	% of Passing	Specification Limits	
(g)	(g)	» «	3		
0	0	0.0	100.0	100	
566	566	2.8	97.2	95 - 100	
11055	11621	58.1	41.9	30 - 50	
4182	15803	79.0	21.0	10 - 35	
3616	19419	97.1	2.9	0 - 6	
581			>		
	(g) 0 566 11055 4182 3616	retained (g) (g) 0 0 0 566 566 11055 11621 4182 15803 3616 19419	retained (g) (g) (eg) (veight retained veight retained veight retained (g) 0 0.0 0.0 566 566 2.8 11055 11621 58.1 4182 15803 79.0 3616 19419 97.1	retained (g) (g) (g) (o) 0.0 100.0 100.0 566 566 2.8 97.2 11055 11621 58.1 41.9 4182 15803 79.0 21.0 3616 19419 97.1 2.9	

Supervised by

Note:

1. Any correction without attestation will invalidate in the scentil

2. Materials were supplied by the job requester.

3. The results relate only to the samples tested.

pertificate Control

Head of the Dept.

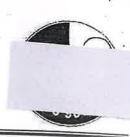
Professor & Head Department of Civil Engineering LIS Poles Engineering College, Nagappalinahi.

Gans: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114 Web site: www.egspec.org



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3877/2019

Date: 30.03.2019

AGGREGATE IMPACT VALUE

(IS: 2386 Part-4)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 25.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

Description			1	2	2
Weight of Surface Dry Sample passing IS Sieve 12.5 mm but retained on IS Sieve 10.0 mm	W_1	g	371.5	379.2	368.8
Weight of Fraction Passing I S Sieve 2.36 mm after the test	W ₂	g	83.5	82.1	80.9
Weight of Fraction Retained on IS Sieve 2.36 mm after the test	W ₃	g	287.7	296.7	287.6
$W_4 = W_1 - (W_2 + W_3)$		g	0.3	0.4	0.3
$A.I.V(\%) = (W_2/W_1) \times 100$		%	22.48	21.65	21.94
If W4 > 1 g. Test is to be died to		%		22.02	

4 > 1 g, Test is to be discarded

#Aggregate Impact Value: 22.02% (< 45 % for Concrete works)

pervised by

Note:

Any correction without attestation will invalid Materials were supplied by the job requester. The results relate only to the samples ested.

Head of the Dept.

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

E.G.S. Pillay Engineering College, Nagappattinam:

*is: 'EGSP' Personal: 251114. Office: 251112 Cha



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3879/2019

Date: 30.03.2019

FLAKINESS & ELONGATION INDEX

(IS: 2386 Part-1)

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 27.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

I.S Sieve	e size (mm)	Flakines	s Index [1]	Elongati	on Index [2]
Done:		Total Wt. of aggregate retained on sieves [A]	Wt. of aggregate passing through thickness gauge	Wt. of aggregate retained on thickness gauge	Wt. of aggregate retained on length gauge after retained
Passing	Retained	sieves [A]	[B]	[C]	on thickness gauge
63.0		(g)	(g)	(g)	[D]
	50.0	0	0		(g)
50.0	40.0	0	0	0	0
40.0	31.5	0		0	0
31.5	25.0	- 0	0	0	0
25.0	20.0	322	0	0	0
20.0	16.0		0	322	43
16.0		2005	198	1807	288
12.5	12.5	2379	256	2123	
	10.0	1969	287		308
10.0	6.3	2952		1682	121
Tot	tal		408	2544	586
	lakiness Indoi: (9627	1149	8478	1346

Flakiness Index (B/A) x 100:

Elongation Index (D/C) x 100:

11.94% < 15% 15.88%

Combined FI & EI (1+2)

27.81%

Supervised by

Note:

Any correction without attestation will invalidate in the

Materials were supplied by the job requester. 3. The results relate only to the samples tested. Head of the Dept

Dr. R. SIVAKUMAR, M.E.,Ph.C Professor & Head Department of Civil Engineering. E.G.S. Pillar Engineering College, Nagappattinam.

Gans: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

WATER TEST RESULTS (IS:456:2000)

Ref. No. EGSPEC/MTR/3880/2019

Date: 30.03.2019

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster, Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Source of Sample : Borewell water @ Athipadugai village

Date of tested: 27.03.2019

S. No.	Test Parameters	Requirement as IS 456:2000	Results
		Water used for mixing and and	Obtained
	General	acids, alkalis, salts, sugar, organic materials or other sub stains that may be deleted	Satisfactory
	pH value	concrete or steel	
	ml. of 0.02 N NaOH required to neutralize 100	≥6	7.1
	ml of 0.02 n H ₂ SO ₂ required to	5 max	1.20
	mixed fildicator	. 2534	1.20
10	Organic solids, mg/l	25 Max	21.10
	norganic solids, mg/l	200 Max	< 18
100	Sulphates as SO3, mg/l	3000 Max	1925
	Chlorides as CI, mg/I:	400 Max	220
	for concrete embedded steel		
	for reinforced concrete work	2000 Max	
Su	Ispended solids, mg/l	500 Max	458
fu	mished by the customer	2000 Max	< 29

vised by Note:

Any correction without attestation will invalidate in this certifica

Materials were supplied by the job requester

The results relate only to the samples teste

Prefessor & Head Department of Civil Engineering, E.G.S. Pillay Engineering College, Negappellinam.

**S: 'EGSP' Personal: 251114, Office: 251112, Chairman 522, Hostel: 251348, Fax: (04365) 251114 Web site: www.egspec.org



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3881/2019

Date30.03.2019

SPECIFICGRAVITY AND WATER ABSORPTION TEST

(IS: 2386 Part-3)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 25.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

[20MM]

S.No.	Description	I	Ш	III	Avg.
1.	Weight of saturated surface dried sample in air (SSD) (g)	2575.2	2440.2	2370.8	
2.	Weight of oven dried sample in air (g)	2565.2	2431.9	2362.2	,
3.	Weight of sample in water (g)	1665.5	1577.7	1535.4	
4.	Water Absorption $\frac{(1) - (2)}{(2)} \times 100 (\%)$	0.390	0.341	0.364	0.365
5.	Bulk specific gravity, (SSD) (1) (1) - (3)	2.831	2.829	2.838	2.833

Note:

Any correction without attestation will invalidate in 2. Materials were supplied by the job requester.

The results relate only to the samples tested.

Professor & Head Department of Civil Engineering, E.G.S. Pilley Engineering College, Nagappattinam.

**EGSP* Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3884/2019

Date: 30.03.2019

SPECIFIC GRAVITY AND WATER ABSORPTION TEST

(IS: 2386 Part-3)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Source of Sample : Stock yard @ Best Blue Metal, Karur.

Date of tested: 25.03.2019

[12.5MM]

		[12.5]VII	/1]				
S.No.	Description		14	I	п	III	Avg.
l.	Weight of saturated surface dried sat	nple in air (SSD)	(g)	1624.2	1870.5	1722.1	
2.	Weight of oven dried sample in air		(g)	1615.2	1861.9	1715.0	
3.	Weight of sample in water		(g)	1047.1	1207.5	1110.4	
4.	Water Absorption	$\frac{(1) - (2)}{(2)} \times 100$	(%)	0.557	0.462	0.418	0.478
. 1	Bulk specific gravity, (SSD)	(1) (1) - (3)		2.814	2.821	2.815	2.817
	1 29						

Supervised by

Note:

1. Any correction without attestation will invalidate

2. Materials were supplied by the job requeste 3. The results relate only to the samples tested.

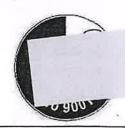
Pro:essor & Head Department of Civil Engineering. L.G.S. Pillay Engineering College, Nagappattinam.

** (04365) 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3885/2019

Date: 30.03.2019

SPECIFIC GRAVITY AND WATER ABSORPTION TEST

(IS: 2386 Part-3)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 25.03.2019

Source of Sample: Stock yard @ Best Blue Metal, Karur.

[M-SAND]

S.No.	Description		I	II	III	Avg.	
1,	Weight of saturated surface dried s	ample in air (SSD)	(g)	535.6	555.2	527.4	
2.	Weight of oven dried sample in air		(g)	530.5	549.2	522.1	
3.	Weight of Pycnometer bottle filled with water (g)				1608.8	1608.8	
4.	Weight of Pycnometer bottle + wat	er + sample	(g)	1948.5	1960.3	1942.5	
5.	Water Absorption	(1) - (2) (2) x 100	(%)	0.961	1.092	1.015	1.023
6.	Bulk specific gravity, (SSD)	(1) (1) +(3) -(4)		2.734	2.726	2.723	2.727

Note:

I. Any correction without attestation will

2. Materials were supplied by the job requester

3. The results relate only to the samples tes

Head of the Dept.

Dr. R. SIVAKUMAR, M.E., Ph.D. Prefesser & Head Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagappattinam.

EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3886/2019

Date: 30.03.2019

SPECIFIC GRAVITY OF CEMENT

(IS: 2386 Part-3)

To

The Assistant Engineer (Roads) p.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Date of tested: 27.03.2019

Brand of Cement: Coromandel Grade of Cement: OPC-53

Week No: 10th

[CEMENT]

S. No.	Description	I	п	Average		
1	Weight of Empty Specific Gravity Bottle	W1	(g)	54.92	54.92	
2.	Weight of Specific Gravity Bottle + Kerosene	W2	(g)	133.92	133.92	
3.	Weight of Specific Gravity Bottle + Half filled with Cement	W3	(g)	84.73	85.16	
4.	Weight of Specific Gravity Bottle + Cement + Kerosen	W4	(g)	156.15	156.48	
5.	Specific Gravity: (W3 - W1) x Sp. Gravity of (W2-W1) - (W4-W3) (Kerosene Sp. 6)		1	3.146	3.150	3.148

Supervised by

Note:

Any correction without attestation will in

2. Materials were supplied by the job reque

3. The results relate only to the samples test

Prolessor & Head Department of Civil Engineering, E.G.S. Pillay Engineering College, Negappattinam.

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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3897/2019

Date: 27.04.2019

CEMENT TEST RESULTS

(IS: 269: 2015)

To

The Assistant Engineer (Roads)

P.W.D. Karaikal District.

Name of Work : PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference : 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on : 24.03.2019 Date of Cement tested: 27.03.2019

Mortar Cubes Casted Date: 30.03.2019

Date of Mortar cubes testing(3days): 02.04.2019, (7days): 06.04.2019, (28days): 27.04.2019

Bı	rand of Cement: Coromande	el Gra	de of Cemen	ıt: Oì	PC-53	We	ek No: 10 th	
				Tes	st Results		Specification Limit	s
							(IS: 269: 2015)	
l.	Normal Consistency of Ceme	ent	(%)	:	31.5 %	1	-	
2.	Setting Time		2)					
	Initial Setting Time		(minutes)		135		Min. 30	
	Final Setting Time		(minutes)	245	315		Max. 600	
3.	Fineness of Cement		(%)	:	2.95		10%	
ı	(By Drying Sieve)							
4.	Soundness of Cement		(mm)	:	3.22		Max. 10 mm	
ŧ	(Le-Chatelier							
\$.	Method) Specific Gravity			600	3.148			
6.	Compressive Strength of C	amant Mautau Cu	haa		3.140			•6
1	•				22.07		16. 2716	
Ł		h, Min)	Mpa	:	32.97		Min, 27 Mpa	
B		2 h, Min)	Mpa	11	44.07		Min, 37 Mpa	
П	28 days (672 ±	4 h, Min)	Mpa		58.52		Min, 53 Mpa	
1	28 days (672±.	019	ENGINE	RING	H	a	12/	95
1	Supervised by	- //		1	ēl.	Head	of the Dept.	
1	Note:	N.	of CIV	IL) E).	Dr. R. SI	VARUMAR, M.E.	Ph.D.
1	Any correction withou Materials were supplied			licate/	' //	Departm	rolessor & Head ent of Civil Findings	ring
- 3	2. Materials were supplied	od of the job requester	$H^* \sim$	/.v	//	J. G. S. Pil	iav Engines ing Co	uesa

**EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

Web site: www.egspec.org



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The results relate only to the samples tested.

Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MT/3891/2019

Date: 02.04.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES

(IS: 4031 Part -7)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Brand of Cement : Coromandel

Grade of Cement: OPC-53

Week No: 10th

Date of Casted

: 30.03.2019

Date of tested (3 days): 02.04.2019

Size of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc Area of Cube: 49.84cm²

S. No.	Mortar Cube	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
	No.	g	g/cc		KN	(N/mm²)	(N/mm ²)	
1	1	836	2.376	3	172	34.51		
2	2	842	2.393	3	156	31.30	32.97	
3	3	833	2.367	3	165	33.11		

Average compressive Strength: 32.97 N/mm² [Minimum: 27 Mpa.]

#3 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

Supervised by

Note:

1. Any correction without attestation will in an

2. Materials were supplied by the job reques

3. The results relate only to the samples tested

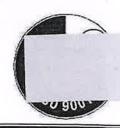
Dr. Head of the Dept. WE P D

Ocostates of Civil Engineering E.G.S. F. Hav Engineering Consails маниводеран мам



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3892/2019

Date: 06.04.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES

(IS: 4031 Part -7)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Brand of Cement: Coromandel

Grade of Cement: OPC-53

Week No: 10th

Date of Casted

: 30.03.2019

Date of tested (7 days): 06.04.2019

Size of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc Area of Cube: 49.84cm²

S. No.	Mortar Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm ²)	(N/mm ²)	
1	4	846	2.404	7	211	42.34		
2	5	837	2.379	7	229	45.95	44.07	
3	6	840	2.387	7	219	43.94		

Average compressive Strength: 44.07 N/mm² [Minimum: 37 Mpa.]

#7 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

Note:

1. Any correction without attestation will invalidate in this certificate

2. Materials were supplied by the job requester.

3. The results relate only to the samples tested.

Prefessor & Head Department of Civil Engineering E.G.S. Pillay Engineering Cellege, Nagappallinam.

**EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MT/3896/2019

Date: 27.04.2019

COMPRESSIVE STRENGTH OF CEMENT MORTAR MIX CUBES

(IS: 4031 Part -7)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Brand of Cement : Coromandel

Grade of Cement: OPC-53

Week No: 10th

Date of Casted

: 30.03.2019

Date of tested (28 days): 27.04.2019

Size of Mortar Cube: 7.06cm x 7.06cm x 7.06cm Volume of cube: 351.896cc

Area of Cube: 49.84cm²

S. No.	Mortar Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
	No.	g	g/ce KN		(N/mm ²)	(N/mm²)		
1	7	841	2.390	28	292	58.59		-
2	8	847	2.407	28	284	56.98	58.52	
3	9	838	2.381	28	299	59.99		

Average compressive Strength: 58.52 N/mm² [Minimum: 53 Mpa.]

#3 days Cement Mortar Cubes Compressive Strength test results are within the specification limits.

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Note:

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Materials were supplied by the job requester

3. The results relate only to the samples tested.

Head of Dr R. SIVAKUMAR, M.E., Ph.D.

Proiessor & Head Department of Civil Engineering. E.G.S. Piliay Engineering College, Nagappauinam.

*: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3888/2019

Date: 01.04.2019

CONCRETE MIX DESIGN [PILE M30]

(IS 10262-2019 & IS 456-2000)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 31.03.2019

	SOURCES OF MATERIALS		11
	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	:	PILE M30
2	Type of cement	1	OPC-53 Grade
3	Max. Nominal Size of aggregate		20mm
4	Minimum Cement Content	:	400 Kg/cu.m
5	Maximum Water cement ratio	:	0.40
6	Workability	1	150mm - 20mm
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
1	Type of aggregate	:	Angular
12	Maximum Cement content	:	450 Kg/Cum
13	Type of admixture	2	Super plasticizer cum retarder

A-mol.04-2019

CIVIL)

Dr. R. SIVAKUMAR ME. Ph.B

"'EGSP' Personal: 251114, Office: 251112 Chairman - 724522, Hostel: 251348 Egs. (Billion Engineering.

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	Proportion of Coarse aggregate: Fine aggregate	te	
1	% of C/A to the total weight of aggregate	W-1000000	58%
2	% of F/A to the total weight of aggregate		42%
	Proportions in C/A:	7	
3	% of 20 mm	:	45%
4	% of 12.5 mm		65%
5	Specific gravity of 20 mm	:4	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:	1.023%
14	Free surface moisture of M-Sand	3.	1.20%
15	Specific Gravity of Cement	:	3.148
16	Specific Gravity of Admixture	:	1.18
	MIX CALCULATION	A	
1	Target Mean strength	1:1	38.25 N/mm ²
2	Water Cement ratio		0.39
3	Mass of cement		430.000 Kg
4	Mass of water		167.700 Kg
5	Dosage of chemical admixture		1.25%
6	Mass of chemical admixture		5.375 Kg

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Dr R. SIVAKUMAR, M.E., Ph.L.

ns: 'EGSP' Personal: 251114, Office: 251112,

Web site: www.org

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	VOLUME OF CONCRETE		1.000 Cum
1	Volume of cement		0.137 Cum
2	Volume of Water		0.168 Cum
3	Volume of Chemical admixture		0.005 Cum
4	Volume of all-in-aggregate	:	0.691 Cum
5	Mass of coarse aggregate	11 3	1132 Kg
	Mass of 20mm		509 Kg
	Mass of 12.5mm		623 Kg
6	Mass of Fine aggregate (M-Sand)		792 Kg

MIX PROPORTION

Ingredients	Per m ³ in SSD Condition Kg.—	Per bag of cement in SSD Condition Kg.
Cement	430	50.0
Water	168	22.0
Fine aggregate (M-Sand)	792	92.0
20mm	509	59.2
12.5mm	623	72.4
Chemical admixture	5.375	0.63

	Cement	F/A	C/A	Water Cement ratio
Proportion:	1	1.84	2.63	0.39

		Slump Retention	<u>n</u>	
	Initial	30!	60'	90'
Slump observation(mm)	Collapse	Collapse	205,210	155,162
Date of Casting			31.03.2019	
No. of Cubes casted			12 No's	

Temperature of Mix: 31.0 °C

Observations: Mix is cohesive

Workability: Good

Supervised by

Note:

1. Any correction without attestation will invalid

2. Materials were supplied by the job requester.

3. The results relate only to the samples tested

Head of the Rept.

