



NANDHA COLLEGE OF TECHNOLOGY, ERODE

Research and Development Cell

Academic Year 2019-20

Grants Received Details

Academic Year 2019-20

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (INR in lakhs)	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
Machining-power loom parts	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.0048	2 days	Mass Electronics	Non-Government
Machining-ceiling cover(2 hole),bearing cover(2 hole),UKL adafter,end cup adafter,small adafter,permit port	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.12685	12 days	Sai Marketing	Non-Government
Machining-4" end cup cover,bearing cover 1000PSI,end cup adafter,SS pipe,permit port,RO adafter,inter connector,UPVC pipe thread,ceiling cover(2 hole),permit port(length),ceiling cover,HTTPE washer,bearing cover 1000PSI(rework),bearing cover 1000PSI	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.22095	30 days	Sai Marketing	Non-Government
Machining-permit port,end cup cover,end cup adafter,MS shaft turning & keyway,SS flange turning & drilling,advance adapter,MS & gun metel turning	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.10375	10 days	Sai Marketing	Non-Government
Machining-1.5 inch SS vitalic grooving(single side), 1.5 inch SS vitalic grooving(double side)	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.05216	7 days	Akshara Water Treatment	Non-Government
Machining-power loom parts	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.2422	7 days	Mass Electronics	Non-Government
Solid Waste Management System for Hot Water Generation Using Incinerator for Ladies Hostel Application	Mr.P.Manickavasagam	Mechanical Engineering	2019-20	0.075	15 days	Tamilnadu State Council for Science and Technology (TNSCST),Govt.of Tamilnadu.	Government

Certain Investigation on Motor Shadowing and Secure Systems Based on GPS and GSM	Mr.P.Vinothkumar	Electronics and Communication Engineering	2019-20	0.075	15 days	Tamilnadu State Council for Science and Technology (TNSCST),Govt.of Tamilnadu.	Government
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R&D CO-ORDINATOR


PRINCIPAL



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From
Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To
The Secretary,
Nandha Educational Institutions,
Erode-638052.

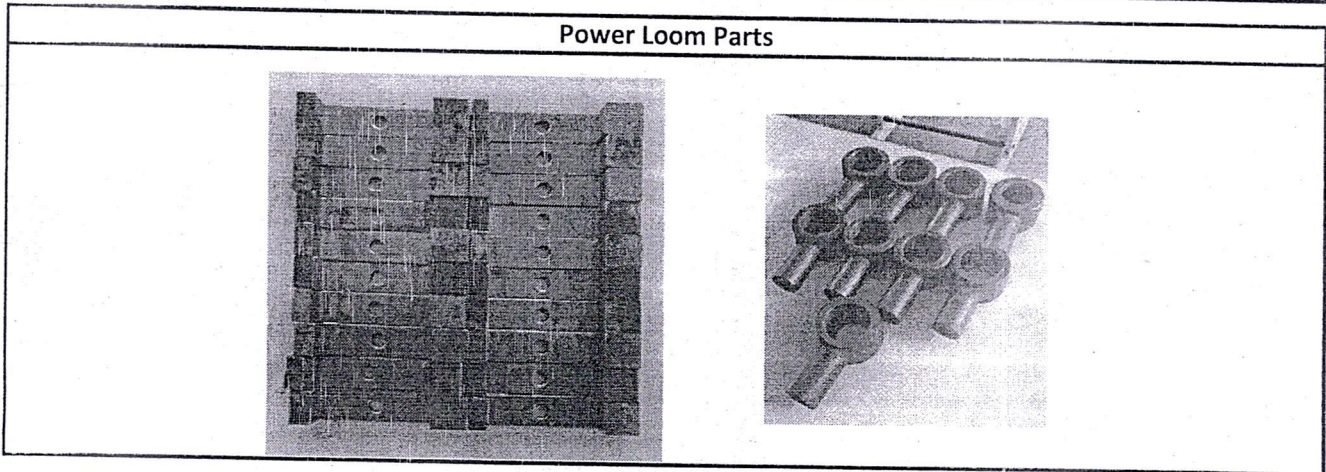
Respected Sir,
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK	FACULTY I/C	TECHNICIAN
CW-4	Mass Electronics	Machining	P.Manickavasagam HOD/Mech	E.Vinayagamoorthy
	Units	Unit cost	480	Total Cost
				480

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
Tamilnad Mercantile Bank Ltd	Mass Electronics	Perundurai	159001	480	21.06.2019

Power Loom Parts



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
192	288	

[Signature]
Consultancy i/c
Department

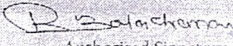
[Signature]
Consultancy i/c
NCT


[Signature]
Principal

[Signature]
Secretary

2
9/9/19

Cheque

TMB Tamilnadu Mercantile Bank Ltd Banker to the Government of India	PERUNDURAI Branch D.NO 21, V.V.V.COMPLEX BHAVANI ROAD PERUNDURAI - 638052 IFS Code: TMBL000179	Valid for three months from the date of issue 21 06 2019 D D M M Y Y Y Y
	New Account	
Pay	The Principal Nandha College of Technology	OR BEARER या धारक को
Rupees रुपये	Four hundred Eighty Only	अदा करे ₹ 480/-
A/c. No.	179700050900250	Cheque No. 01159001
Payable at all our branches		For MASS ELECTRONICS  Authorised Signatory Please sign above
⑈ 15900 1⑈ 638060003⑈ 010179⑈ 29		


Principal
Nandha College of Technology
Erode-52.