Dr. R. SIVAKUMAR, M.E., Ph.D.

Professor & Head

Department of Civil Engineering.

E.G.S. Pillay Engineering College, Nagappaumam.

hs: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114 Web site: www.egspec.org



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3889/2019

Date: 02.04.2019

CONCRETE MIX DESIGN [M30 RCC]

(IS 10262-2019 & IS 456-2000)

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 01.04.2019

_	SOURCES OF MATERIALS	_	D. (DI. M. C. I. V.
l	Coarse aggregate: 20mm & 12.5mm	:	Best Blue Metal, Karur
2	Fine aggregate: M-Sand	:	Best Blue Metal, Karur
3	Cement brand	3	Dalmia Cement
4	Admixture brand	:	Sika India Pvt. Ltd.,
	DESIGN STIPULATIONS	0	=
1	Grade Designation	;	M30 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	1	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 frod 09-2019

CIVIL

DE R. SIVAKUMARI M.E. Ph.D.

Prolessor & Head

ms: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, IEGSP' Personal: 251114, Office: www.egspec.org



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	Proportion of Coarse aggregate: Fine aggregat	e	
	% of C/A to the total weight of aggregate	:	58%
	% of F/A to the total weight of aggregate	:	42%
	Proportions in C/A:		
3	% of 20 mm		45%
1	% of 12.5 mm		65%
5	Specific gravity of 20 mm	:	2.833
6	Specific gravity of 12.5 mm	Acres (Acres)	2.817
7	Combined specific gravity of C/A	3	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		7
1	Target Mean strength		38.25 N/mm ²
2	Water Cement ratio		0.44
3	Mass of cement	:	405.000 Kg
4	Mass of water		178.200 Kg
5	Dosage of chemical admixture		0.70%
6	Mass of chemical admixture	2	2.835 Kg

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CIVIL

Dr. R. SIVAKUMARIME, Ph.D.

s: 'EGSP' Personal: 251114, Office: 251

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Section of Civil Engineering,

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	T CONCRETE		1.000 Cum
	VOLUME OF CONCRETE		
		1	0.129 Cum
1	Volume of cement	- HOR FIRE	0.178 Cum
2	Volume of Water	# = = = =	0.002 Cum
3	Volume of Chemical admixture		0.691 Cum
4	Volume of all-in-aggregate	:	
	Mass of coarse aggregate		1131 Kg
5			509 Kg
	Mass of 20mm		622 Kg
	Mass of 12.5mm		791 Kg
6	Mass of Fine aggregate (M-Sand)	1 2	771 Ng

MIX PROPORTION

Ingredients	Per m ³ in SSD Condition	Per bag of cement in SSD Condition
3000	Kg.	Kg.
Cement	405	50.0
	178	22.0
Water	791	97.7
Fine aggregate (M-Sand)	509	62.9
20mm		76.8
12.5mm	622	
Chemical admixture	2.835	0.35

	Cement 1	F/A	C/A	Water Cement ratio	
Proportion:	Cement	1.95	2.79	0.44	
-	1	1.93			

		Slump Reten	tion		
T	Initial	30'	60'	90'	
n 1 + + ()	168,175	142,135	108,105	74,70	
Slump observation(mm)	100,173	01.04.2019			
Date of Casting No. of Cubes casted			12 No's		

Temperature of Mix: 31.9 °C

Observations: Mix is cohesive

Workability: Good

Supervised by

Note:

Any correction without attestation will invalidate

2. Materials were supplied by the job requested

The results relate only to the samples tested.

DE R. SIVAKOMAR M.E. Ph.D. Processor & Head Department of Civil Engineering, E.G.S. Piliay Engineering College, Nagappailinam.

ins: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114 Web site: www.egspec.org



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3891/2019

Date: 07.04.2019

COMPRESSIVE STRENGTH OF CONCRETE MIX DESIGNCUBES [PILE M30]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

ar games

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 31.03.2019

Grade of Concrete

: PILE M30 [Nominal Size of Aggregate: 20mm]

Cement Content: 430 Kg/m³

Date of Cubes casting: 31.03.2019

Date of Testing (7 days): 07.04.2019

Characteristic Compressive Strength: 30 N/mm²

Target Mean Strength (28 days): 38.25 N/mm²

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

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm²)	Average Compressive. Strength (N/mm²)	Remarks
1	1	8571	2.540	7	755	33.56	33.01	
2	2	8678	2.571	7	770	34.22		
3	3	8609	2.551	7	703	31.24		<u></u>
4	7	8569	2.539	7	678	30.13		
5	8	8675	2.570	7	750	33.33	31.53	
6	9	8631	2.557	7	.700	31.11		

Average compressive Strength: 32.27 N/mm² [Target mean strength for 7days: ≥ 25.63 N/mm²]

#28 days Cubes Compressive Strength test results are awaited.

Note:

Any correction without attestation will invalidate in this certificate

Materials were supplied by the job requester.

The results relate only to the samples tested

Head of the Dept.

D. R. SIVAKUMAR, ME, Ph.D.

Diotesso: & Head

Department of Civil Singingering

E.G.S. Pinay Engineering College, Nagapual inami

S: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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(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/MTR/3902/2019

Date: 28.04.2019

COMPRESSIVE STRENGTH OF CONCRETE MIX DESIGNCUBES [PILE M30]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 31.03.2019

Grade of Concrete

: PILE M30 [Nominal Size of Aggregate: 20mm]

Cement Content: 430 Kg/m³

Date of Cubes casting: 31.03.2019

Date of Testing (28 days): 28.04.2019

Characteristic Compressive Strength: 30 N/mm²

Target Mean Strength (28 days): 38.25 N/mm²

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

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density	Age in days	Failure Load	Compressive Strength	Average Compressive Strength	Remarks
		g	g/cc		KN	(N/mm ²)	(N/mm ²)	
1	4	8666	2.568	28	956	42.49		
2	5	8539	2.530	28	970	43.11	42.61	-
3	6	8605	2.550	28	950	42.22		
4	10	8557	2.535	28	933	41.47		
5	11	8587	2.544	28	967	42.98	42.15	
6	12	8598	2.548	28	945	42.00		

Average compressive Strength: <u>42.38</u> N/mm² [Target mean strength for 28days: ≥ <u>38.25</u> N/mm²] # 28 days Cubes Compressive Strength test results are within the specification limits.

Note:

Any correction without attestation will have

Materials were supplied by the job red

3. The results relate only to the samples to

Head of the Dept. Dr. R. SIVAKUMAR, M.E. Ph.D. itment of Civil Engineering. E.G.S. Pillay Engineering Callage, Nagappallisem,

S: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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(Affiliated to Anna University Chennai)



Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3892/2019

Date: 08.04.2019

COMPRESSIVE STRENGTH OF CONCRETE MIX DESIGNCUBES [M30 RCC]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 01.04.2019

Grade of Concrete

: M30 RCC [Nominal Size of Aggregate: 20mm]

Cement Content: 405 Kg/m³

Date of Cubes casting: 01.04.2019

Date of Testing (7 days): 08.04.2019

Characteristic Compressive Strength: 30 N/mm²

Target Mean Strength (28 days): 38.25 N/mm²

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

Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)	Remarks
1	1	8596	2.547	7	793	35.24		
2	2	8557	2.535	7	769	34.18	35.14	
3	3	8671	2.569	7	810	36.00		
4	7	8625	2.556	7	779	34.62		
5	8	8601	2.548	7	792	35.20	34.46	
6	9	8588	2.545	7	755	33.56		

Average compressive Strength: 34.80 N/mm^2 [Target mean strength for 7days: $\geq 25.63 \text{ N/mm}^2$]

28 days Cubes Compressive Strength test results are awaited.

Supervised by

Note:

1. Any correction without attestation will invalidate in

2. Materials were supplied by the job request

3. The results relate only to the samples tested

Dr. Hessivakonak, M.E. Protessor & Head

Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagappattinam.

s: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3903/2019

Date: 29.04.2019

COMPRESSIVE STRENGTH OF CONCRETE MIX DESIGNCUBES [M30 RCC]

[As per IS:516]

To

The Assistant Engineer (Roads) P.W.D. Karaikal District.

Name of Work

: PW-AE(R)-KKL - Construction of bridge across river Arasalar at Athipadugai

village connecting Arulmozhidevan village in Thirunallar cluster,

Karaikal District.

Reference

: 1642/PW/SDR/KKL-2019-20 Dated: 23.03.2019

Requested on

: 24.03.2019

Concrete Mix Design date: 29.01.2019

Grade of Concrete

: M30 RCC [Nominal Size of Aggregate: 20mm]

Cement Content: 405 Kg/m³

Date of Cubes casting: 01.04.2019

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

Date of Testing (28 days): 29.04.2019

Characteristic Compressive Strength: 30 N/mm²

Target Mean Strength (28 days): 38.25 N/mm² Volume of cube: 3375cc

Area of Cube: 225Cm²

S. No.	Cube No.	Weight of Cube	Density g/cc	Age in days	Failure Load KN	Compressive Strength (N/mm²)	Average Compressive Strength (N/mm²)	Remarks
1	4	8577	2.541	28	990	44.00	44.41	
2	5	8672	2.569	28	1033	45.91		
3	6	8578	2.542	28	975	43.33		
4	10	8679	2.572	28	956	42.49		
5	11	8598	2.548	28	988	43.91	43.16	
6	12	8659	2.566	28	969	43.07		

Average compressive Strength: 43.79 N/mm² [Target mean strength for 28days: ≥ 38.25 N/mm²] # 28 days Cubes Compressive Strength test results are within the specification limits.

Note:

Any correction without attestation will inv

Materials were supplied by the job requester

The results relate only to the samples teste

Head of the Den Dr R. SIVAKUMAR, M.E. Ph.D.

Professor & Head Department of Civil Engineering

E.G.S. Piliay Engineering College, Nagappadinam.

ns: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

Public Works Department Water Resources Organization

From
Er.S. Gnanasekaran, B.E.,
Executive Engineer, PWD/WRD,
Project Implementation Unit-II,
Nagapattinam

To Head of the Department, Department of Civil Engineering., EGS Pillai Engineering Collage, Nagapattinam

Lr.No: DB/DO/ADB/2020/ Dated: 04.02.2020

Sub: ADB – CAVSCD Project – Infrastructure Improvements and Reconstruction works on Harichandranathi– from LS 121.260 km to 160.210 Km & Lawford Straight Cut from LS 0.00 Km to 3.900 Km. – Lab Testing – Lab testing – Wet Mix Macadam (WMM) samples- (3 samples)- Regarding.

Sir.

With reference to the above subject, we would like to submit Wet Mix Macadam (WMM) Samples- 3 No.s, collected from Stock yard @ Sithaimoor Railway Bride.

Source of Material: Sri Murugan Metals, Padalur

Kindly conduct the following necessary tests on the above said samples may please be tested as per the above and reported its suitability against as per MoRT&H V Table-400-12& Table-400-13 (Wet Mix Macadam) at the earliest.

Encl: As stated above

Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,
Nagapattinam.



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Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3387/2020

Date: 10.02.2020

1. Name of the Client

The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

2. Client Reference No:

Lr.No: DB/DO/ADB/2020/ Dated: 03.02.2020

3. Name of the Work

ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details

Wet Mix Macadam (WMM) samples - 3 No.s

(Stockyard & Sithaimoor Railway Bridge)

5. Sample received

04.02.2020

6. Sample test date

05.02.2020

7. Test conducted by

Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

Head of the Department

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

: 10-Feb-2. : : Cash EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 19400 19400.00 Course Mode of Payment Amount RECEIPT Date AMOUNT WILL NOT BE REF TESTING BILL Rupees: nineteen Thousand four Hundred Fifty Only W.R.O INAGAI Fees Type fure and Name Bill No Name Roll No YEAR Payee's Sigast

Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,
Nagapattinam.

TEST REPORT ON SOIL ANALYSIS

Project Name: Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121,260 Km to 160,200 Km & Lawford straight cut L.S 0.0 to 3.90 Km.

Soil Samples collected @ L.S 154.200 Km to 154.650 Km [Left Bank], & L.S 155.700 Km to 156.300 Km [Left Bank] & 156.300 Km to 156.750 Km

[Left Bank]

Swell Index (%) Gravel (%) Sand (%) Silt (%) Clay (%) Finencs Silt (%) 26.32 1 46 30 23 51 25.00 0 44 32 24 56 29.41 0 44 29 27 56 8 30.00 0 45 27 54	- 1		1	1		Crair	Size A	nalvsis		Classification	Atter	Atterberg's Limit	imit	Modified	LLOCIOL	Modified Process Nemain
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Left Bank 29.41 0 44 29 27 56 Left Bank 30.00 0 45 27 27 54	1.00		Bank	_											00.91	
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Note: As furnished by the customer, the results related to the item tested

Supervised by

Dr. Meglyafkunder, M.E., Ph.D. Professor & Head Department of Civil Engineering, E.G.S. Pillay Engineering College, Negappattinam.

Public Works Department Water Resources Organization

From
Er.S. Gnanasekaran, B.E.,
Executive Engineer, PWD/WRD,
Project Implementation Unit-II,
Nagapattinam

To
Head of the Department,
Department of Civil Engineering.,
EGS Pillai Engineering Collage,
Nagapattinam

Lr.No: DB/DO/ADB/2019/ Dated: 28.11.2019

Sub: ADB – CAVSCD Project – Infrastructure Improvements and Reconstruction works on Harichandranathi– from LS 121.260 km to 160.210 Km & Lawford Straight Cut from LS 0.00 Km to 3.900 Km. – Lab Testing – Lab testing – Granular Sub-Base (GSB) Grading-v samples - (3 samples)- Regarding.

Sir,

With reference to the above subject, we would like to submit GSB Samples, collected from Stock yard @ Alangudi Regulator.

Source of Material: Sri Murugan Metals, Padalur

Kindly conduct the following necessary tests on the above said samples may please be tested as per the above and reported its suitability against as per MoRT&H V Table-400-1 Grading-V & Table-400-2 (Granular Sub-Base) at the earliest.

Encl: As stated above

Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,
Nagapattinam.



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Consultancy services

(Department of Civil Engineering)

3ef. No. EGSPEC/MTR/3319/2019

Date: 06.12.2019

The Executive Engineer., 1. Name of the Client:

Project Implementation Unit-II

Nagapattinam.

Lr.No: DB/DO/ADB/2019/ Dated: 28.11.2019 2. Client Reference No:

ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction 3. Name of the Work

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

Granular Sub Base (GSB Grading V) samples - 3 No.s 4. Sample details

(Stockyard & Alangudi Regulator)

28.11.2019 Sample received

30.11.2019 Sample test date

Mr. A. Arjunan. Assistant Professor. 7. Test conducted by

Encl: Test Report

Head of the Department

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

OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

RECEIPT

946 W.R.O /NAGAI

Course Mode of Payment Dafe

: 06-DEC-2019

: Cash

TESTING BILL

Fees Type

Amount

Rupees: Twenty four Thousand two Hundred Fifty Only

AMOUNT WILL NOT BE REFUNDED

24250.00

24250

ure and Name

Payee's Sidrick

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

TEST REPORT ON SOIL ANALYSIS

Project Name: Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km & ak], & L.S 149.650 Km to 150.800 Km [Left Bank] Lawford straight cut L.S 0.0 to 3.90 Km.

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Note: As furnished by the customer, the results related to the item tested

Head of the Dept.

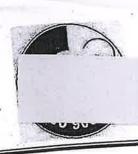
Dr. R. SIVAKUMAR, M.E., Ph.D.
Professor & Head
Department of Civil Engineering.
E.G.S. Pillay Engineering College,
Nagappattinam.



E.G.S. PILLAY ENGINEERING COLLEGE

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Date: 06.12.2019

Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3319/2019

1. Name of the Client

The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

Client Reference No:

Lr.No: DB/DO/ADB/2019/ Dated: 28.11.2019

3. Name of the Work

ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details

Granular Sub Base (GSB Grading V) samples - 3 No.s

(Stockyard & Alangudi Regulator)

Sample received

28.11.2019

6. Sample test date

30.11.2019

Test conducted by

Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

Head of the Department

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

TEST REPORT ON SOIL ANALYSIS

Remark

Modified Proctor OMC (%) Project Name: Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km & MDD (g/cc) cted @ - L.S 148.400 Km to 149.200 Km [Left Bank], & L.S 149.650 Km to 150.800 Km [Left Bank] Lawford straight cut L.S 0.0 to 3.90 Km.

otal IS: 1498- (%) (%) (%) (%) (%) senes 1970	
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Note: As furnished by the customer, the results related to the item te

Supervised by

Dr. R. SIVAKUMAR, M.E., Ph.D.

Public Works Department

Water Resources Organization

From Er.S. Gnanasekaran, B.E., Executive Engineer, PWD/WRD, Project Implementation Unit-II, Nagapattinam

To
Head of the Department,
Department of Civil Engineering.,
EGS Pillai Engineering Collage,
Nagapattinam

Lr.No: DB/DO/ADB/2019/ Dated: 26.11.2019

Sub: ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction works on Harichandranathi- from LS 121.260 km to 160.210 Km &Lawford Straight Cut from LS 0.00 Km to 3.900 Km. - Lab Testing - Lab testing - Blanket Course samples [Gravel:70% + Sand: 30%] - (3 samples)- Regarding.

Sir,

With reference to the above subject, we would like to submit Blanket course Samples [Gravel:70% + Sand: 30%] - (3 samples)- collected from stock yard @ Brinjumoolai.

Kindly conduct the following necessary tests on the above said sample

Grain size Analysis - as per IS:2720 (Part-4)
Free Swell Index - as per IS:2720 (Part-40)
LL/PL - as per IS:2720 (Part-5)
MDD/OMC - as per IS:2720 (Part-8)
CBR Value - as per IS:2720 (Part-16)

The sample may please be tested as per the above and reported its suitability against IS:2720 at the earliest.

Encl: As stated above

Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,
Nagapattinam.



E.G.S. PILLAY ENGINEERING COLLEGE

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(Affiliated to Anna University Chennai)



Consultancy services (Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3317/2019

Date: 06.12.2019

1. Name of the Client :

The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

2. Client Reference No:

Lr.No: DB/DO/ADB/2019/ Dated: 26.11.2019

3. Name of the Work

ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details

Blanket Course -3 samples [Gravel:70% + Sand: 30%]

(Stock yard @ Brinjumoolai)

5. Sample received

27.11.2019

6. Sample test date

28.11.2019

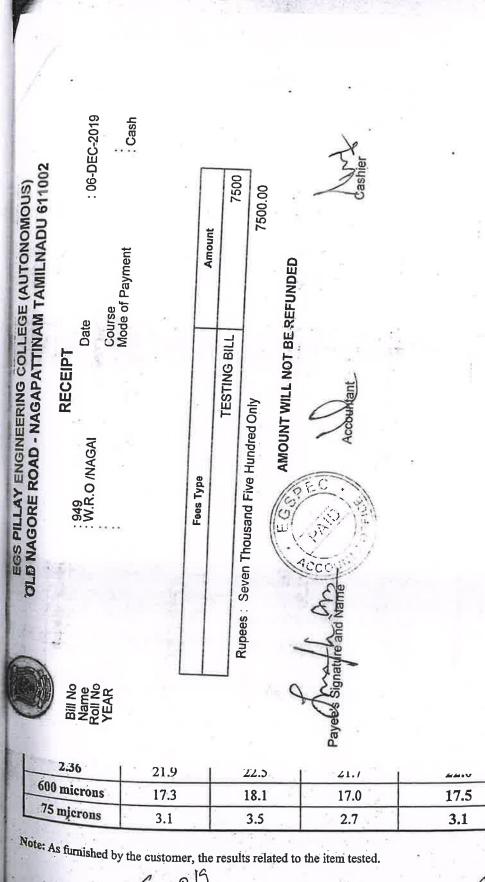
7. Test conducted by

Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

Head of the Department

Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,
Magappattinam.



Supervised By.

Dr. PHSIVAKUMDERM.
Professor & Head
Department of Civil Engin
E.G.S. Pillay Engineering

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n: 2

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TEST REPORTS ON WET MIX MACADAM [WMM]

Project Name:Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km.

Source of Material: Sri Murugan Metals, Padalur.

Location: Stock yard @ Sithaimoor Railway Bridge

As per MoRT&H -V Table- 400-12 Physical requirement for Coarse Aggregates for Wet Mix Macadam

	71 - 74	IOI WEI MIA MA		
S.No	Type of Test	Test method	Achieved values	As per Specification Limit
1	Aggregate Impact Value (AIV)	IS:2386 Part-4	17.55 %	Maximum: 30 %
2	Atterberg's Limits Limit Liquid Limit Plasticity Index	IS:2720 Part-5	19.10 % Non-Plasticity	≤: 6%
3	Water Absorption	IS:2386 Part-3	0.41 %	Maximum: 2%
4	Proctor Compaction (MDD/OMC)	IS:2720 Part-8	MDD: 2.430 g/cc OMC: 6.15%	
5	Combined Flakiness and Elongation indices (Total)	IS:2386 Part-1	29.55 %	Maximum: 35%

As per MoRT&H -V Table 400-13 Grading Requirements of Aggregates for Wet Mix Macadam

Sieve size	Grain size	distribution (% Passing)	Average% Passing	Specification limits as per MoRT&H V, Table 400-13	
(mm)	Sample-01 Sample-02		Sample-03		
53.0	100	100	100	100	100
45.0	98.5	100	97.7	98.7	95-100
22.4	67.5	73.2	69.9	70.2	60-80
11.2	50.3	53.1	47.2	50.2	40-60
4:75	33.7	34.1	32.9	33.6	25-40
2.36	21.9	22.5	21.7	22.0	15-30
600 microns	17.3	18.1	17.0	17.5	8-22
75 microns	3.1	3.5	2.7	3.1	0-5

Note: As furnished by the customer, the results related to the item tested.

Supervised By.

Department of Civil Engineering, E.G.S. Pillay Engineering College,

Nagappattinam.

Public Works Department

Water Resources Organization

From

Er.S. Gnanasekaran, B.E., Executive Engineer, PWD/WRD, Project Implementation Unit-II, Nagapattinam To
Head of the Department,
Department of Civil Engineering.,

EGS Pillai Engineering Collage,

Nagapattinam

Lr.No: DB/DO/ADB/2019/ Dated: 22.11.2019

Sub: ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction works on Harichandranathi- from LS 121.260 km to 160.210 Km & Lawford Straight Cut from LS 0.00 Km to 3.900 Km. - Lab Testing - Lab testing - Gravel samples - (3 samples)-Regarding.

Sir,

With reference to the above subject, we would like to submit Gravel Samples (3 samples)- collected from stock yard @ Brinjumoolai.

Kindly conduct the following necessary tests on the above said sample

 Grain size Analysis
 as per IS:2720 (Part-4)

 Free Swell Index
 as per IS:2720(Part-40)

 LL/PL
 as per IS:2720 (Part-5)

 MDD/OMC
 as per IS:2720 (Part-8)

 CBR Value
 as per IS:2720 (Part-16)

The sample may please be tested as per the above and reported its suitability against IS:2720 at the earliest.

Encl: As stated above

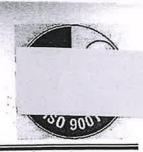
Executive Engineer, PWD/WRD.,, Project Implementation Unit-II, Nagapattinam.



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NAGAPATTINAM - 611 002.

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(Affiliated to Anna University Chennai)



Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3313/2019

Date: 03.12.2019

1. Name of the Client : The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

2. Client Reference No: Lr.No: DB/DO/ADB/2019/ Dated: 22.11.2019

3. Name of the Work : ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details : Gravel -3 samples (Stock yard @ Brinjumoolai)

5. Sample received : 22.11.2019

6. Sample test date : 25.11.2019

7. Test conducted by : Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

Head of the Department

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

Nagappattinam.

Grams: 'EGSP' Personal: 251114. Office: 251112 Chairman: 224522 Hostal: 251249 Frances 25111

GSB Grading-V)

chandranathi from L.S 121.260 n.

OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Date RECEIPT 825 W.R.O /NAGAI

03-Dec-2019

Cash

Course Mode of Payment

Amount Fees Type

15250.00 TESTING BILL Rupees: fifteen Thousand two Hundred Fifty Only

15250

AMOUNT WILL NOT BE REFUNDED

[aterials

erage% 'assing chieved)	Specification limits as per MoRT&H V, Table 400-1, Grading V
100	100
94.2	80-100
68.5	55-90
40.1	35-65
31.9	25-50
18.2	10-20
8.2	2-10
3.6	0-5

alues	As per Specification Limit
Ö	Maximum: 40 %
-	1
6	Maximum: 25%
icity	Minimum: 6%
,	Maximum: 2%
g/cc	
ó	Minimum: 30%

CBR at 98% Compaction

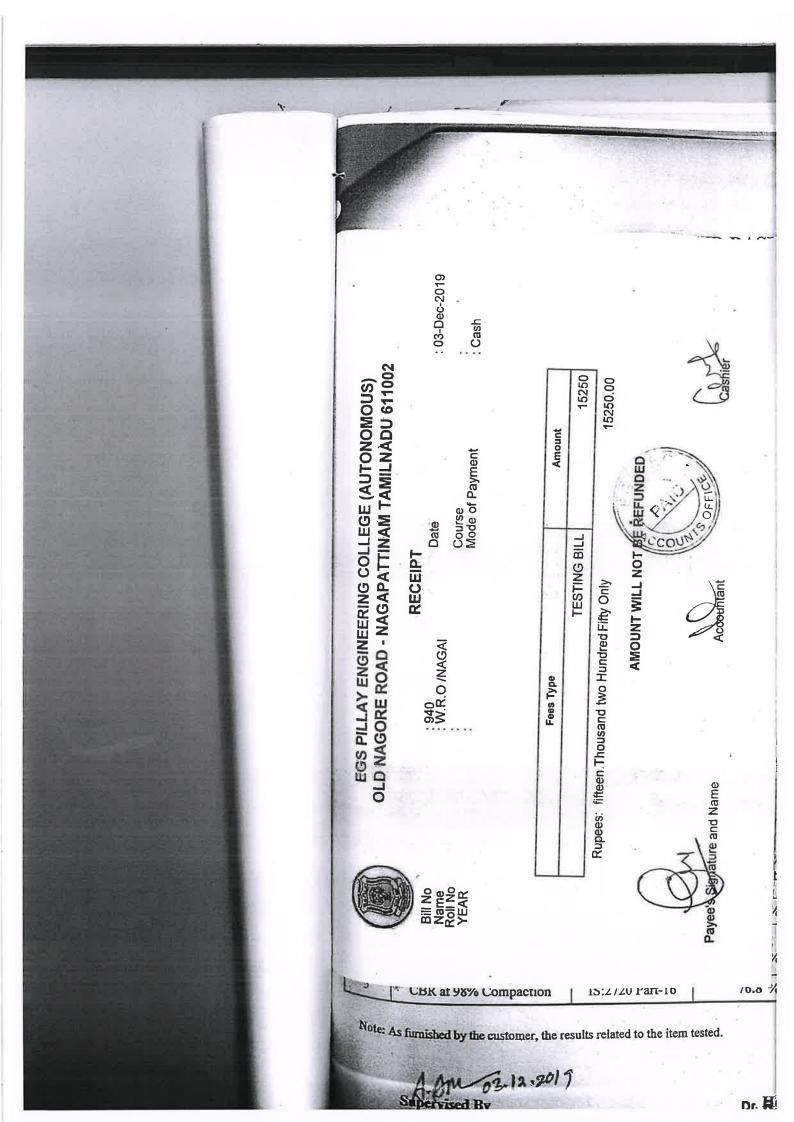
IS:2720 Part-16

76.8

Note: As furnished by the customer, the results related to the item tested.

02.12.901 7 Vised By

Dr. Hesila Kiralant. M.E., Ph.D.
Professor & Head
Department of Civil Engineering,
E.G.S. Pillay Engineering College,



TEST REPORTS ON GRANULAR SUB-BASE (GSB Grading-V)

Project Name: Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km & Lawford straight cut L.S 0.0 to 3.90 Km.

Source of Material: Sri Murugan Metals, Padalur

Loacation: Stock yard @ Sithaimoor Railway Bridge.

Table 400-1 Grading for Granular Sub-Base Materials

Sieve size	Grain size	listribution (% Passing)	Average% Passing	Specification limits as per MoRT&H V,	
(mm)	Sample-01 Sample-02 Sample-03		(Achieved)	Table 400-1, Grading V	
75.0	100	100	100	100	100
53.0	92.5	93.9	96.2	94.2	80-100
26.5	70.5	68.8	66.3	68.5	55-90
9.50	38.5	40.1	41.8	40.1	35-65
4.75	31.5	33.2	31.0	31.9	25-50
2.36	18.5	17.2	18.8	18.2	10-20
0.850	7.9	8.5	8.1	8.2	2-10
0.425	3.7	4.0	3.1	3.6	0-5

Table, 400-2 Physical requirement for Granular Sub-Base Materials

S.No	Type of Test	Test method	Achieved values	As per Specification Limit		
1	Aggregate Impact Value (AIV)	IS:2386 Part-4	18.25 %	Maximum: 40 %		
2	Atterberg's Limits Limit Liquid Limit Plasticity Index	IS:2720 Part-5	19.20 % Non-Plasticity	Maximum: 25% Minimum: 6%		
3	Water Absorption	IS:2386 Part-3	0.45 %	Maximum: 2%		
4	Proctor Compaction (MDD/OMC)	IS:2720 Part-8	MDD: 2.422 g/cc OMC: 5.90%	3 3 3		
5	* CBR at 98% Compaction	IS:2720 Part-16	76.8 %	Minimum: 30%		

Note: As furnished by the customer, the results related to the item tested.

A-01 02.12.2019 Supervised By

Dr. Heal WARDART-M.E., Ph.D. Professor & Head

Public Works Department

Water Resources Organization

From

Er.S. Gnanasekaran, B.E., Executive Engineer, PWD/WRD, Project Implementation Unit-II,

Nagapattinam

To

Head of the Department,

Department of Civil Engineering., EGS Pillai Engineering Collage,

Nagapattinam

Lr.No: DB/DO/ADB/2019/ Dated: 20.04.2019

Sub:

ADB – CAVSCD Project – Infrastructure Improvements and Reconstruction works on Harichandranathi– from LS 121.260 km to 160.210 Km & Lawford Straight Cut from LS 0.00 Km to 3.900 Km. – Lab Testing – .Lab testing – Soil samples L.S 154.200 Km to 154.650 Km [Left Bank], & L.S 155.700 Km to 156.300 Km [Left Bank] & 156.300 Km to 156.750 Km [Left Bank]- Regarding.

Sir,

With reference to the above subject, We hereby would like to submit Soil Samples, collected from L.S 154.200 Km to 154.650 Km [Left Bank], & L.S 155.700 Km to 156.300 Km [Left Bank] & 156.300 Km to 156.750 Km [Left Bank].

Location of Samples:

S. No.	Sample Location (Km)
1	154.400
3	156.150
3	156.400
4	156.650

Kindly conduct the following necessary tests on the above said samples

Grain size Analysis - as per IS:2720 (Part-4)
Free Swell Index - as per IS:2720(Part-40)
LL/PL - as per IS:2720 (Part-5)
MDD/OMC - as per IS:2720 (Part-8)

The sample may please be tested as per the above and reported its suitability against IS:1498-1970 at the earliest.

Encl: As stated above

Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,
Nagapattinam.



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(Affiliated to Anna University Chennai)



Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3228/2019

Date: 02.05.2019

1. Name of the Client : The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

2. Client Reference No: Lr.No: DB/DO/ADB/2019/ Dated: 20.04.2019

3. Name of the Work : ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details : Soil [5 Nos.]

L.S 154.200 Km to 154.650 Km [Left Bank], & L.S 155.700 Km to

156.300 Km [Left Bank] & 156.300 Km to 156.750 Km [Left Bank]

5. Sample received : 22.04.2019

6. Sample test date : 24.04.2019

7. Test conducted by ... Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

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

OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

RECEIPT

. 690 W.R.O /NAGAI

Bill No Name Roll No YEAR

Supervised By

Date

: 02-May-2019

Course Mode of Payment

: : Cash

AMOUNT WILL NOT BE REFUNDED TESTING BILL Rupees: Ten Thousand five Hundred Fifty Only

10550

Amount

Fees Type

10550.00

Payee's Signature and Name

Head of the De

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78 — 55 — 75

Dr. R. SIVAKUMAR Professor & Hi Department of Civil E E.G.S. Pilkay Engineen Nagappattina

TEST REPORT ON BLANKET COURSE

Project Name: Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km & Lawford straight cut L.S 0.0 to 3.90 Km.

Location:Blanket Course (Stock yard @ Brinjumoolai)

[Gravel: 70% + Sand 30%]

Sample ID	Grain Size Analysis			Free Swell	Atterberg's Limit			Modified Proctor		CBR Value @ 97%
	Gravel (%)	Sand (%)	Silt & Clay (%)	Index (%)	LL (%)	PL (%)	PI (%)	MDD (g/cc)	OMC (%)	Compac
Sample-01	33.5	60.9	5.6	10.00	20.95	18.37	2.58	2.178	8.25	16.16
Sample-02	34.5	58.9	6.6	11.11	21.35	17.99	3.36	2.155	8.30	•
Sample-05	32.8	61.3	5.9	15.00	20.70	18.15	2.55	2.175	8.00	17.18

Note: As furnished by the customer, the results related to the item tested

Head of the Dept.