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From
Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To
The Secretary,
Nandha Educational Institutions,
Erode-638052.

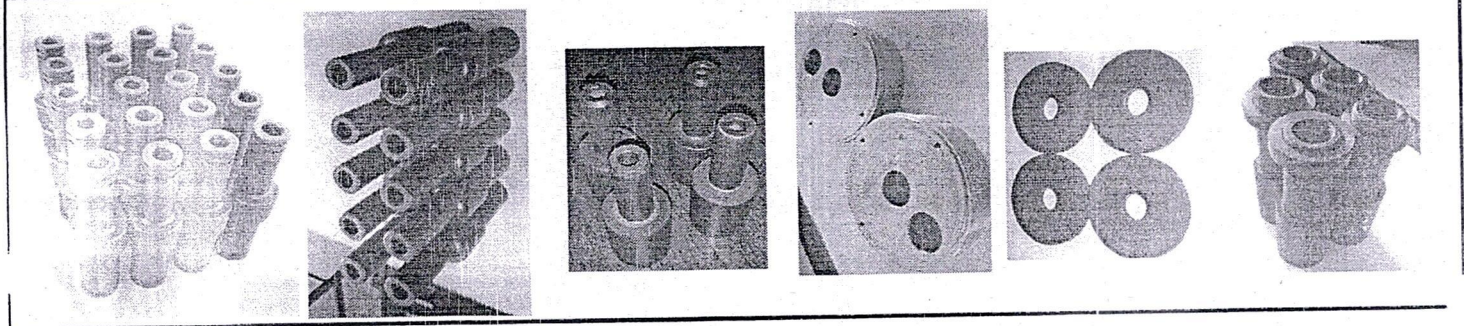
Respected Sir,
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK	FACULTY I/C	TECHNICIAN
5-15	Sai Marketing	Machining	P.Manickavasagam HOD/Mech	E.Vinayagamoorthy
	Units	Unit cost	Total Cost	12685
	60+35+4+4+4+10	75+75+60+650+180+200		

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
THE FEDERAL BANK	sai marketing	Perundurai	7245	12685	18.07.2019

celling cover (2 hole), bearing cover (2 hole), Ukl adafter, End cup adafter,, small adafter), Permit port



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
5074	7611	

[Signature]
Consultancy i/c
Department

[Signature]
Consultancy i/c
NCT

[Signature]
Principal

[Signature]
Secretary
9/9/19

[Signature]
Principal
Nandha College of Technology
Erode-52.

Cheque

FEDERAL BANK <small>Perundurai Br. [tn] Erode Dist - 638052 IFSC: FDRL0001803</small>	ODC ACCOUNT <small>Valid for 3 months only OD- BLAPS-SME</small>	18 07 20 19
Pay THE PRINCIPAL NANDHA COLLEGE OF TECHNOLOGY		
रुपय Rupees TWELVE THOUSAND SIX HUNDRED EIGHTY FIVE ONLY		
अदा करें ₹ 12,685/-		
1803560000109	Chq.No. 10007245 SG	For SAI MARKETING AUTHORISED SIGNATORY
PAYABLE AT ALL BRANCHES OF FEDERAL BANK		
@007245@ 638049003: 101803 30		

Bank-Receipt

DEPOSIT / PAY IN SLIP Indian Bank		
Branch/Branch		
Date: 02/07/2019		
SB/CA/OD/CC/RD/TL/DL A/c No./Credit Card No.		
60195257793		
Name: The Principal, Nandha College of Technology		
Amount: 12,685		
Rupees in words: Twelve thousand six hundred eighty five only		
1007245	12/7/19	12,685
The Federal Bank		
Perundurai		
Quotient/Total		12,685
Do Not share Text/Photo/Video Details Password to any Person Indian Bank Toll Free 1800 425 00 200		

Principal
Nandha College of Technology
Erode-52.



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From

Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To

The Secretary,
Nandha Educational Institutions,
Erode-638052.

Respected Sir,

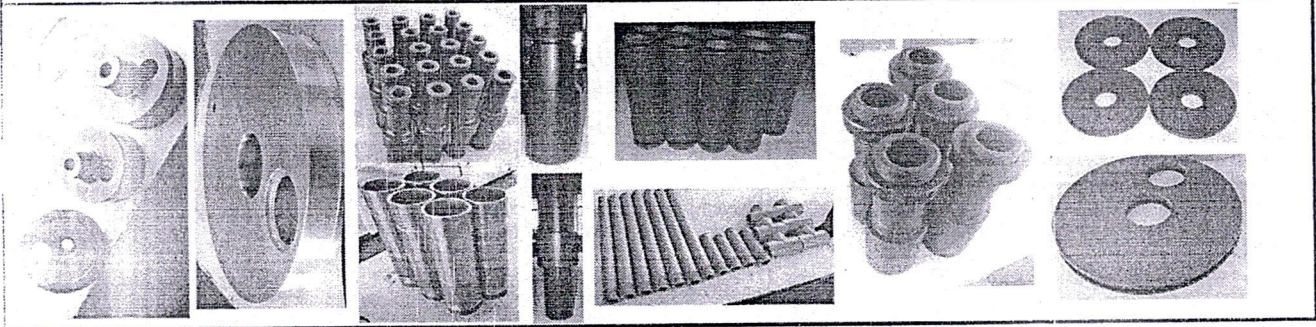
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK	FACULTY I/C	TECHNICIAN
CW 16-33	Sai Marketing	Machining	P.Manickavasagam HOD/Mech	E.Vinayagamoorthy
	Units	Unit cost	Total Cost	22095