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

Public Works Department

Water Resources Organization

From

Er.S. Gnanasekaran, B.E.,

Executive Engineer, PWD/WRD,

Project Implementation Unit-II,

Nagapattinam

T_o

Head of the Department,

Department of Civil Engineering.,

EGS Pillai Engineering Collage,

Nagapattinam

Lr.No: DB/DO/ADB/2019/ Dated: 09.04.2019

Sub:

ADB – CAVSCD Project – Infrastructure Improvements and Reconstruction works on Harichandranathi– from LS 121.260 km to 160.210 Km & Lawford Straight Cut from LS 0.00 Km to 3.900 Km. – Lab Testing – .Lab testing – Soil samples - L.S 148.400 Km to 149.200 Km [Left Bank], & L.S 149.650 Km to 150.800 Km [Left Bank]- Regarding.

Sir,

With reference to the above subject, We hereby would like to submit Soil Samples, collected from L.S 148.400 Km to 149.200 Km [Left Bank], & L.S 149.650 Km to 150.800 Km [Left Bank]

Location of Samples:

S. No.	Sample Location (Km)					
1	148.700					
2	149.050					
3	149.950					
4	150.350					
5	150.600					

Kindly conduct the following necessary tests on the above said samples

Grain size Analysis

as per IS:2720 (Part-4)

Free Swell Index

as per IS:2720(Part-40)

LL/PL

as per IS:2720 (Part-5)

MDD/OMC

as per IS:2720 (Part-8)

The sample may please be tested as per the above and reported its suitability against IS:1498-1970 at

Encl: As stated above

the earliest.

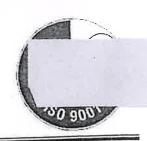
Executive Engineer, PWD/WRD.,,
Project Implementation Unit-II,

Nagapattinam.

E.G.S. PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611 002.

"" and Institution)



OLD NAGORE ROAD - NAGAPATTINAM TAMILNADU 611002 EGS PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Cash :18-Apr-2019 Course Mode of Payment Date RECEIPT : 642 : W.R.O /NAGAI

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10550 10550.00 Amount

TESTING BILL

Fees Type

AMOUNT WILL NOT BE REFUNDED

Date: 18.04.2019

119

** Nadu)

provements and Reconstruction 0 km to 160.210 Km & 900 Km.

& L.S 149.650 Km





ad of the Depar

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

stal - 251348 Fav - (04365) 251114



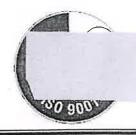
E.G.S. PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611 002.

(An ISO 9001:2015 Certified Institution)

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(Affiliated to Anna University Chennai)



Consultancy services

(Department of Civil Engineering)

Ref. No. EGSPEC/MTR/3219/2019

Date: 18.04.2019

1. Name of the Client : The Executive Engineer.,

Project Implementation Unit-II

Nagapattinam.

Client Reference No: Lr.No: DB/DO/ADB/2019/ Dated: 09.04.2019

3. Name of the Work : ADB - CAVSCD Project - Infrastructure Improvements and Reconstruction

works on Harichandranathi- from LS 121.260 km to 160.210 Km &

Lawford Straight Cut from LS 0.00 Km to 3.900 Km.

4. Sample details Soil [5 Nos.]

L.S 148.400 Km to 149.200 Km [Left Bank], & L.S 149.650 Km

to 150.800 Km [Left Bank]

5. Sample received : 10.04.2019

6. Sample test date : 12.04.2019

7. Test conducted by Mr. A. Arjunan. Assistant Professor.

Encl: Test Report

Head of the Department

Dr. R. SIVAKUMAR, M.E., Ph.D.

Professor & Head Department of Civil Engineering, E.G.S. Pillay Engineering College,

Nagappattinam.

TEST REPORT ON GRAVEL

Project Name:Infrastructure improvement and reconstruction works on Harichandranathi from L.S 121.260 Km to 160.200 Km & Lawford straight cut L.S 0.0 to 3.90 Km.

Location: Stock yard @ Brinjumoolai

ample ID	Grain Size Analysis			Free Swell	Atte	rberg's L	imit	Modified Proctor		CBR Value @ 97%
	Gravel (%)	Sand (%)	Silt & Clay (%)	Index (%)	LL (%)	PL (%)	PI (%)	MDD (g/cc)	OMC (%)	Compac tion
imple-01	37.8	48.5	13.7	11.11	22.15	16.20	5.95	2.195	7.55	18.05
mple-02	39.9	47.9	12.2	16.67	23.10	16.35	6.75	2.190	7.95	- 5
(nple-03	38.8	49.3	11.9	15.00	21.60	15.94	5.66	2.180	8.10	17.47

Note: As furnished by the customer, the results related to the item tested

Supervised By

Head of the Dept.

Dr. R. SIVAKUMAR, M.E., Ph.B.

Professor & Head Department of Civil Engineering, E.S. Pillay Engineering College, Nagappattinam.

CONSULTANCY WORK TEXTILE SHOP BILLING SYSTEM

(Ref.No: EGSPEC/CW/CSE/2019/01)

CUSTOMER DETAIL

RICH TRENDS MEN'S WEAR

27-B, Main Road, Porayar — 609307

Coordinator(s)

Dr.T.GANESAN

PROFESSOR

Mr.G.ARUL SELVAN

ASSISTANT PROFESSOR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM – 611 002, TAMIL NADU

http://www.egspec.org

Ph: 04365 - 251112

E.G.S PILLAY ENGINEERING COLLEGE (Autonomous), NAGAPATTINAM DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING Consultancy Work

"TEXTILE SHOP BILLING SYSTEM"

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

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)

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

10/07/2019

Ref. No: EGSPEC/CW/CSE/2019/01

To

Mr.G.Siva, Proprietor, Rich Trends Men's Wear, 27-B, Main Road, Porayar– 609307.

Dear sir

Sub: Consultancy Work - Reg

Greetings from E.G.S. Pillay Engineering College (Autonomous), Nagapattinam

We wish to inform that we are one of the best engineering institutions in Nagapattinam district. We have 25 years of experience in producing world class engineers. Many of our students are working abroad also. We are happy to inform you that we have developed many consultancy works for various purposes. We are also doing consultancy work for Textile Shop Billing System. This software will helps you to maintain day to day sales along with stock details. This also will generate bill for each sale. Herewith, we attach d the institution and department profiles for your kind reference.

Kindly let us know about your requirements if you need any consultancy service with us. Here by I have attached our institutional details, some of the consultancy work so far did and my profile.

Expecting a positive reply from your side

Thanking you,



Yours sincerely

(Dr.T.Ganesan)

Contact Details

Dr.T.Ganesan, Professor, Prof G.Arul Selvan, Assistant Professor,

Department of Computer Science and Engineering

E.G.S. Pillay Engineering College (Autonomous), Nagapattinam

Email Id: ganesan.t@egspec.org

Contact No: 9940742877

Email: hodcse@egspec.org

Personal: +91-9965128581

Web site: www.egspec.org

Office: +91-7373067032

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 7 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

B.E – Biomedical Engineering

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:

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

Mission:

- o To provide world class education to the students and to bring out their inherent talents.
- o To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes.
- o To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills.
- o To have regular interaction with the the industries in the areas of R&D and offer consultancy training and testing services.
- o To establish center of excellence in the emerging areas of research
- o 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 it's 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 the face of stiff competitions.

Vision:

o To produce globally competent computer professionals capable of adaptive to the ever-changing technological trends of Industry and Society.

Mission:

- o To build the core competence desirable for a computer professional such as design, development, testing and maintenance of software systems to work in real world projects excelling the expected standards of Industries.
- To train the students to acquire high demand skills of emerging technologies to make them preferable for employers.
- To provide state-of-the-art learning facilities for effective implementation of learner centric teaching-learning process to develop professional skills, self-learning and lifelong learning capabilities.

PROGRAMME EDUCATIONAL OBJECTIVES

The current PEO statements targeted for B.E-Computer Science & Engineering are given below.

PEO1: To develop strong knowledge and skills in the domain of Computer Science and Engineering for leading a successful career in industries or entrepreneurial endeavours.

PEO2: To prepare and assist the graduates to be successful in higher education and research activities in the theory and application of computing related engineering fields.

PEO3: To train the graduates to learn and adapt to the ever-changing world of technology.

PROGRAM SPECIFIC OUTCOMES

The graduates will have

PSO1: The ability to apply software engineering principles and practices to design and develop software systems that meet the automation needs of industrial and societal problems.

PSO2: The ability to apply the technical skills and knowledge gained in the fields such as Artificial Intelligence, Data Science, Cloud Computing, Social Network Analysis & Mobile Application development.

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.

	PO									PSO				
PEOs	1	2	3	4	5	6	7	8	9	10	11	12	12 1	2
1	V	~	1		1	~	1	1	1	1	1		1	1
2	✓	~		~	~					1	~		~	~
3						1	1	1	✓			~		

Courses Offered

B.E – Computer Science & Engineering.

M.E – Computer Science & Engineering.

Ph.D/M.S(By Research)

Association Name

CEA - Computer Engineers Association

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

All the laboratories are well equipped with high end systems to satisfy the present day technologies. 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
- ➤ Micosoft Office 2007
- ➤ Microsoft Visual Studio 6.0
- ➤ Microsoft Visaul 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

COORDINATOR DETAILS

S.No	Name of the Coordinator	Designation	Contact No.	EmailID
		Faculty I	Members	
01	Dr.T.Ganesan	Professor/CSE	9940742877	ganesan.t@egspec.org
02	Mr.G.Arul Selvan	Asst.Prof/CSE	8870641821	arulselvan@egspec.org

Siva :6385746377



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27-B, Main Road, PORAYAR.

17/07/2019

To

Dr.T.Ganesan,

Professor,

Department of Computer Science & Engineering,

E.G.S. Pillay Engineering College (Autonomous),

Nagapattinam.

Sir

Sub: Consultancy Work – with reference to your letter Dated: 10/07/2019 -Reg

Thank you for writing to us. This billing system management idea is very interesting and we hope that it will be very useful for us to maintain the accounts as well as stocks. We are willing to implement this software in our shop.

Kindly send your project proposal for further activities.

Thanking you

Yours

MENS WEAR

27-6, Main Road,

PORAYAR - 609 307.

Cell:63857 46377,



E. G.S.PILLAY ENGINEERING COLLEGE

(Autonomous)

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)

(Accredited by NAAC with 'A' Grade)

(Accredited by NBA)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

18/07/2019

Τo

Dr. E. Edward Anand

Director - R & D

Panithal no

Email: hodcse@egspec.org

E.G.S Pillay Engineering College

Nagapattinam - 611002

Respected Sir,

Sub – Requesting permission to do consultancy work – Reg.

I wish to inform you that Rich Trends Mens Wear, Porayar is accepted to develop a software for their textile shop. I request you to permit me to do this consultancy work.

Thanking you

Yours sincerely,

(Dr.T.Ganesan)

Personal: +91-9965128581

Web site: www.egspec.org

Office: +91-7373067032

1



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

CARATTINAM 611 003

NAGAPATTINAM - 611 002.

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(Approved by AICTE, New Delhi, Approved by Govt.of Tamil Nadu)

(Affiliated to Anna University Chennai)

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23/07/2019

Ref. No: EGSPEC/CW/CSE/2019/01

То

Mr.G.Siva,

Proprietor, Rich Trends Men's Wear, 27-B, Main Road, Porayar– 609307.

Sir

Sub: Consultancy Work - Reg

Greetings from E.G.S. Pillay Engineering College, Nagapattinam

With reference to your letter dated on 17/07/2019, we are glad to hear your positive response. Herewith we enclose our proposal for your kind reference. The approximate cost for developing the software will be around Rs. 85,000.

We request you to fix a date for discussing about the work.

Thanking You



Yours sincerely

(Dr.T.Ganesan)

Contact Details

Dr.T.Ganesan, Professor,

Prof G.Arul Selvan, Assistant Professor,

Department of Computer Science and Engineering

E.G.S. Pillay Engineering College (Autonomous), Nagapattinam

Email Id: ganesan.t@egspec.org

Contact No: 9940742877

Email: hodcse@egspec.org

Personal: +91-9965128581

Web site: www.egspec.org

Office: +91-7373067032

12

.Siva:6385746377



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27-B, Main Road, PORAYAR.

26/07/2019

To

Dr.T.Ganesan,

Professor

Department of Computer Science & Engineering

E.G.S. Pillay Engineering College (Autonomous)

Nagapattinam

Sir

Sub: Consultancy Work - Reg.

I accept your consultancy work of Textile Billing system. I will to come to your college on 29/07/2019 for discussing about the consultancy work. I hope this work is very important for us.

Thanking you

Yours

MENS WEAR

27-B, Main Road,

PORAYAR - 609 307.

Cell:63857 46377,

MINUTES OF MEETING

EGS Pillay Engineering College(Autonomous), Nagapattinam Department of Computer Science & Engineering

Minutes of Meeting

	Consultancy Work			
Title	Textile Shop Billing System			
Ref.No	EGSPEC/CW/CSE/2019/01			
Meeting No.	01			
Date	29/07/2019			
No. of Attendees	07			
Venue	Department of CSE -Faculty Room			

Members Present

S.No	Name of the Members	Designation/Dept	Signature
01	Dr.T.Ganesan	Professor/CSE	1.2
02	Mr.G.Arul Selvan	Assistant Professor/CSE	
03	G.Siva	Proprietor/Rich Trends Men's	0
		Wear, Porayar	
04	Mr. N.Mohamed	Student	NWE
	Ibrahimshaibu Marikyar		Mar
05	Ms. R.Sindhuja	Student	(Swidenger
06	Mr. G.Ashwin	Student	Gridinge Grahim
07	Ms. R. Nandhini	Student	- V-

Points Discussed

S.No	Points					
The fo	llowing points discussed in project meeting					
01	Dr.T.Ganesan delivered welcome address.					
02	Mr.G.Arul Selvan explained about the project details.					
03	Discussed with project details like objective, duration, project status monitoring					
4	Explained various levels in the sense of hardware and software profile and outcomes.					
04 05	Signed Consultancy Assignment Proposal and Agreement form					

Minuted by: Mr.G.Arul Selvan Copy to: Department file and Company

CSE CSE

HOD/CSE

Siva:6385746377



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27-B, Main Road, PORAYAR.

26/06/2020

То

Dr.T.Ganesan,

Professor,

Department of Computer Science & Engineering

E.G.S. Pillay Engineering College (Autonomous)

Nagapattinam

Sir

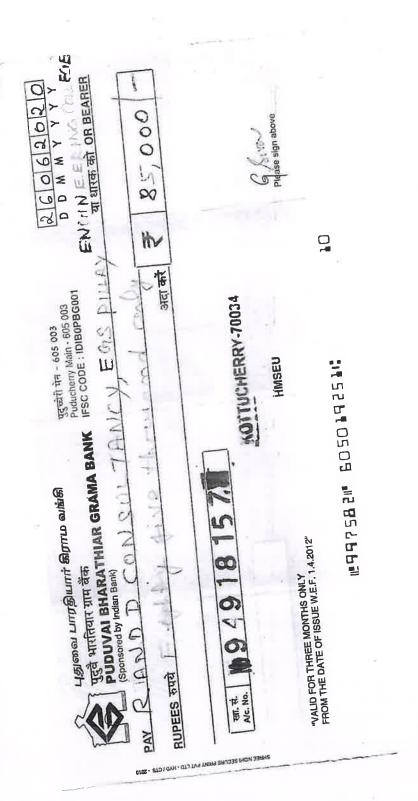
Sub: Consultancy Work – Reg

At the outset I thank the coordinators for the software developed. It is very useful for monitoring our shop's day to day activates. It satisfies all our needs. Herewith I enclosed a copy of the cheque for payment details made by me for your reference.

Thanking you

Yours

MENS WEAR
27-B, Main Road,
PORAYAR - 609 307.
Cell:63857 46377,





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

NAGAPATTINAM - 611 002.

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(Affiliated to Anna University Chennai)

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

11/07/2020

Ref. No: EGSPEC/CW/CSE/2019/01

lo

Mr.G.Siva, Proprietor, Rich Trends Men's Wear, 27-B. Main Road, Poravar 609307.

Sir

Sub: Consultancy Work-Payment - Reg.

Greetings from E.G.S. Pillay Engineering College (Autonomous), 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. Herewith we have attached the invoice detail for your reference.

Thanking You

Yours sincerely

(Dr.T.Ganesan)

Contact Details

Dr. L.Ganesan, Professor,
Prof G.Arul Selvan, Assistant Professor,
Department of Computer Science and Engineering
E.G.S. Pillay Engineering College (Autonomous), Nagapattinam
Email Id: ganesan.t@egspec.org
Contact No: 9940742877

26

Email: hodese@egspec.org

Personal: +91-9965128581 Web site: www.egspec.org

Office: +91-7373067032



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

11/07/2020

Ref. No: EGSPEC/CW/CSE/2019/01

INVOICE

S.No	Salaries & Wages	Amount (in Rs.)
()]	Coordinators and Technical Staff Salary	48,000
02	Preprocessing and Component Preparation	12,000
03	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	14,400
()=	Travel	3600
()5	Institutional overhead charge	7000
()6	Total Cost of Project	85,000

Yours sincerely

(Dr.) Ganesan)

Contact Details

Dr.T.Ganesan, Professor,
Prof G.Arul Selvan, Assistant Professor,
Department of Computer Science and Engineering
EGS Pillay Engineering College (Autonomous), Nagapattinam
Email Id: ganesan.t@egspec.org
Contact No: 9940742877

27

Email: hodese@egspec.org

Personal: +91-9965128581 Web site: www.egspec.org Office: +91-7373067032

va:6385746377

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27-B, Key Road, PORAYAR.

25/07/2020

To

Dr.T.Ganesan.

Professor,

Department of Computer Science & Engineering

E.G.S. Pillay Engineering College (Autonomous)

Nagapattinam

Sir

Sub: Consultancy Work – Reg

I am very happy to inform you that consultancy work "Textile Shop Billing System" system successfully running and it improves our record maintenance very well. I had a pleasant experience with you people.

Thanking you

MENS WEAR

27-B, Main Road,

PORAYAR - 609 307.

Cell:63857 46377,

Yours

Software Outcomes

- 1. Automate the entire billing process to remove the possibility of human errors.
- 2. Receive payments using cash, eWallets, cards, UPI, direct bank transfers, and cheques.
- 3. Impress customers with professional paper bills.
- 4. Create GST compliant invoices to bring clarity.
- 5. By using this billing software, it is easy to keep track of items all time.
- 6. Ability to automate purchase orders whenever a stock item reaches a lower limit.
- 7. Prepares sales strategy by analyzing the reports.
- 8. Keep records of all the sale and purchase orders and monitor them on a real-time basis.
- 9. Collect payments through invoices by sending digital payment links.
- 10. Send payment reminders over Whatsapp and emails.
- 11. Analyze expenses and carnings reports to make better use of resources.
- 12. Optimize costs by generating critical business reports.

E.G.S.PILLAY ENGINEERING COLLEGE NAGAPATTINAM.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Table 5.8.4 Details of Consultancy work

		Academic Yea	ar 2019-202	0	
S.No.	Name of the Company	Nature of Work	Duration	Consultancy Fee in Rs	Faculty Involved in the Work
1	SmartMind Technologies, 4/22,Triyambhava, SITRA Near. Coimbatore	Automatic Water Tank Pump Controller with SMS system	Six Month	1,65,000	Dr.M.Vijayakumar Dr.V.Mohan
2	Indiguard Systems (P) Ltd. 3/365,Kollangarai, Thanjavur.	Microcontroller based Touch Free Sanitizer Dispenser	One Month	85,000	Dr.M.Vijayakumar Mr.S.Sivamani
Amou	nt		Total	2,50,000	

R& D Coordinator

HOD/EEE

Dr. V. MOHAN M.E., Ph.U., PROFESSOR & HEAD Department of Electrical & Electronics Engs. E.S.S. Pillay Engineering College - Nagapattinam



Smart mind Technologies

4/22, Triyambhava, SITRA Near, Coimbatore-641014. Mobile: 8778108280

05.07.2019

From

R.Ganesan

Managing Director

Smart Mind Technologies

4/22, Triyambhava,

SITRA Near

Coimbatore

To

The HOD

Department of EEE

E.G.S. Pillay Engineering College.

Nagapattinam

Sub: Consultancy work - Regarding

Dear Professor,

I want to meet your experts in accordance with our talk. In order to establish my requirements for an automatic water tank pump controller with SMS system for commercial purposes as soon as feasible, kindly schedule a one-on-one consultation with your expert team.



Thanks and Regards

Email: smartinfo@gmail.com

www.smartmind.com

Date: 10/07/2019

Subject: One to One Discussion -Regarding

Dear Mr. R. Ganesan.

I'm Dr.V.Mohan working as Professor and Consultant at E.G.S.Pillay Engineering College Nagapattinam. With your inquired, Here, we specialize in Advanced Embedded System, PCB Design and Fabrication and we've helped your consumer product development up to end. Since you're a Managing Director at Smart Mind Technologies, Coimbatore, I believe we could collaborate to achieve good consumer product by using our Consultancy.

I'd like to invite you to our office at E.G.S.Pillay Consultancy Services, E.G.S.Pillay Engineering College, Nagapattinam for a meeting to discuss this further. Would either 15/07/2019 or 17/07/2019, 10-4 AM/PM work for you? Please let me know if you'd like to meet at a different time. Kind regards,

EGSPCS

Contact Number: +91 9942986674

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD Department of Electrical & Electronics Engg. E.G.S. Pillay Engineering College - Nagapattinam

QUOTATION

REF: EGSPCS/QUOT/EEE/2021/103

Date: 18/07/2019

To

Mr.R.Ganesan

M/S Smart Mind Technologies

4/22, Triyambhava,

SITRA Near,

Coimbatore.

Sub: Quotation for Automatic Water Tank Pump Controller with SMS System - Reg

Dear Madam,

Warm Greetings from E.G.S.Pillay Consultancy Services.

With reference to our discussion for Automatic Water Tank Pump Controller with SMS System and further deliberations from there on, we are pleased to submit the Quotation for the same. Please feel free to contact us so that we can initiate the proceedings. Looking forward to hear from you.

For E.G.S.Pillay Consultancy Services

Director/HOD

DE OF WASHINGTON THE PHILIP

Commercials for Automatic Water Tank Pump Controller with SMS System

Sl. No.	Particulars	Quantity	Rate	Amount in Rs
1,	Microcontroller based Mother	1	40,000	40,000
	Board - Design and			
	Development Charges			
2.	Cabinet Design and	1	15,000	15,000
	Development			
3.	Water Pump System with	25	4,400 each	1,10.000
	Sensors			4/
			Sub Total	1,65,000
			Total	1,65,000
			Payable	

Account Details:

Ac/No: 51090901039993

Name: R AND D CONSULTANCY SERVICES E.G.S. PILLAY ENGINEERING COLLEGE

Bank: CITY UNION BANK

Branch: NAGORE List of Deliverables:

- 1. Completed and tested hardware prototype as per customer specifications.
- 2. Fabrication drawings.
- 3. Complete Design Schematic.
- 4. PCB fabrication files and Gerber files.
- 5. Firmware source files and Hex files.

Product Ownership:

The IP rights of the designed product belong to the customer. The E.G.S.Pillay Consultancy Services shall not claim any ownership of the developed product.

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

Consultancy Project Agreement				
Project Title:	Automatic Water Tank Pump Controller with SMS System			
Name and Address of the Company:	Mr.R.Ganesan M/S Smart Mind Technologies 4/22, Triyambhava, SITRA Near, Coimbatore.			
Name of the Representative:	Mr.R.Ganesan			
Phone: 8778108280	E-mail: ganesansmart@gmail.com			

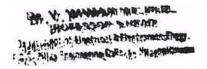
Principal Consultant*

S.No	Name of the Consultant	Designation	Department	
1*	Dr.V.Mohan	Professor	EEE	
1		Associate Professor	EEE	
2	Mr.M.Vijayakumar	Associate Frotester		

Project Cost: 1,65,000	Service Tax: Nil		
Total Project Cost: 1,65,000			
Duration of Proposed Work: Six Month			
Date of Commencement: 25/07/2019 Date of Completion: 24/01/2020			
Scope of Proposed Work: Automatic Water the utilization of advance sensing technolog	Tank Pump Controller with SMS System employs y to observe the water level.		

We agree to the above proposal and also to the	EGSPC terms & condition of EGSPEC Nagai.
Signature: Www.	Signature:
(Principal Consultant EGSPEC Nagai) Name: Quay Mohan ctrical & Electronics Enga Professor (EEE College Pagens time	Name: Mr.R.Ganesar COMBATORE M/S Smart Mind Technologies 4
Date: 22/07/2019	Date: 22/07/2019

Head of the Department	EGSPC Office Us	e Registered
Signature: Www.	Project Number: E0	GSPCS/QUOT/EEE/2019/101
Date: 22/07/2019	Date: 22/07/2019	Signature: W



E.G.S. PILLAY CONSULTANCY SERVICES EGS.MILAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM FORM FOR APPROVAL OF CONSULTANCY PROJECT

- Name of the Department/Office/Branch: ISBS
- Title of the Consultancy Project: Automatic Water Tank Pump Controller with SMS hi shell
- 3 Comultancy Project Category: 1/11/111
- 4 Duration of the Consultancy Project (Year/Month/Days): Six months
- (i) Date of Commencement 25/07/2019(ii) Expected Date of Completion 24/01/2020
- Detailed Project Report (DPR) atmehed; YES/NO
- Client's Name and Address : Mr.R.Canesan, M/S Smart Mind Technologies, 4/22, Triyambhaya, ATRA Near, Colmbutore,
- Type of Client (Tick): Private Sector/ Clovt. Sector/ Public Sector /Poreign Agency / Others (Please Speelty)
- 9 Payment to be received in : Full / Part (Rs.65,000/-Indian Currency /Foreign Currency
- Signed / Not Signed to Whether MoU/ Agreement Signed with Client (Attach, If any);
- 11. Consent Letter from the Client attached: YES / NO
- 12 Consent Letter from the Consultant(s) attached: YES / NO.

13. Details of Persons involved in the Consultance Project:

Name of Consultant(s) along with Designation & Department/Office/Branch	Brief role	Signature
Dr. V. Mohuu Professor / RER	PI	burhand
Mr.M. Vljnyakumar Associato Professor / BBE	CO - PI	The things and

Signature of the Principal And Addition (with date)

PROFESSOR & HEAD Bouartment of Electrical & Electronics Enga

Forwarded by Head of Department/ branch/office (6.5. : illay Engineering College - Wagaustinake

Director (EGSPCS) Office, EGSPEC

Consultancy Project No.:EGSPCS/APP/EEE/2019/101

Dated: 22/07/2019

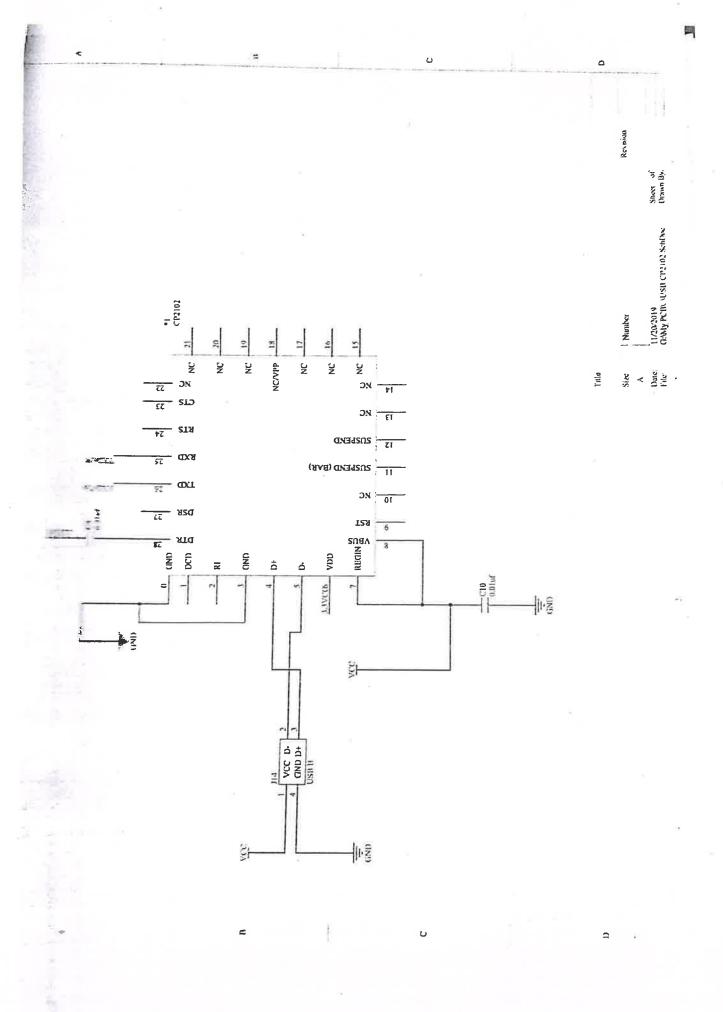
Recommendations of EGSPCS Committee: Approved / Not Approved / Suggestions for

Convener

Whelks.

DT, V. MOHAN M.E., Ph.D.,

artment of flactorest & Electronics Engg. ofing College, Naganattinam



(Performs for making request for issuance billing for Consultancy and Testing Projects)

Project Title/Description: Automatic Water Tank Pump Controller with SMS System

ATMEGA 328 Controller, SIM 900, GSM Modem, Power Circuit 5V and 12V water level Sensors and Cabinet Design

Name of the Client: Mr.R.Ganesan

Approval No: EGSPCS/APP/EEE/2019/101

Dated: 22/07/2019

Billing Amount in Rs. 1,65,000

Payment through Cash /Cheque/DD No. 1,00,000

Dated: 20/01/2020

Name of P.I.: M.Vijayakumar, Asso. Prof / EEE

Department: EEE

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD Oppartment of Electrical & Electronics Engg. 6.5 Pillay Engineering College - Nagapattinam

Ref: Copy of Job Approval Form



IndiGuard Systems Pvt.Ltd.

Wearing dreams into Reality

CIN : U32109TN2020PTC135361

GSTIN: 33AAFCI6412A1Z8

Mobile : 94880 12038

Wob : www.indiguard.ln
Email : indiguard@gmail.com

Training / Design / Consultancy

Nr : 3/365 WEST STREET, KOLLANGARAI, NADUR POST, THANJAVUR - 614904

18.05.2020

Dear Consultant,

Greetings for the day. I am introduced myself I am M.Ramya, Managing Director from Indiguard Systems Private limited Thanjavur. In our company required to design and develop the Micro Controller based touch free sanitizer dispenser product for this covid19 pandemic period. Already your institute representative met me and I had explained my requirements. If you arrange the direct meeting we can discuss to further process.

Thanks and Regards

For INDIGUARD SYSTEMS (P) LTD

Director

THANJAYUR 614904

Mobile: 94880 12038 Web: www.indiguard.in



Date: 22/05/2020

Subject: One to One Discussion -Regarding

Dear Mrs. M.Ramya.

I'm Mr. S.Sivamani working as Assistant Professor and Consultant at E.G.S.Pillay Engineering College Nagapattinam. With your inquired, Here, we specialize in Advanced Embedded System, PCB Design and Fabrication and we've helped your consumer product development up to end. Since you're a Managing Director at Indiguard Systems (P) Ltd, Thanjavur, I believe we could collaborate to achieve good consumer product by using our Consultancy.

I'd like to invite you to our office at E.G.S.Pillay Consultancy Services, E.G.S.Pilley Engineering College, Nagapattinam for a meeting to discuss this further. Would either 25/05/2020 or 27/05/2020, 10AM to 4PM work for you? Please let me know if you'd like to meet at a different time.

Kind regards,

Assistant Professor / Consultant

EGSPCS

Contact Number: +91 9994200058

Date: 25/05/2020

10

Mrs.M.Ranya,

M S Indignard Systems (P) 1 td.

3305 Kollangarai

Thanjayur.

Dear Mrs.M.Ramya,

Thank you for taking the time to meet with my colleagues from the Department of EEE, EGSPCS and me today regarding your Consumer product development goals. It's been a pleasure talking to you and learning about your Company. With reference to our discussion on Microcontroller based Touch Free Sanitizer Dispenser and further deliberations from there on, please find the quotation for the complete product design including the delivery of PCB and manufacturing files. Looking forward to your formal Purchase order.

Thanks & Regards

母e, V. 所のWAP M.E. Ph.D.,

QUOTATION

REF: EGSPCS/QUOT/EEE/2020/103

Date: 27/05/2020

Ta

Mis.M.Ramya,

M/8 Indiguard Systems (P) Ltd,

3/365, Kollangarai

Thanlavur.

Sub: Quotation for Microcontroller based Touch Free Sanitizer Dispenser - Reg

Doar Madam,

Warm Grootings from E.G.S.Pillay Consultancy Services.

With reference to our discussion for Design and Development of Microcontroller tursoil Touch Free Sanitizer Dispenser and further deliberations from there on, we are pleased to submit the Quotation for the same. Please feel free to contact us so that we can initiate the proceedings, Looking forward to hear from you.

For E.G.S.Pillay Consultancy Services

HOD/EEE

Dr. V. MOHAN M.E.,Ph.D., PROSESSOR & HEAD

Occariment of Eigetrical & Electronics Enga E.G. 2. Pillay Engineering College - Nagabattinam

Commercials for Microcontroller based Touch Free Sanitizer Dispenser

Sl. No.	Particulars	Quantity	Rate	Amount in Rs
1.	Microcontroller based Mother	1	15,000	15,000
2.	Board Design and Development Wall Mounted Microcontroller based Touch Free Sanitizer	20	3,500 each	70,000
	Dispenser		Sub Total	85,000
			Total Payable	85,000

Account Details:

Ac/No: 51090901039993

Name: R AND D CONSULTANCY SERVICES E.G.S. PILLAY ENGINEERING COLLEGE

Bank: CITY UNION BANK

Branch: NAGORE List of Deliverables:

- 1. Completed and tested hardware prototype as per customer specifications.
- 2. Fabrication drawings.
- 3. Complete Design Schematic.
- 4. PCB fabrication files and Gerber files.
- 5. Firmware source files and Hex files.