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
THE FEDERAL BANK	sai marketing	Perundurai	8359	22095	05.08.2019

4" End cup cover, bearing cover 1000PSI (aluminium), End cup adapter, SS pipe, Permit port, RO Adapter, Inter connector, UPVC pipe thread, ceiling cover (2 hole), Permit port (length), ceiling cover, HTTPE washer, bearing cover 1000 PSI (rework), bearing cover 1000 PSI



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
8838	13257	

P. Manickavasagam
Consultancy i/c
Department

P. Manickavasagam
Consultancy i/c
NCT

P. Manickavasagam
Principal

S. T.
Secretary
9/9/19

P.
Principal
Nandha College of Technology
Erode-52.

Cheque

<p>THE FEDERAL BANK LIMITED</p> <p>Perundurai Br. (tn) Erode Dist - 638052 IFSC: FDRL0001803</p>	<p>ODCC ACCOUNT Valid for 3 months only</p> <p>OD- BLAPS-SME</p>	<p style="font-size: 24px; font-weight: bold;">05082019</p> <p style="font-size: 10px;">D M Y Y Y</p>
<p>Pay <u>THE PRINCIPAL NANDHA COLLEGE OF TECHNOLOGY</u> या धारक को or Bearer</p> <p>रुपये Rupees <u>Twenty Two Thousand And Ninety Five only</u></p> <p style="text-align: right;">₹ <u>22,095/-</u></p>		
<p>A/c No. <u>18035600000109</u></p>	<p>Chq. No. <u>10008359</u> SG</p>	<p>For SAI MARKETING</p> <p style="text-align: center;"><i>[Signature]</i></p> <p>AUTHORISED SIGNATORY AUTHORIZED SIGNATORY AUTHORISED SIGNATORY Please Sign above</p>
<p>PAYABLE AT ALL BRANCHES OF FEDERAL BANK</p>		
<p>⑈008359⑈ 638049003⑈ 101803⑈ 30</p>		

Bank-Receipt

<p>DEPOSIT / PAY IN SLIP</p> <p>Indian Bank</p>	
Branch	THOTTANI
Date	05/08/19
SB/CA/OD/CO/RD/TL/DL A/c No./Credit Card No.	6043852793
Account Name	The Principal Nandha College of Tech
Account No./Tel. No.	9688007250
Amount	22,095/-
Amount in words	Twenty two thousand and Ninety Five only
Bank Stamp	<p>008359/05/08/19 22,095/-</p> <p>Federal Bank</p> <p>Perundurai Branch</p>
Signature	<p><i>[Signature]</i></p> <p>Do not show Your PAN/ID Card Details to any person</p>

**Principal
Nandha College of Technology
Erode-52.**



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From

Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To

The Secretary,
Nandha Educational Institutions,
Erode-638052.

Respected Sir,

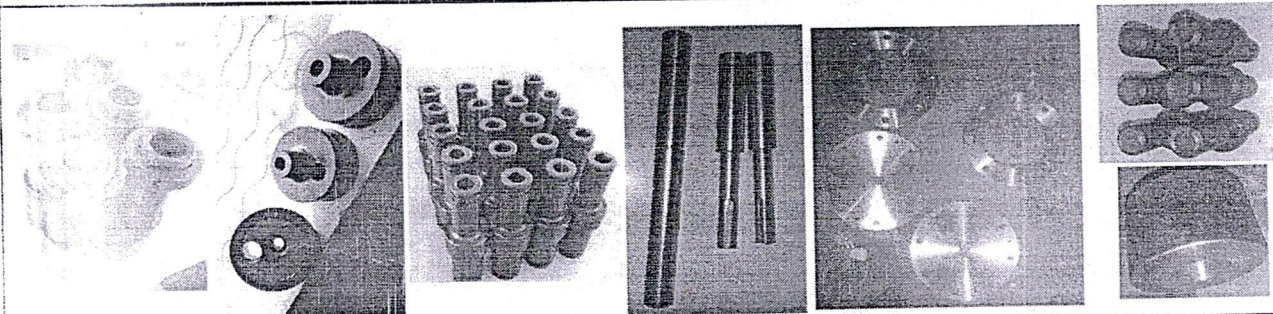
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK		FACULTY I/C	TECHNICIAN	
CW 34-43	Sai Marketing	Machining		P.Manickavasagam HOD/Mech	E.Vinayagamoorthy	
	Units	20+1+27+2+1+4 +16+1	Unit cost	200+250+75+450+ 400+300+75+400	Total Cost	10375

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
THE FEDERAL BANK	sai marketing	Perundurai	8373	10375	30.08.2019

Permit port, End cup cover, End cup adafter, MS shaft Turning & keyway, SS flange Turning & drilling, Advance adapter, MS & gun metal Turning,



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
4150	6225	

[Signature]
Consultancy i/c
Department

[Signature]
Consultancy i/c
NCT

[Signature]
Principal

[Signature]
Secretary
2
8/8/19

Principal
Nandha College of Technology
Erode-52.