Product Ownership:

The IP rights of the designed product belong to the customer. The E.G.S.Pillay Consultancy Services shall not claim any ownership of the developed product.

VALID FOR THREE MONTHS ONLY 28052020 D M M Y Y Y Y	Cologn धारक को OR BEARER	€ 50,000/-	FOR INDIGUARD SYSTEMS PRIVATE LIMITED	Burul may AUTHORISED SIGNATORY	Please sign above
Branch: EASWARI NAGAR POT NO ZOLI YAKTARALAPURAM SOUTH COLONY, MEDICAL COLLEGE ROAD EASWARI I NAGAR, THUMANUH: 8183007 IFS CODE: IDI8000T095	R AND D Consultancy, E.G.S. Pillay Engineering Collegen Entre of OR BEARER	। nottsomma or कर्	FOR IN	CBS Code: 1326	"Payable At Par At All Our Branches"
इंडियन बैंक Indian Bank	PAY R AND D CONSUL	RUPEES रूपयो 🕂 🕂	電印:市。 CA 6929989449 A/c No.		99200002

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

Consul	tancy Project Agreement
Project Title:	Microcontroller based Touch Free Sanitizer Dispenser
Name and Address of the Company:	Mrs.M.Ramya, M/S Indiguard Systems (P) Ltd, 3/365, Kollangarai Thanjavur.
Name of the Representative:	Mrs.M.Ramya
Phone: 8489667053	E-mail: ramya.indi@gmail.com

Principal Consultant*

S.No	Name of the Consultant	Designation	Department
1#	Mr.M.Vijayakumar	Associate Professor	EEE
2	Mr.S.Siyamani	Assistant Professor	EEE

Project Cost: 85,000	Service Tax: Nil	
Total Project Cost: 85,000		
Duration of Proposed Work: one month		
Date of Commencement: 31/05/2020	Date of Completion: 30/06/2020	
Scope of Proposed Work: Microcontroller	based Touch Free Sanitizer Dispenser is ultimately id disinfection in public places and virus infection and eco-friendly by decreasing waste emissions.	

EGSPC terms & condition of EGSPEC Nagai.
Signature: Worm ortobe
(Authorized signatory of the thorise)
Name: Mrs.M.Ramya, M/S Indiguard Systems (1) Add 1905
Date: 28/05/2020

Head of the Department		EGSPC Office Use	e Registered
Signature: Www.slash	m	Project Number: EC	SPCS/QUOT/EEE/2020/102
Date: 28/05/2020	1	Date: 28/05/2020	Signature:

Dr. V. MOHAN M.E.,Ph.D., ""7502 3 HEAD . Estricat & Electronics Enge. Sheer og College - Nagymattinam

E.G.S. PILLAY CONSULTANCY SERVICES E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM FORM FOR APPROVAL OF CONSULTANCY PROJECT

- 1. Name of the Department/Office/Branch: EEE
- 2. Title of the Consultancy Project: Microcontroller based Touch Free Sanitizer Dispenser
- Consultancy Project Category: I/II/III
- Duration of the Consultancy Project (Year/Month/Days): One month
- 5. (i) Date of Commencement 31/05/2020(ii) Expected Date of Completion 30/06/2020
- 6. Detailed Project Report (DPR) attached: YES/NO
- 7. Client's Name and Address: Mrs.M.Ramya, M/S Indiguard Systems (P) Ltd, 3/365, Kollangarai, Thanjavur.
- 8. Type of Client (Tick): Private Sector/ Govt. Sector/ Public Sector /Foreign Agency / Others (Please Specify)
- 9. Payment to be received in :Full / Part ;Rs.50,000/-Indian Currency /Foreign Currency
- Signed / Not Signed 10. Whether MoU/ Agreement Signed with Client (Attach, if any):
- 11. Consent Letter from the Client attached: YES / NO
- 12. Consent Letter from the Consultant(s) attached: YES / NO_

13. Details of Persons involved in the Consultancy Project:

Name of Consultant(s) along with Designation & Department/Office/Branch	Brief role	Signature
Mr.M.Vijayakumar Associate Professor / EEE	PI	Hundmas mos me
Mr.S.Sivamani Assistant Professor / EEE	CO - PI	Down tose

Signature of the Principal

PROFESSOR & HEAD

Forwarded by Head of Department/ branch/office

Department of Electrical & Electronics Engy E.G.S. Pillay Engineering College - Nagapattinam

Director (EGSPCS) Office, EGSPEC

Consultancy Project No.:EGSPCS/APP/EEE/2020/102

Dated: 28/05/2020

Recommendations of EGSPCS Committee: Approved / Not Approved / Suggestions for

Convener

Member(s) (1-2 anoma) S. Lalle

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD epartiachi di Electricai & Electronics Engg. FAS Fillar Engineering College - Magazattinam

STATISTICAL COLLEGE ROAD STATISTICAL COLLEGE FROM O 6 0 7 1 2 0 2 0 O 6 0 7 Y Y Y D M M Y Y Y Y D M M Y Y Y Y D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D M M Y Y Y Y D D D M M Y Y Y Y D D M M Y Y Y Y D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D M M Y Y Y Y D D M M Y Y Y Y D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D D M M Y Y Y Y D D	PRESENCE SIGN STORES
Bank Beach: EASWARI WAGAR BOUTH COLONY, MEDICAL COLLEGE ROAD PLOT NO 2011 NATIONAL PRISON BOUTH COLONY, MEDICAL COLLEGE ROAD CONSULTENCY E. CL. S. PILLAY ENGLINEERING THINKY E. L. CL. S. PILLAY ENGLINEERING THINKY EIVE THOUSAND ONLY	CBS Code: 1326 Payable At Par At All Our Branches*
SISTAN STORE STORE THE RUPEES STORE STOR	# ET. #. CA 6929989449

(Performs for making request for issuance billing for Consultancy and Testing Projects)

Project Title/Description: Microcontroller based Touch Free Sanitizer Dispenser

12V DC solenoid value, Arduino Nano Development Board, Ultrasonic Sensor, Power Adapter, Cabinet

Name of the Client: Mrs.M.Ramya

Approval No: EGSPCS/APP/EEE/2020/102

Dated: 28/05/2020

Billing Amount in Rs. 85,000

Payment through Cash /Cheque/DD No

Dated: 06/07/2020

Signature

Name of P.I.: M.Vijayakumar, Asso. Prof / EEE

Department: EEE

Director Consultancy Services/HOD

Ref: Copy of Job Approval Form

Dr. V. MOHAN M.E., Ph.D., PROFESSOR & HEAD Department of Electrical & Electronics Enge. E.G.S. Pillay Engineering College - Nagapattinam

CONSULTANCY WORK ONLINE TRAVEL BOOKING SYSTEM

CUSTOMER DETAIL

AFESHEE TRAVEL

Vedharanyam, Nagapattinam - Dt

Coordinator(s)

Dr.P.Vijayalakshmi Ms.K.Nagalakshmi Mr.V.M.Suresh Mr.R.Anand Babu

DEPARTMENT OF INFORMATION TECHNOLOGY E.G.S PILLAY ENGINEERING COLLEGE NAGAPATTINAM – 611 002, TAMIL NADU

http://www.egspec.org

Ph: 04365 - 251112

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM DEPARTMENT OF INFORMATION TECHNOLOGY Consultancy Work

"ONLINE TRAVEL BOOKING SYSTEM"

CONTENTS

S. No	DETAILS
1.	Requisition Letter with Institution and Department Profile
2.	Requisition Letter from Customer
3.	Covering letter along with Proposal
4.	Acceptance Letter from Customer
5.	Minutes of Meeting – 1
6.	Response Letter and Invoice from Department
7.	Feedback Letter from Customer
8.	Utilization Certificate

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM **DEPARTMENT OF INFORMATION TECHNOLOGY**

18/07/2019

Ref. No: EGSPEC/CW/IT/2019/01

To

The Managing Director Afeshee Travel, Nagapattinam - 611001

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 Diesel Billing and Incentive calculator. This project focuses on management of medical lab data along with billing system. 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

Pajajah

Contact Details

Dr.P.Vijayalakshmi Ms.K.Nagalakshmi Mr.R.Anand Babu Department of IT EGS Pillay Engineering College, Nagapattinam

Email Id: noornilo@gmail.com

Contact No: 8643856461

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
- o To establish center of excellence in the emerging areas of research
- o 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 it's 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:

- o 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:SolveComplex 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

То

HoD / IT

Department of Information Technology

EGS Pillay Engineering College

Nagapattinam

Sir

Sub: Consultancy Work - Reg

Thank you for your interest. This project idea is very interesting and we can manage our medical data easily.

We accept your request. Kindly send your project proposal.

Thanking you

Kind regards

Afeshee Travel

1. PROJECT PROPOSAL

01	Title of the Project	;	ONLINE TRAVEL BOOKING SYSTEM
02	Type of the Project	1	Consultancy Work
03	Name & Designation of the Project Coordinators	:	Dr.P.Vijayalakshmi Ms.K.Nagalakshmi Mr.V.M.Suresh Mr.R.Anand Babu
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	:	Contact No. 9486116002 Email: nagalakshmi@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. Mustak Ahamed Proprietor cum CEO
08	Customer Contact Details		Ph: 8754935641
09	Duration of the Project	1	md.mustak2052@gmail.com Aug 2019 – May 2020
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

V.M.-Pol

Signature of Project Coordinator(s)

S. MANTKANDAN
Head of Department
Department of Information Technology,
E.G.S. Pillay Engineering College,
Nagapattinam - 611092
Signature of the

Head of the Department with Seal

Signature of the

Head of the Institution
with Seal

Dr. S. RAMABALAN, M.E., Ph.D.,
Principal
E.G.S. Piliay Engineering College
Nagapattinara - 611 902

DETAILS OF BUDGET

S.No	Description	Amount
		(in Rs.)
A	Salary for Project Coordinators (12 months*Rs.1000/pm)	36000
	Salary for Technical Assistant (12 months * Rs.1000/pm)	12000
	Total	48,000
В	Preprocessing and Component Preparation	35,000
x.	Total	35,000
С	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	25,000
	Total	25,000
D	Travel	5,000
E	Total of A+B+C+D	1,13,000
F	Institutional overhead charges	7,000
G	Total Cost of Project	1,20,000

ABSTRACT

The most important part of the online travel booking system project is its database. The database is full of Cars, Vans and its availability. Online travel booking system is a web based project where a user may search and apply for a travel service or package. The system allows the user to check various travel destinations and choose his destination accordingly. The software system checks for user choice and then queries the database for various available mediums to travel to that destination. The system then loads all that data and puts those choices in front of the user. The user can now choose various ways to reach his destination. When the user chooses Car or Van, the system also allows the user to book tickets to the destination for the desire day and timings. Thus this software system automates the working of a travel agency and allows users to check and book his holidays online through this website. One more important functionality available in this project is the receipt of holiday booking is sent to the users mobile phone on successful booking of his holiday.

Annexure - 3

Work Plan

Phase	Cycle	Primary Objective	Scheduled start or milestone	Duration Estimate (calendar days)
Inception / Requirements Analysis	C1	 ✓ Analyzing Requirements ✓ Collecting Project Requirements 	May – June 2019	38 days
Elaboration	C2	✓ Identifying Technical Assistant ✓ Installation and Setup	July – August 2019	32 days
Designing	СЗ	 ✓ Designing Prototype Model ✓ Project Review Status Preparation Submission ✓ Project Modules Preparation 	September – October 2019	35 days
Implementation	C4	 ✓ Start to develop Coding each Modules ✓ Preparing Workspace model and verify with abstract. ✓ Identify the Risk and Measure the values of on it. 	November – December 2019	45 days
Construction	C5	 ✓ Complete the Project and meet with Abstract ✓ Objectives and Outcome mapped with the Module ✓ Project Final Phase meeting 	January – February 2020	45 days
Transitions /End	C 6	 ✓ Preparing Documentation Part ✓ Final Project Presentation 	March – May 2020	40 day

Annexure - 4

Expected Outcomes

- 1. Provides the easiest reporting system for medical diagnostic laboratories.
- 2. A single module fits all system with synoptic reporting.
- 3. The reports can be fully customized as per the need of the laboratory.
- 4. The report is generated automatically from the patient information.
- 5. Have templates customized for each doctor.
- 6. The report is generated automatically and saves time from manual changes.
- 7. Historical chart shows the trend for a particular test over a period of time. This can be applied for any test.
- 8. Option to provide digital signatures on lab results.
- 9. Single click invoice generation
- 10. Compute Referral incentive with a single click. Referral is computed automatically from bill.
- 11. Detailed report on Test wise Turn Around Time.
- 12. View all outsourced tests with current status.
- 13. Data can be monitored at Patient wise, Test wise and Lab wise.
- 14. Shows the top 10 referrals who have provided the most income. Helps in identifying the pattern of referrals.
- 15. Shows which tests are booked frequently. Helps in planning for additional machines and additional personnel.
- 16. Shows trend of new patients over time. Helps in planning marketing activities.

MINUTES OF MEETING

EGS Pillay Engineering College, Nagapattinam Department of IT

Minutes of Meeting

	Consultancy Work
Title	Online Travel Booking System
Meeting No.	01
Date	20/08/2019
No. of Attendees	05
Venue	Department of IT -Faculty Room

Members Present

S.No	Name of the Members	Designation/Dept
01	Mustak Ahamed	Director/Afeshee Travel
02	Dr.P.Vijayalakshmi	Prof/IT
03	Ms.K.Nagalaksmhi	As.P/IT
04	Mr.V.M.Suresh	AP/IT
05	Mr.R.Anand Babu	AP/IT

Points Discussed

S.No	Points
The f	ollowing points discussed in project meeting
01	Dr.P.Vijayalakshmi delivered welcome address
02	Mr.R.Anand Babu discussed project details.
03	Discussed with project details like objective, duration, project status monitoring
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

Head of Department Department of Information Technology, E.G.S. Pillay Engineering College, Nagapattinam - 611092

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

Afeshee Travel Vedharanyam Nagapattinam - Dt

Memorandum of Understating (Consultancy Work Order)

This Memorandum of Understanding is entered on this 20th August,2019 between Afeshee Travel hereinafter called the party of the first part represented by branch manager

AND

Department of Information Technology, E.G.S Pillay Engineering College, Old Nagore Road, Nagapattinam District – 611 002, hereinafter called the party of the second part represented by E.G.S Pillay Engineering College hereinafter called the party of the second part.

We are happy to sign Memorandum of Understanding for the purposes of doing Consultancy work for the title "ONLINE TRAVEL BOOKING SYSTEM" the period from August'2019 to July'2020. And we accept and satisfies the requirements and it is very good platform for us.

This MOU effect from on 20/08/2019.

On behalf of

Director

On behalf of

Head of the Department

MINUTES OF MEETING

EGS Pillay Engineering College, Nagapattinam Department of IT

Minutes of Meeting

Consul	ancy Work - Progress Analysis
Title	Online Travel Booking System
Meeting No.	04
Date	03/01/2020
No. of Attendees	05
Venue	Department of IT -Faculty Room

Members Present

S.No	Name of the Members	Designation/Dept
01	Rafeeq	Director/Afeshee Travel
02	Dr.P.Vijayalakshmi	Prof/IT
03	Ms.K.Nagalaksmhi	As.P/IT
04	Mr.V.M.Suresh	AP/IT
05	Mr.R.Anand Babu	AP/IT

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

Department of Information Technology, E.G.S. Pillay Engineering College, Nagapattinam - 611092

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM DEPARTMENT OF INFORMATION TECHNOLOGY

04/08/2019

Ref. No: EGSPEC/CW/IT/2019/01

INVOICE

S.No	Description	Amount (in Rs.)
A	Salary for Project Coordinators (12 months*Rs.1000/pm)	36000
	Salary for Technical Assistant (12 months * Rs.1000/pm)	12000
	Total	48,000
В	Preprocessing and Component Preparation	35,000
	Total	35,000
С	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	25,000
	Total	25,000
D	Travel	5,000
E	Total of A+B+C+D	1,13,000
F	Institutional overhead charges	7,000
G	Total Cost of Project	1,20,000

Yours Sincerely

EGS Pillay Engineering College, Nagapattinam Department of Information Technology

Utilization Certificate

Name of the Project	Online Travel Booking System
Name of the	Dr.P.Vijayalakshmi
Coordinator(s)	Ms.K.Nagalakshmi
	Mr.R.Anand Babu
	Mr.V.M.Suresh
Name of the Agency	AFESHEE TRAVEL
	Vedharanyam, Nagapattinam - Dt
Type of Project	Consultancy work
Duration	August 2019 – May 2020
Project Cost	1,20,000

S.No	Description	Amount	
		(in Rs.)	
A	Salary for Project Coordinators (12 months*Rs.1000/pm)	36000	
	Salary for Technical Assistant (12 months * Rs.1000/pm)	12000	
	Total	48,000	
В	Preprocessing and Component Preparation	35,000	
	Total	35,000	
С	Data collection, Requirement Analysis, Designing, Prototype model, Testing and Maintenance	25,000	
	Total	25,000	
D	Travel	5,000	
E	Total of A+B+C+D	1,13,000	
F	Institutional overhead charges	7,000	
G	Total Cost of Project	1,20,000	

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.

V.M.-Pol

Name and Signature of the Coordinator





Name and Signature of Head of Institution With seal

Dr. S. RAMABALAN, ME., Ph. D., Principal

E.G.S. Pillay Engineering College Nagapattinam 611 002

SUN FIBER BOATS & SEA FOODS

No.11, Kalpandaga Salai Street, Nagore – 611002

Shri.B.Mohan B.A., Proprietor

GSTIN: 33BJOPM7318D1Z7 Ph.8610447629

To

27-08-2019

The Principal EGS Pillay Engineering College Nagapattinam

Sir,

Sub: FRP boat order - reg.

With reference to our discussion with you and Dr.V.Sivaraman, we are interested to give order to deliver the boat with the following specifications

1. Length 42 feet 2. Breadth 11 feet 3. Height 4 feet

The boat should have two engines with maximum capacity of 50 HP each. The cabin size must accommodate minimum 3 to 4 person with steering wheel and other necessary acessories. We can pay Rs.8,42,000 (Eight lakhs forty two thousand only) for the entire project, if you are interested kindly send your acceptance immediately.

Thanking You





NAGAPATTINAM - 611 002.





Dr.S.RAMABALAN M.E.Ph.D., **PRINCIPAL**

Ref: EGSPEC/SEPTEMBER/2019

12/09/2019

To

Shri.B.Mohan

Proprietor

Sun fibre boats and sea foods

Nagore

Tamilnadu-611002.

Sir

Sub: Consultancy work-reg

Greeting from E.G.S.Pillay Engineering College, Nagapattinam.

We are happy to inform you that we are doing consultancy work in the field of Mechanical Engineering. Hence we request you to kindly give a positive response from your side.

Thanking you,

Yours trul

Dr.S.Ramabalar

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

PRINCIPAL

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

Grams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

Web site: www.egspec.org



NAGAPATTINAM - 611 002.





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

Ref: EGSPEC/SEPTEMBER/2019

24/09/2019

To

Shri.B.Mohan

Proprietor

Sun fibre boats and sea foods

Nagore

Tamilnadu-611002.

Sir

Sub: Consultancy work-reg

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Thank you

Yours truly

Dr.S.Ramabalan

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

E.G.S. FILLAY ENGINEERING COLLECT NAGAPATTINAM - 61.007

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NAGAPATTINAM - 611 002.





05/10/2019

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

Ref: EGSPEC/MECH/OCTOBER/2019

To

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Thank you

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E.G.S. PILLAY ENGINEERING COLLEGE NAGAPATTINAM - 644 602.

Grams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

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NAGAPATTINAM - 611 002.





Dr.S.RAMABALAN M.E.Ph.D., **PRINCIPAL**

Ref: EGSPEC/SEPTEMBER/2019

26/09/2019

SNO	Content	Minutes of Meeting	_0,0,1
1		Particulars	
2	Purpose of Meeting Meeting No.	Consultancy work	
3	Date	01	
4	No. of Attendees	26/09/2019	
	140. of Attendees	2	

Board Members

S.No	Name	AJJ	
1		Address	Signature
L	Shri.B.Mohan	Sun fibre boats and sea foods	oightatate .
2	Dr.V.Sivaraman		1 Stoh
		Professor, Mech, EGSPEC	2,14
viemor	andum of Undamenadia		1 1 Var

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On behalf of Proprietor

On behalf of EGSPEC

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

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

Grams: 'EGSP' Personal: 251114. Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

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SUN FIBER BOATS & SEAFOODS

No.11, Kalpandaga Salai Street, Nagore - 611002

Shri.B.Mohan B.A., Proprietor

GSTIN:33BJOPM7318D1Z7 Ph.8610447629

REF: EGSPEC/DECEMBER/2019

05/12/2019

To

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Principal

E.G.S.Pillay Engineering College

Nagapattinam

Tamilnadu-611002

Sir

Sub: Consultancy work-reg

Consultancy second minutes of meeting conducted with below mentioned field experts as on date

10.6.2019.

Minutes of Meeting

S.No	Content	Particulars
1	Purpose of Meeting	Consultancy work
2	Meeting No.	02
3	Date	05.12.2019
4	No. of Attendees	3

Board Members

S.No	Name	Address	Signature
1	Shri.B.Mohan	Sun fibre boats and sea foods	Uch-
2	Dr.S.Ramabalan	Principal & Professor, Mech, EGSPEC	Boy
2	Dr.V.Sivaraman	Professor, Mech, EGSPEC	Sill

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No.11, Kalpandaga Salai Street, Nagore - 611002

Shri.B.Mohan B.A., Proprietor

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28.03.2020

Certificate of Appreciation

On behalf of the company I sincerely thank the R&D department of E.G.S.Pillsy Engineering College for their excellent consultancy work in manufacturing fibre boat as per our specific requirements l also thank the Principal Dr.S.Ramabalan and Dr.V.Sivaraman for their timely support and help in finishing the project on time. Our customer was very happy with the boat design and finishing. In future we reques you to help to complete similar projects for our company.

For SUN FIBRE BOAT AND SEA FOODS

Authorized Signatory



SUN FIBER BOATS & SEA FOODS

No.11, Kalpandaga Salai Street, Nagore - 611002

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NAGAPATTINAM - 611 002.





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

Grams: 'EGSP' Personal: 251114, Office: 251112, Chairman: 224522, Hostel: 251348, Fax: (04365) 251114

Web site: www.egspec.org



NAGAPATTINAM - 611 002.

Accredited by NBA (CSE, EEE, Mech, Civil, ECE & IT) Accredited by NAAC with 'A' Grade An ISO 9001:2008 Certified Institution Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai



Dr.S.RAMABALAN M.E.Ph.D., **PRINCIPAL**

Ref: EGSPEC/SEPTEMBER/2019

24/09/2019

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NAGAPATTINAM - 611 002.





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

Ref: EGSPEC/SEPTEMBER/2019

26/09/2019

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1	Purpose of Meeting	Particulars	
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1	Shri.B.Mohan	Sun fibre boats and sea foods	0 ignature
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SUN FIBER BOATS & SEAFOODS

No.11, Kalpandaga Salai Street, Nagore – 611002

Shri.B.Mohan B.A., Proprietor

GSTIN:33BJOPM7318D1Z7 Ph.8610447629

REF: EGSPEC/DECEMBER/2019

05/12/2019

To

Dr.S.Ramabalan

Principal

E.G.S.Pillay Engineering College

Nagapattinam

Tamilnadu-611002

Sir

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Consultancy second minutes of meeting conducted with below mentioned field experts as on date 10.6.2019.

Minutes of Meeting

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4	No. of Attendees	3	

Board Members

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1	Shri.B.Mohan	Sun fibre boats and sea foods	Woh -
2	Dr.S.Ramabalan	Principal & Professor, Mech, EGSPEC	Boy
2	Dr.V.Sivaraman	Professor, Mech, EGSPEC	8:061

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No.11, Kalpandaga Salai Street, Nagore - 611002

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28.03.2020

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For SUN FIBRE BOAT AND SEA FOODS

Authorized Signatory

CONSULTANCY PROJECT

ON

CABLE TV OPERATOR BILLING MANAGEMENT SYSTEM

WORK DONE BY

Mrs.A.HEMA

ASSISTANT PROFESSOR

Mr.S.SELVAGANAPATHY

ASSISTANT 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

SRI SAI CABLE TV CABLE VISION
No 4, VKV Comblex,
Sirangudipuliyur, Bypass Rd, Nagore, Sikkal,
Tamil Nadu 611104



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.orgwebsite: www.egspec.orgPh: 04365-251112

DEPARTMENT OF MCA

CABLE TV OPERATOR BILLING MANAGEMENT SYSTEM CONTENTS

S. No	DETAILS	PAGE No.			
	Main Report				
01	Requisition Letter to Cable operator				
02	Institution Profile				
03	Department of MCA				
04	Acceptance letter from Exam Cell				
05	Project Proposal				
06	Budget				
07	Project Coordinator Details –Appendix -1				
08	Project Review Meeting				
09	Certificate from Company and Payment				
	Derails				



E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS) NAGAPATTINAM - 611002

Accredited by NAAC with 'A' Grade (An ISO 9001:2008 Certified Institution)





Ref. No: EGSPEC/CW/MCA/CAMS/2019/01

03/07/2019

To

Mr. Gopalakrishan Sri Sai cable TV Cable No 4, VKV Comblex, Sirangudipuliyur, Bypass Rd, Nagore, Sikkal, Tamil Nadu 611104

Sir

Sub: Consultancy Work - Reg

Greetings from EGS Pillay Engineering College, Nagapattinam

We are performing some consultancy work in our department to intervene the manual generated works. We come to know that your follows so many manual works during the cable operator system and you have large strength of students, if you want the thighs 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

Mrs. A.HEMA]

Contact Details

Mr. A.Hema,
Assistant Professor,
Department of MCA,
E.G.S. Pillay Engineering College,
Nagapattinam,
Contact NO 7598690251.



ef. No: SAISRI/CW/MCA/CO/2019/01

04/08/2019

To:

Mrs. A.Hema

Assistant Professor

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 (Cable Operate Management System " software for our Department of foreshorten the manual work. Since there are more number of customer in village I, hope your project will satisfy our requirements as We are contrived to accept your request, we are awaiting for more details about your project as early possible

Thank you

Sincerely,



9698008348



Saisai@gmail.com



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.

PEO1: To employ solid foundation in mathematical and computing fundamentals and techniques to develop software solutions.

PEO2: 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.

PEO3: To show continuous improvement in their professional career through life-long learning, understand the human values and ethics.

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

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.

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 ServerWorkstations
- > 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
- ➤ Micosoft Office 2007
- ➤ Microsoft Visual Studio 6.0
- Microsoft Visaul 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 IDK, I2EE and I2ME
- ➤ 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

Annexure V

E-Mail: karusnehem@gmail.com

Mobile:7598690251

Mrs.A.Hema

Objective

Driven by strong passion towards teaching, seeking challenging opportunity as teaching professional in a reputed educational institution.

Academic Profile

- ✓ Master of Philosophy (M.Phil), Alagappa University, karaikudi.
- ✓ Master of Computer Applications (MCA), Madurai Kamaraj Universit,palkalai Nagar,Madurai.

Passed out with first class during 2001 securing 66% of marks.

- ✓ Bachelor of Chemistry(B.Sc), Sri Meenakshi college for Women, Madurai, Affiliated to Madurai Kamaraj University.
 Passed out with first class during May 1995 securing 86% of marks.
- ✓ <u>HSC</u>, E.V.R.Girls Higher Secondary School

Passed out during March 1992 securing 66% of marks.

- SSLC St. Antony's Girls High School, Koodal Nagar, Madurai...
- Passed out during April 1990 securing 80% of marks.

Subjects Handled

- ✓ Middleware Technologies
- ✓ Object Oriented Programming
- ✓ Software Engineering
- ✓ Software Project Management
- ✓ Computer Graphics and Multimedia Systems
- ✓ Operating Systems
- ✓ Computer Networks
- ✓ Software Testing
- ✓ Service Oriented Architecture

Research Interest

- ✓ Image Processing and Biometrics
- ✓ Cloud Computing
- ✓ Computer Networking

Paper Publications

Journal

✓ "State-of-the-Art Invisible Watermarking Technology within Media Files" published in "CIIT International journal of Artificial Intelligent Systems and Machine Learning" – August 2011 ISSN 0974-9667.

IEEE Xplore

√ "SAAS flavoured cloud computing implementation in Indian universities an Imagineering thought" published in "IEEE Xplore Digital Library" – June 2012 ISSN 978-1-4673-0213-5

Conference

- ✓ "National conference on advanced computing and communication techologies " organized by E.G.S Pillay Engineering College, Nagapattinam 2009.
- ✓ "International conference on advances in engineering, and technology" organized by E.G.S Pillay Engineering College, Nagapattinam March 2011.
- ✓ "International conference on advaned in engineering ,science and management" organized by E.G.S Pillay Engineering College, Nagapattinam March 2012.
- ✓ PHP Programming workshop using "DRUPAL TOOL"-Preconference organized by E.G.S Pillay Engineering College, Nagapattinam March 2013 .
- ✓ "Efficieent Human Skin Detectionusing a fusion approach" published in "IEEE International Conference on Research and Development Prospects on Engineering and Technology ICRDPET-2013" organized by E.G.S Pillay Engineering College, Nagapattinam March 2013.
- "Analysis study of content image retrieval versus context image retrieval" published in "CSI and ISTE sponsored national conference NCASEM -2013" organized by E.G.S Pillay Engineering College, Nagapattinam 28th September 2013.
- ✓ "Retinal Layer Analysis From 3-D oct"- Published in "International conference on Advances in enginnering and technology" organized by E.G.S Pillay Engineering College", Nagapattinam March 2014.
- √ "Farwell Brain Fingerprinting a new paradigm in criminal investigations" Published in
 "IJARET 2014"- organized by E.G.S.PillayEngineering College,Nagapattinam May 2014.
- √ "Image Tamper Detection Based On Demosaicing Arifacts" ICRDICT organized by E.G.S.PillayEngineering College, Nagapattinam May 2015.
- ✓ A Survey Paper on Virtual Machines Overloaded in Bigdata Computing Using Cyber AlgorithmOIEEE ICIOT organized by E.G.S.PillayEngineering College,Nagapattinam 2017.
- ✓ A Survey Paper on Cloud Computing Security and Outsourcing Data Mining in Cloud Plat

Form-IEEE ICIOT organized by E.G.S.PillayEngineering College, Nagapattinam 2017.

- ✓ Review on Multidimensional indexing Using R*-Tree Algorithm for efficient content Based image retrieval.-ICETMSH organized by E.G.S.PillayEngineering College,Nagapattinam 2016.
- ✓ Vital Role Using Digital Watermarking with Data Security-ICEMSH organized by E.G.S.PillayEngineering College, Nagapattinam 2016.
- ✓ Mechanized Palm Detection and Prediction(PalMISTRY) on Image Processing Techniques-ICETMSH organized by E.G.S.PillayEngineering College,Nagapattinam 2016.
- ✓ SOA with Cloud Computing in Business Application-NCRTCSA,EGSPEC,Department of CSE-2016.

Seminar

- ✓ "Research directions in cloud computing" organized by A.V.C College of Engineering,
 Mayiladuthurai, –2011.
- ✓ "A Novel Security model for storing sensitive data on the cloud" published in "National level seminar on IT Applications for Business and Service organization" organized by R.V.S College of Computer Applications, Karaikal March 2012.
- ✓ Recent Trends in "BIG DATA ANALYTICS" Organized by SIRISSAC NEWTON ARTS AND SCIENCE COLLEGE.Nagapattinam-2016.

Courses Attended

Faculty Development Program

- ✓ "Free Open Source Software-FOSS" FDP organized by by E.G.S Pillay Engineering College, Nagapattinam on 09-04-2012.
- ✓ "Research Directions in Cloud Computing" State level FDP organized by A.V.C College of Engineering, Mayiladuthurai on 24-09-2011.
- ✓ "Cloud Computing and its Applications" State level FDP organized by E.G.S Pillay Engineering College, Nagapattinam on 09-04-2012.
- ✓ "XML and Web Services" one week Anna University, Center for Faculty development sponsored FDP organized by A.V.C College of Engineering, Mayiladuthurai from 03-12-2012 to 09-12-2012.
- ✓ "Data Warehousing and Data Mining" one week Anna University, Center for Faculty development sponsored FDP organized by E.G.S Pillay Engineering College, Nagapattinam from 02-12-2013 to 08-12-2013.
- ✓ "Recent trends in software engineering" organized by Periyar maniammai university on 2013.

- √ "CS2402 Mobile And Pervasive Computing" Organized by computer Engineers Association, Department of CSE, E.G.S. Pillay Engineering College, Nagapattinam From 11.05.2015 to 17.05.2015.
- ✓ "Data Analytics"-CSI Sponsored Faculty Development Programme Organized by EGSPEC-Department of IT.
- ✓ IBM Bluemix-Conducted by ICT Academy of TamilNadu,2016.

Staff Development Program

✓ "Advances in Research and Development of Autonomous Robots" two weeks AICTE sponsored SDP organized by E.G.S Pillay Engineering College, Nagapattinam from 07-05-2012 to 18-05-2012.

Short Term Training Programme:

- ✓ Data Science Hands on Session with Open Source Tools Organized by A.V.C.College of Engineering-2016.
- based Content Development Web Using Moodle through **ICT-Organized** EGSPEC, Department of CSE, 2016.