Cheque

FEDERAL BANK LIMITED
 Perundurai Br. [10]
 Erode Dist - 638052
 IFSC: FDRL0001803

ODCC ACCOUNT
 Valid for 3 months only
 OD - BLAPS-SME

3 0 | 0 8 | 2 0 | 1 9
 D O M M Y Y Y

Pay **THE PRINCIPAL NANDHA COLLEGE OF TECHNOLOGY** या धारक को or Bearer

कम से Rupees **TEN THOUSAND THREE HUNDRED SEVENTY FIVE ONLY**

अथ करं ₹ **10,375/-**

च. नं. /
 A/c No. **18035600000109**

Chq. No. **10008373**
 5G

FOR SA1 MARKETING

AUTHORISED SIGNATORY *[Signature]*
 AUTHORIZED SIGNATORY
 AUTHORIZED SIGNATORY

PAAYABLE AT ALL BRANCHES OF FEDERAL BANK

⑈008373⑈ 638049003⑈ 101803⑈ 30

Bank-Receipt

DEPOSIT RECEIPT SLIP

Indian Bank

Branch/Location

Date **04/09/2019**

SB/CA/OD/CC/RD/TL/DL A/c No./Credit Card No.
6092852793

Client Name **The Principal, Nandha College of Technology**

Amount **10,375/-**

मूल्य शब्दों में Rupees / words **Ten thousand three hundred seventy five only**

8373	20/19	10,375	-
The Federal Bank			
Received			
Total		10,375	-

Do not share Your PIN/OTP/Card Details Password to any Person

Indian Bank Toll Free 1800 425 00 500

[Signature]
Principal
Nandha College of Technology
Erode-52.



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From

Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To

The Secretary,
Nandha Educational Institutions,
Erode-638052.

Respected Sir,

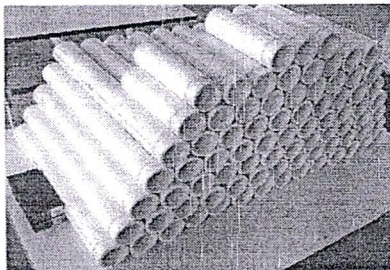
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK		FACULTY I/C	TECHNICIAN
W 1-3	Akshara Water treatment	Machining		P.Manickavasagam HOD/Mech	E.Vinayagamoorthy
	Units	30+80+24	Unit cost	80+22+44	Total Cost
					5216

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
Indian Overseas Bank	Akshara	Perundurai	Payment by RTGS	5216	03.09.2019

1.5 inch SS vitalic grooving (single side) , 1.5 inch SS vitalic grooving (double side)



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
2086.4	3129.6	

[Signature]
Consultancy i/c
Department

[Signature]
Consultancy i/c
NCT

[Signature]
Principal

[Signature]
Secretary
9/5/19

[Signature]
Principal
Nandha College of Technology
Erode-52.

e-Receipt



இந்திய சீர்தர இலா
Indian Overseas Bank
Good People to grow with.

e-Receipt
IMPS Transaction Details

Txn Date	03/09/2019
From Account Number	090302000080603
Ifsc Code	IDIB060T137
To Account Number	6093852703
Sender Information	Akshera
Amount	5216.00
UTR Number	924611962263

Principal
Nandha College of Technology
Erode-52.



NANDHA COLLEGE of TECHNOLOGY, ERODE-52

DEPARTMENT OF MECHANICAL ENGINEERING

2019-2020

Consultancy Work

From

Mr. P.Manickavasagam,
Head of the Department,
Department of Mechanical Engineering,
Nandha College of Technology,
Erode-638052.

To

The Secretary,
Nandha Educational Institutions,
Erode-638052.

Respected Sir,

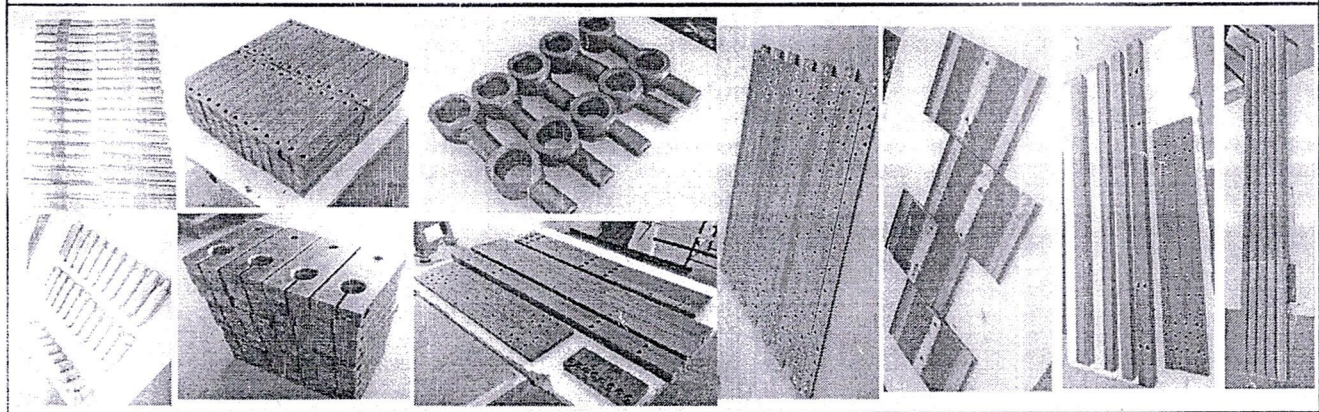
Sub: 2018-19 – Consultancy work – Mechanical Engineering – Reg.