Workshop

- ✓ "PHP Programming workshop using "DRUPAL TOOL"-Preconference" workshop organized by E.G.S Pillay Engineering College , Nagapattinam, on 2013.
- ✓ "Internal colloquium on Biovision" workshop organized by UGC-Academic Staff college, Bharathidasan University, Trichy and A.D.M. College for Women (Autonomous), Nagapattinam, on 16-03-2006 and 18-03-2006.
- ✓ "Java,Don Net, and Embedded" workshop organized by IWIZ BLUECHIP -2010.
- √ "C#,.Net" workshop organized by A.V.C.College of Engineering on 27-08-2013 and 28-08-2013.
- ✓ "Effective Research in Computer Technology" one day National workshop organized by Bharathiryar college of Engineering and Technology, Karaikal on 16-02-2013.
- ✓ "PHP Programming using Drupal Tool" Pre conference workshop organized by E.G.S Pillay Engineering college, Nagapattinam on 28-03-2013.
- ✓ "Computer Programming" workshop organized by A.V.C.College of Engineering on 27-08-2013 and 28-08-2013.
- ✓ "National workshop on effective research in computer" organized by Bharathiryar college of Engineering and Technology, Karaikal on 2013.
- ✓ PHP and MySQL -workshop organized by Bharathiryar college of Engineering and Technology, Karaikal on 2014.
- .Net framework and web application development -workshop organized by Ocean software

solution on 2014

✓ IPR Issues in Cloud Resource Provisioning"-Two days workshop Organized by Department of Computer Science, Pondicherry University Karaikal Campus, 3rd & 4th September, 2015.

✓ SAP- Systems Applications and Products in Data Processing-Workshop Organized by Purple Pro

Info Tech, Coimbatore. 7.09.2015 & 8.09.2015

✓ Exploring the Power of 'C' -Workshop Organized by A.V.C.College of Engineering, 18.09.2015

- ✓ Big Data Tools: Hive and Pig-Workshop Organized by A.V.C.College of Engineering College.
- ✓ Text Analytics-Two day National Workshop organized by Pondicherry University karaikal

✓ Research Methodology and funding opportunities-One day Workshop organized by EGSPEC,

Awards won

- ✓ won cash award for more than 5 times for producing 100% subject result
- ✓ won cash award for more than 6 times for producing more than 90% subject result

Membership in Professional Bodies

✓ Life Member in the "Indian Society for Technical Education" (ISTE), M.No:LM73853

Personal Details

Name

: Hema. A

Gender

: Female

Date of Birth

: December 10th 1976

Nationality

: Indian

Community

: BC

Father's Name

: T.G.Ananga Veera Raman

Mother's Name

: R.Govindammal

Marital Status

: Married

Permanent Address: Yadavapuram,

Thethakudi South sethi, Vedaraniam-641 809

Hobbies

: Reading Books, surfing on the internet .

References

Prof.Mrs.J. Vanitha, Associate Professor, Department of Computer Science E.G.S.Pillay Arts and Science College, Nagapattinam – 611 001

Mobile:

9443728519

Mail:

vani77_muthu@yahoo.co.in

Declaration

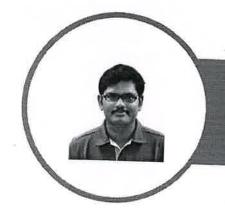
I hereby declare that above furnished information are true to the best of my knowledge and belief.

Date:

Place: Nagapattinam

(Mrs.A..Hema)

Yours truly,



S. SELVAGANAPATHY MCA, (PH.D)

ASSISTANT PROFESSOR EMAIL: sganapathy84@gmail.com MOBILE: + 91 9487691901, 9710196914.

OBJECTIVE

Driven by strong passion towards teaching, seeking challenging opportunity as teaching professional for giving the practical knowledge which makes the student's career progressive in a reputed educational institution.

SKILLS

- VMWare certified Trainer
- Soft Skill Trainer
- C Programming Trainer
- > R Programming
- PHP, Dot NET
- Leadership
- Social Entrepreneur

TEACHING EXPERIENCE (5 YEARS 8 MONTHS)

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM. From 16-07-2012 To Till Date.

Working as a teaching faculty in Computer Applications Department.

INDUSTRIAL EXPERIENCE (3 YEARS 5 MONTHS)

SEA CONSORTIUM SHIPPING INDIA PVT LTD, CHENNAI.

From 01-04-2011 to 10-07-2012 Worked as a Software Developer

SPAZIO IMPEX PVT LTD, CHENNAI.

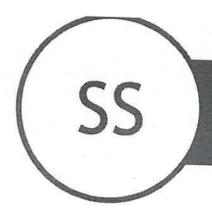
From 02-01-2010 to 28-02-2011 Worked as a Software Developer

REPUTE EXPRESS INDIA PVT LTD, CHENNAI.

From 05-02-2009 to 10-12-2009 Worked As A Software Developer

EDUCATION

- > Pursing Ph.D (Part Time) in Anna University, Chennai.
- > M.C.A. Passed Out In 2008 With 73% From Bharathiyar College Of Engineering And Technology, Thiruvettakudi, Karaikal, Pondicherry University.
 - Successfully organized national level technical symposium.
 - Received best out gone student award.
- ➤ B.C.A Passed Out In 2004 With 59% From T.B.M.L Arts And Science College, Porayar, Bharathidasan University.



S. SELVAGANAPATHY MCA, (PH.D.)

1BASSISTANT PROFESSOR EMAIL: SGANAPATHY84@GMAIL.COM MOBILE: + 91 9487691901, 9710196914.

VOLUNTEER EXPERIENCE OR LEADERSHIP

Successfully Organized Two International and Three National Conferences.

COMMUNICATION

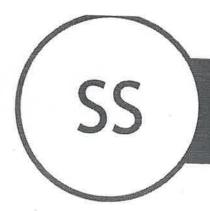
Given one day guest lecture at Bharathiyar College of Engineering and Technology on the topic "R Programming" on 15-07-2017.

ACHIEVEMENTS

- ✓ Received sponsor from TNSCST to conduct one week workshop on VMware virtualization.
- ✓ Produce more than 95% results in all university exams till now.
- ✓ Successfully counsel the students to become entrepreneur and guiding the innovative consultancy projects.
 - As of now 3 startup company's started by our guidance.

CERTIFICATIONS & COURSES

- ✓ Two Weeks FDP on C Programming "E-Box", E-Box Academy,
 Coimbatore, 2014. Got Certificate for C Programming Trainer.
- ✓ Two Weeks FDP on "VSphere", VMware Bangalore, 2015. Got Certificate for VMWare VSphere Trainer.
- ✓ One Week National Workshop on Data Analytics with "R Programming", Annamalai University, Chidhambaram, 2016.
- ✓ Two Week FDP on Entrepreneurship Development Sponsored by NSTEDB
- ✓ One Week Skill development program and Entrepreneur for PM Yuva Yojana Entrepreneurship Faculty educator program on
- ✓ 2017. Got Certificate PM Yuva Yojana Faculty Felicitator



S. SELVAGANAPATHY MCA, (PH.D)

1BASSISTANT PROFESSOR EMAIL: SGANAPATHY84@GMAIL.COM MOBILE: + 91 9487691901, 9710196914.

CONFERENCE ATTENDED

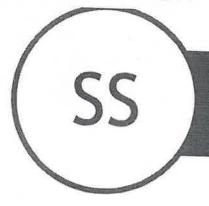
- ➤ International conference on advanced in engineering, science and management @ 2012.
- ➤ International conference on Advances in engineering and technology @ 2014.
- ➤ International conference on research and development in information & communication technology @2016.
- > National Level seminar on "recent trends in BIG DATA
- > National conference on recent trends in computer science and applications

PUBLICATIONS

- "Automatic Image Tagging using template model for domain specific images", IJARET, 2014.
- ▶ "Farwell Brain Fingerprinting A New Paradigm In Criminal Investigations", IJAER, 2015.

SUBJECT & LABORATORY HANDLED

- Software Project Management and Project Development Lab
- > Computer Graphics and Multimedia and Multimedia Lab
- > Object oriented analysis and design & Case tools Lab
- Computer Organization
- Professional Ethics
- Object Oriented Programming Lab



S. SELVAGANAPATHY MCA, (PH.D)

1BASSISTANT PROFESSOR EMAIL: SGANAPATHY84@GMAIL.COM MOBILE: + 91 9487691901, 9710196914.

HONORS AND AWARDS

- ➤ Won cash award for 6 times for producing 100% subject result.
- > Won cash award for 3 times for producing more than 95% subject result.
- > Best Project selected during Internal Quality Audit.
- > Organized and involved in training the junior team members.

RESPONSIBILITIES HELD

- Class coordinator.
- Department NBA coordinator.
- Department Placement coordinator.
- International conference coordinator.
- Discipline committee member.
- Coordinator for various department programs.
- ➤ Department EDC Coordinator come PM YUVA YOJANA trainer.

REFERENCE

Mrs. J. Vanitha, (Associate Professor & Head),

Department of Computer Applications,

E.G.S Pillay Engineering College, Nagapattinam 611 002.

Mobile: 9443728519 Mail: vanitha@egspec.org

DECLARATION

I hereby declare that the above information is true to the best of my knowledge and belief.

Yours Sincerely,

(S. Selvaganapathy)



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS) NAGAPATTINAM - 611002

Accredited by NAAC with 'A' Grade (An ISO 9001:2008 Certified Institution)





Ref. No: EGSPEC/MCA/CW/CAMS/2019/02

Date: 26.07.2019

To

Mr. Gopalakrishan Sri Sai cable TV Cable No 4, VKV Comblex, Sirangudipuliyur, Bypass Rd, Nagore, Sikkal, Tamil Nadu 611104

Respected sir

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, documents

We are waiting for your positive reply

Thanking you

[Mrs. A.HEMA]

Contact Details
Mrs.A.HEMA
Assistant Professor
Department of MCA
E.G.S. Pillay Engineering College
Nagapattinam
Contact NO 7598690251



ef. No: SAISRI/CW/MCA/CO/2019/02

10/11/2019

To:

Mrs. A.Hema

Assistant Professor

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam

Respected Madam

Thanks for your concern, it will be favour for us if your can unionize the review meeting for the discussion for project proposal on 22.11.2019. We here by put the demand of following details such as project coordinators details, evaluations model and completed status for each module. I hope two move review will be arranged to check the progress of your consultancy work. It will be tentatively on 06.12.2019 and 12.02.2020. We Would like to furnish the following requirements of us

Thank you

Sincerely,

S. Gopalakrishan







1. PROJECT PROPOSAL

01	Title of the Project		Cable TV operator Billing Management System
02	Type of the Project	:	Consultancy Work
03	Name & Designation of the Project Coordinators	:	Mrs.A. HemaAP/MCA Ms.SelvagapatyhyAP/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. A.Hema AP/MCA Project Coordinator Contact No. 7598690251 Email:hema@egspec.org
06	Name of the Institution / Organization in which the project will be carried out	:	E.G.S Pillay Engineering College, Nagapattinam
09	Duration of the Project	7	July 2019 – April 2020
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

Place: Nagapattinam

Date: 03.09.2019

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 - 611 992,

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.

DETAILS OF BUDGET

Α	Description	Total(Rs)
	nses Recurring /Non –Recurring(salary/cost of labor, software opment, Travel and others	6000
В	Testing & Documentation charge	500
С	Institutional overhead charge	850
D	Total Charges(A+B+C)	7350
Е	Service Tax(12%)	882
F	Education Cess(3%) of(Service Tax)	26
G	Total Amount	8,258

Annexure - 2

ABSTRACT

"Cable TV Operator Billing Management System" is integrated and automation software for cable operators. Cable operators will distribute TV channels to their customers for that they charge some money monthly. To maintain their customers and the number of users this software provides automation. In this COM System, they can main their staff member's details and customer details. By using this COM System they can divide their areas macro parts to micro parts. By using this system they can meet their business requirements. Cable Operators once they divided their areas into micro parts then they can assign their staff members to take care of their micro part areas.

Software Requirements:

OPERATING SYSTEM

: WIN NT

FRONT END

: VB.NET

BUSINESS LOGIC

: VB.NET

DATABASE

: MS.Access

Hardware Requirements:

PROCESSOR

: P3 or HIGHER

RAM

: 512MB

HARD DISK

: 20GB

WORK PLAN

		WURK PLAN	T T	
Phase	Cycle	Primary Objective	Scheduled start or milestone	Duration Estimate
Inception / Requirements Analysis	C1	✓ Analyzing Requirements✓ Collecting ProjectRequirements	July 2019	30days
Elaboration	C2	✓ Identifying Technical Assistant✓ Installation and Setup	August 2019	31days
Designing	C3	 ✓ Designing Prototype Model ✓ Project Review Status ✓ Preparation Submission ✓ Project Modules Preparation 	September 2019	31days
Implementation	C4	 ✓ Start to develop Coding each Modules ✓ Preparing Workspace model and verify with abstract. ✓ Identify the Risk and Measure the values of on it. 	October 2019	30 days
Construction	C5	 ✓ Complete the Project and meet with Abstract ✓ Objectives and Outcome mapped with the Module ✓ Project Final Phase meeting 	November 2019	31days
Transitions /End	C6	✓ Preparing Documentation Part✓ Final Project Presentation	December 2019	31days

EXPECTED OUTCOMES

- External Outputs, whose destination is outside the organization, Internal Outputs whose destination is within organization and they are the user's main interface with the computer.
- > Operational outputs whose use is purely with in the computer department.
- > Interface outputs, which involve the user in communicating directly



E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS) NAGAPATTINAM - 611002

Accredited by NAAC with 'A' Grade (An ISO 9001:2008 Certified Institution)





Ref. No: EGSPEC/CW/MCA/COMS/2019/03 Date: 19.09.2019

To

Mr. Gopalakrishan Sri Sai cable TV Cable No 4, VKV Comblex, Sirangudipuliyur, Bypass Rd, Nagore, Sikkal, Tamil Nadu 611104

Respected sir

SUB: Consultancy work-reg

As per the requirements given by during our project discussion we have attached completed project proposal for your kind reference. I kindly request you to fix one date for using the further project details . In this meeting we will discuss about project requirements , maintained , reporting budget details also

With regards

[Mrs. A.Hema]

Contact Details

Mrs.A.HEMA
Assistant Professor
Department of MCA
E.G.S. Pillay Engineering College
Nagapattinam
Contact NO 7598690251



ef. No: SAISRI/CW/MCA/CO/2019/03

20/03/2020

To:

Mrs. A.Hema

Assistant Professor

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam

Respected Madam

Thank you we are satisfied with your project that you heave so far completed . It will be reformative to us if you completed the forthcoming module within the tentative date as project report are near the dealine

Thank you

Sincerely,

S. Gopalakrishan



9698008348



Saisai@gmail.com





ef. No: SAISRI/CW/MCA/CO/2019/04

6/04/2020

To:

Mrs. A.Hema

Assistant Professor

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam

Respected Madam

We congratulate you and your team for successful completion of the "Cable Operator Management System" 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 17.04.2020

Hence as discussed we have enclosed a Cheque no: 012345 date 06.04.2020 of Indian bank for Rs. RS. 8,258/-/- favoring "The principal E.G.S. Pillay Engineering College Nagapattinam

We once again felicitate the staff members' who have taken the project work and the faculty members

Sincerely,

S. Gopalakrishar







MINUTES OF MEETING

EGS PILLAY ENGINEERING COLLEGE, NAGAPATTINAM DEPARTMENT OF MCA

PROJECT COORDINATORS LIST

S.NO	NAME OF THE PROJECT	PROJECT COORDINATORS	STUDENT COORDINAOTS
1	Cable Operator	MrsA.Hema AP/MCA	E19CAR002-GAYATHRI
	Management System	Mr. S.Selvaganapathy AP/MCA	E19CAR009-SASIREKA



Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai (Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.orgwebsite: www.egspec.orgPh: 04365-251112

Department of MCA UTILIZATION CERTIFICATE

Name of the project	Cable Operator Management System
Name of the coordinator	Mrs. A.Hema AP/MCA
	Mr. S.Selvaganapathy
Name of the	SRI SAI CABLE TV CABLE VISION
Agency	No 4, VKV Comblex,
	Sirangudipuliyur, Bypass Rd, Nagore, Sikkal, Tamil Nadu 611104
Type of the	Software Project
project	
Duration	June 2019 – April 2020
Project cost	RS. 8,258/-

Certified that I have satisfied myself that the conditions on which the grant in aid was offered have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was offered

Grant	Details of Expenditure incurred ites wise	Amount (Rs)
Sanctioned		
	1.Coordinator and Technical staff Honorarium	5,000.00
	2.working expenses (reprographics services, postage, transport daily wages tea/coffed etc.,)	500
8,258/-	2. Contribution to institution	15222,00
•	Total	7,022
*:	Amount Received (Rs.)	7,022
	Balance to be Received(Rs.)	1236

Signature of the

Head of the Department

DrwitNSeMiTHA Head of the Department Department of MCA E.G.S. Pillay Engineering Carr Nagapattinam - 611 002.

Signature of Project Coordinator(s)

Signature of the

Head of the Institution

Dr. S. RAMABALAN, M.E., Ph.D., PRINCIPAL E.G.S. PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611 002.

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Operator Billing Management System J.	rey sment 3 you	Leve Jane	
LATA CARA CONTINUE CO			
Received payment		9.9	8258
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Signature of Payee	Accounts Supdt.	Secretary	Principal