Work Order	COMPANY	NATURE OF WORK	FACULTY I/C	TECHNICIAN
CW 44-48	Mass Electronics	Machining	P.Manickavasagam HOD/Mech	E.Vinayagamoorthy
	Units	Unit cost	Total Cost	24220

Cheque- Details

Bank	Drawee	Branch	Cheque No	Amount	Date
Taminad Mercantile Bank Ltd	Mass Electronics	Perundurai	159020	24220	04.09.2019

Power Loom Parts



Share		
Institution	Faculty	Faculty Name with Designation
40%	60%	P.Manickavasagam HOD/Mech
9688	14532	

Consultancy i/c
Department

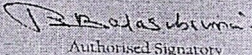
Consultancy i/c
NCT

Principal

Secretary
9/9/19


Principal
Nandha College of Technology
Erode-52:

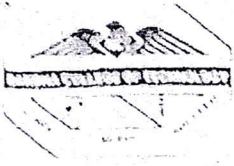
Cheque

TMB	PERUNDURAI Branch D.NO.21, V.S.V. COMPLEX, BHAVANI ROAD PERUNDURAI - 636052 IFS Code: TMIL000179	Valid for three months from the date of issue. 04 09 20 19 D D M M Y Y Y Y
Pay <u>The Principal, Nandha College of Technology</u>		OR BEARER या धारक को
Rupees <u>Twenty four Thousand Two hundred</u> <u>and Twenty only -</u>		अदा करे ₹ <u>24,220/-</u>
A/c. No. <u>179700050900250</u>	Cheque No. <u>01159020</u>	For MASS ELECTRONICS  Authorised Signatory Please sign above
Payable at all our branches		
@ 159020 @ 638060003 @ 010179 @ 29		

Bank-Receipt

DEPOSIT / PAY IN SLIP	
Indian Bank THOPANI	
Branch / Branch	
Date <u>04 09 20 19</u>	
SB/CA/OD/CC/CD/TL/DL A/c No./Credit Card No.	
<u>6093952793</u>	
Cheque / Name of Principal <u>Nandha</u> Institution / Coll. No. <u>College of Technology</u>	
Amount <u>24,220/-</u>	
Rupees in words <u>Twenty four</u> <u>Thousand Two hundred and Twenty only</u>	
Date <u>04 09 20 19</u>	Amount <u>24,220/-</u>
Branch <u>Perundurai</u>	Total <u>24,220/-</u>
Officer/Cashier/SWO	Do not stamp Your PIN, OTC Card Getter Pass-Word in any Person Indian Bank Toll Free 1800 425 00 000


Principal
Nandha College of Technology
Erode-52.



NANDHA COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi - F No : 06/05/Tr/E&T/2008/33

Affiliated to Anna University, Chennai.

NCT/TNSCST/UC Submission/ 2019-2020/01

Date: 09.11.2020

To

The Member Secretary,
Tamil Nadu State Council for Science and Technology,
DOTT Campus, Chennai- 600025.

Respected Sir/ Madam

Sub: Submission of Utilization Certificate for our student Projects (2019-20) Engineering Stream -Sanctioned by TNSCST- Reg.


Ref: With Reference to your letter No: TNSCST/ SPS/ AR/ 2019-20 Dated 18.03.2020.

Two of our students Projects EEE-095 and EME-086 were sanctioned by the Tamil Nadu State Council for Science and Technology, Chennai under student project scheme (2019-20) with a Funding amount of Rs 15000/- and it was effectively Utilized for the development of the Projects

We here by submitting the Utilization Certificates for the above said student Project for your reference

Yours faithfully,




Principal
Nandha College of Technology
Erode-52.

Enclosure:


Two sets of Utilization certificates for two students Projects.

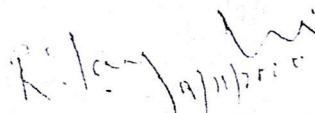
FAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2019-2020
UTILISATION CERTIFICATE


1. Name of the guide and address
Mr. P. Anoth Kumar
Assistant Professor,
Department of ECE,
Nandha College of Technology,
Erode - 638 052.
2. Name of the student(s)
J. Shrividyalakshmi
M. Manimegala
K. Nandha Kumar
R. Ilango
3. Title of the project
Certain Investigation on Motor Shadowing an Secure
Systems Based on GPD and GSM
4. Project code : FEE-095

It is certified that a sum of Rs 7500/- (Rupees: Seven Thousand Five hundred only) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs 0 remaining unutilized is refunded


Signature of the guide


Signature of the HOD




Principal
Nandha College of Technology
Erode-52

FORMAT FOR STUDENT PROJECT PROPOSAL

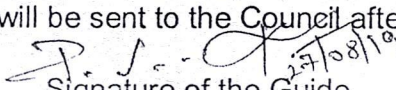
1. Name of the Student (s) : J. SHRIVIDYAALAKSHMI, M. MANIMEGALAI, K. NANDHA KUMAR, R. ILANDIO
one valid e-mail id : manima.154342@gmail.com
2. Name of the Guide : P. VINOTHKUMAR
Department / Designation : ECE / AP
Institutional Address : NANDHA COLLEGE OF TECHNOLOGY
Phone No. & Mobile No. : 9865 883191
3. Project Title : CERTAIN INVESTIGATION ON MOTOR SHADOWING AND SECURE SYSTEMS BASED ON GPS AND GSM.
4. Sector in which your Project proposal is to be Considered : Agriculture/Biology/Physical/ Environment/ Medicine/ Veterinary/Social-Sciences/Engineering & Tech.(Chemical /Computer Science/ Civil/ Mechanical/ Electrical, Electronics, Instrumentation, Communication) (Specify only one sector)
5. Project Details : (write up (max. 5 pages only) is to be given for each item including justification for acquiring / fabricating equipments / apparatus in the budget)

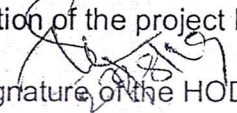
1. Introduction
2. Objectives
3. Methodology
4. Work Plan
5. Budget
6. Any other details

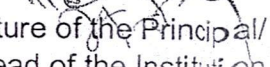
7. Has a similar project been carried out in your college / elsewhere? If so furnish details of the previous project and highlight the improvements suggested in the present one : NA

CERTIFICATE


This is to certify that Mr./Miss. J. SHRIVIDYAALAKSHMI is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2020.


Signature of the Guide


Signature of the HOD


Signature of the Principal/
Head of the Institution

N.B.: 2 copies of the proposals are to be submitted through proper channel to The Member Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before 31 AUGUST 2019, 5 pm.


Principal
Nandha College of Technology
Erode-52.


CERTAIN INVESTIGATION ON MOTOR SHADOWING AND SECURE SYSTEMS BASED ON GPS AND GSM

ABSTRACT

- Currently almost of the public having an own vehicle, theft is happening on parking and sometimes driving insecurity places. The safe of vehicles is extremely essential for public vehicles. Vehicle tracking and locking system installed in the vehicle, to track the place and locking engine motor. The place of the vehicle identified using Global Positioning system (GPS) and Global system mobile communication (GSM). These systems constantly watch a moving Vehicle and report the status on demand. When the theft identified, the responsible person send SMS to the microcontroller, then microcontroller issue the control signals to stop the engine motor. Authorized person need to send the password to controller to restart the vehicle and open the door. This is more secured, reliable and low cost.

INTRODUCTION

- In the last few decades, India has progressed at such an enormous rate that many companies have strongly established themselves here. These companies bring a huge amount of workforce with them. Arranging transportation to such a huge mass is a cumbersome task involving many intricacies. Generally, this transport is arranged through the local transport vendors on a yearly contract basis, recently happen mishaps such as burglary, rape cases etc. The development of satellite communication technology is easy to identify the vehicle locations. Vehicle tracking systems have brought this technology to the day-to-day life of the common person. Today GPS used in cars, ambulances, fleets and police vehicles are common sights on the roads of developed countries. All the existing technology support tracking the vehicle place and status The GPS/GSM Based System is one of the most important systems, which integrate both GSM and GPS technologies.


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OBJECTIVES

- The objective is to introduce the technology behind vehicle tracking system and fleet management systems which would benefit lot of people including and customers commercial vehicle owners to keep track on their moving aassets,certain unnecessary expenses on fuel,identify vehicle misuse increases operational efficiency and automatic its day -to-day operations.GPS works in any weather conditions,anywhere in the world 24hours a day.There are no subscription fees to setup changes to use GPS.The uses of vehicle tracking to provide real time data and feedback oon commercial fleet's operation at efficiency is one-way business are making smarter decisions.

METHODOLOGY

- Nature of the vehicle tracking and locking devices. They are active and passive. Active stores unlimited data for a creation amount of time and send the data via cellular or satellite or networks to the base station or to a computer of the data centre of evaluation.Passive stores GPS location ,speed,heading,vehicledetails,direction and sometimes a trigger event such as key on or off ,door open or closed.

They are three tracking methods:

- ❖ Automatic vehicle location system
- ❖ Assisted global positioning system
- ❖ Radio frequency identification

Automatic vehicle location:


It is an advanced method to track and monitor any remote vehicle with the device that receives and sends signals through GPS satellite.

Assisted global positioning system:

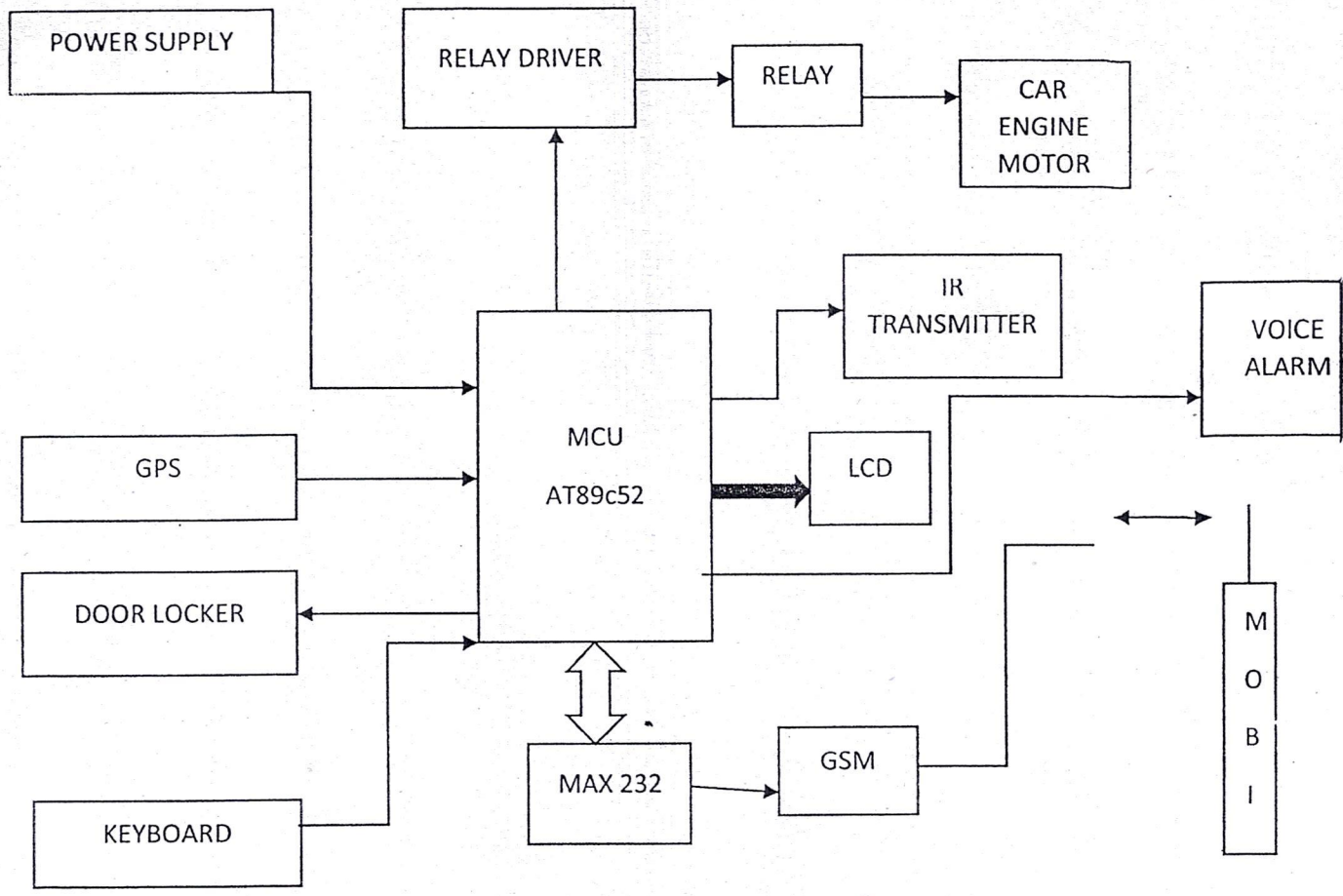
It is used to overcome the setbacks of GPS .A GPS uses both mobiles and cellular networks to locate the accurate positioning information.


Radio frequency identification:

It uses radio waves to capture data from tags.


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BLOCK DIAGRAM




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NANDHA COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi - E No : 06/05/Th.E&T/2008/83

Affiliated to Anna University, Chennai.

NCT/TNSCST/UC Submission/ 2019-2020/01

Date: 09.11.2020

To

The Member Secretary,
Tamil Nadu State Council for Science and Technology,
DOTE Campus, Chennai- 600025.

Respected Sir/ Madam

Sub: Submission of Utilization Certificate for our student Projects (2019-20) Engineering Stream -Sanctioned by TNSCST- Reg.


Ref: With Reference to your letter No: TNSCST/ SPS/ AR/ 2019-20 Dated 18.03.2020.

Two of our students Projects EEE-095 and EME-086 were sanctioned by the Tamil Nadu State Council for Science and Technology, Chennai under student project scheme (2019-20) with a Funding amount of Rs 15000/- and it was effectively Utilized for the development of the Projects.

We here by submitting the Utilization Certificates for the above said student Project for your reference

Yours faithfully,




Principal
Nandha College of Technology
Erode-52.

Enclosure:

Two sets of Utilization certificates for two students Projects.

Vakkalmedu, Erode Perundurai Road, Pitchandampalayam, (P.o), Erode - 638 052
Direct Ph : 04294 - 222116, 223434 Fax: 04294 - 222114 Cell No : 98425 71713
Website : www.nandhatech.org E-mail : principalnct@nandhainstitutions.org

FORMAT FOR STUDENT PROJECT PROPOSAL

1. Name of the Student (s) : 1) Loganathan - R, 2) Deepak . M 3) Dhivrajay . G, 4) Ar
one valid e-mail id : logu-ling64@gmail.com
2. Name of the Guide : Mr. P. Manickavasagam
Department / Designation : Mechanical / Associate Professor
Institutional Address : Nandha College of Technology, Vaikaimedu,
Erode - perundurai main Road, Erode - 638052
Phone No. & Mobile No. : 04294 - 222116, 9750550333
3. Project Title : Solid Waste management system for hot waste
regeneration using incinerator for Ladies host
APPLICATION
4. Sector in which your Project
proposal is to be Considered : Agriculture/Biology/Physical/ Environment/ Medicine/
Veterinary/Social Sciences/Engineering & Tech.(Chemical
/Computer Science/ Civil/ Mechanical/ Electrical,
Electronics, Instrumentation, Communication) (Specify
only one sector)
5. Project Details : (write up (max. 5 pages only) is to be
given for each item including justification for
acquiring / fabricating equipments / apparatus in
the budget)

- ✓ Introduction ✓ Work Plan
✓ Objectives ✓ Budget
✓ Methodology ✓ Any other details

7. Has a similar project been carried
out in your college / elsewhere? If
so furnish details of the previous
project and highlight the
improvements suggested in the
present one

Yes, in Kerala

① Storage Tank with
Improvements is made in temperature con
unit & ② Medically cleaning method is
introduced while burning the Napkins
③ Materials against Corrosion is been etc

CERTIFICATE


This is to certify that Mr./Miss. R. Loganathan is a bonafide final year
student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is
also certified that two copies of utilization certificate and final report along with seminar paper
will be sent to the Council after completion of the project by the end of April 2020.

Signature of the Guide
29/8/19

Signature of the HOD
29/8/19
Prof. P. Manickavasagam,
HOD / Mechanical,
Nandha College of Technology,
Erode - 638 052.

Signature of the Principal/
Head of the Institution
Principal
Nandha College of Technology
Erode-52.

N.B: 2 copies of the proposals are to be submitted through proper channel to The Member
Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before
31 AUGUST 2019, 5 pm.


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Erode-52.

NANDHA COLLEGE OF TECHNOLOGY,
ERODE-638052
DEPARTMENT OF MECHANICAL ENGINEERING
2019-2020
TNSCST-PROJECT PROPOSAL

Name of the Student(s) : 1) Loganathan.R 2) Deepak.M 3) Dhivagar.G 4) Arunkumar.S
One valid e-mail ID : loguking64@gmail.com
Name of the Guide : Mr.P.Manickavasagam
Department/Designation : Mechanical / Associate Professor
Institutional Address : Nandha College of Technology,
Vaikalmedu stop,
Erode-Perundurai Main Road,
Erode – 638 052.
Phone No. and Mobile No. : 04294-222116, 9750550333
Project Name : Solid waste management system for hot water
Generation using incinerator for ladies hostel
Application
Sector in which your project : Engineering and Technology (Mechanical)
Proposal is to be considered


Project details:

Introduction:

The heat extracted from combustion of napkin waste is used for generation of hot water using incinerator, their in reducing environmental pollution.

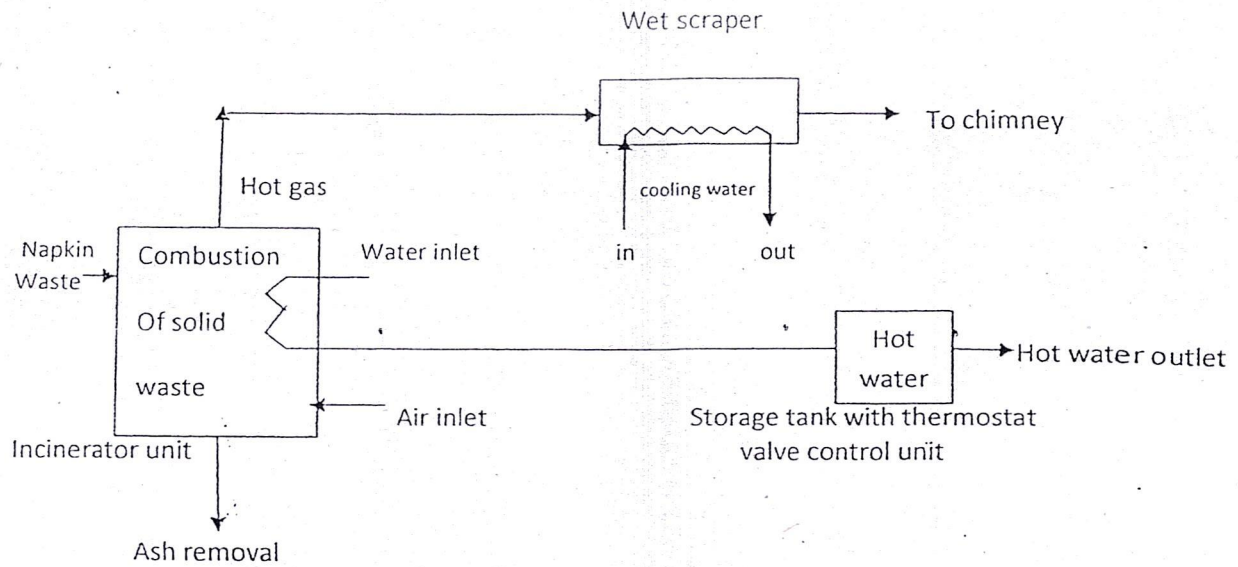
Objectives:

Waste heat recovery for hot water generation and minimizing pollution level of solid waste.


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NANDHA COLLEGE OF TECHNOLOGY
ERODE-638052
DEPARTMENT OF MECHANICAL ENGINEERING
2019-2020
TNSCST-PROJECT PROPOSAL

Methodology:



Work plan:

1. Calorific value determination for napkin waste.
2. Calculation of air requirement for combustion of napkin waste.
3. Formation of procedural preparation of napkin waste before combustion (In consultations with health and sanitation department).
4. Estimation of heat energy recovery from napkin waste combustion and ash collection.
5. Incinerator design.
6. Material selection and fabrication.
7. Installation and testing.


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