# MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI-623 806 AICTE SPONSORED MODROBS SCHEME

# RECEIPT & PAYMENT ACCOUNT

SI.No	Receipts	Amount (Rs.)	Total(Rs.)	Payments	Amount (Rs.)	Total (Rs.)
1.	Opening Balance	1,16,715.90	*	Purchase of Machineries	885000.00	
2.	Amount received from AICTE	15,98,400.00	17,15,115.90	From NR Acc. Head	884865.00	a
3.	Bank Interest	3778.00		*		
				From Recurring Acc Head	300000.00	20.69.865.00
		14893.00		Bank charges	123.90	123.90
7	1.1	14581.00		4	-	
		9255.00		Amount refunded to the	50000.00	
		6763.00		Management after purchase	30000.00	
		1806.00		of the machineries	50000.00	
	79.7	1364.00	52,440.00	095	50000.00	
		15000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		20000.00	
4.	Payments from Management for	2,00,000.00			185021.24	5,89,032.00
4.	the purchase of machineries as	2,00,000.00		•	201010.76	
	refundable loan	1,85,000.00		Closing Balance		
	·	1,71,465.00		In Hand	Nil	
		2,00,000.00		In Bank	Nil	
		54,000.00		a.		4
		50,000.00				
		25,000.00				
			8,85,465.00			
5	Amount received from MHRD HIGHE REMUNERATION	6000.00	6,000.00			W.
	HIGHE REMUNERATION		26,59,020.90		1	26,59,020.90

(Signature of Charted Accountant)

(Signature of

Mohamed Sathak Engineering College
Dat Kilakarai-623 806
Ramanathaouram

AUDITOR M.No: 52838 RAMNAD - 823 501

18/39, KADER PALILIVASAL STREET. RAMANATHAPURAM-623 501.

Phone: 9443684857

E.mail ID: armtaxadvocate@gmail.com

(Signature of Head of the Institute)

PRINCIPAL

PRINCIPAL

# ANNEXURE-VI

# **Annual Progress Report for**

# AICTE funded Project under Modernization and Removal of Obsolescence (MODROBS)

File No.

: 9-79/RIFD/MOD/Policy-1/2018-19 dated 02.12.2019.

(As mentioned in sanction letter)

Date of Sanction

: 24th February 2020

Subject Area

: MECHANICAL ENGINEERING

1. Project Coordinator

: Dr.M.Rajeshwaran

2. Project Title

: MODERNIZATION OF ADVANCED IC ENGINE LAB

3. Date of Commencement of the

Project

: 02.12.2021

4. Duration of the Project

: Two Years

5. Amount Sanctioned by AICTE

: Rs.19,98,000/-

6. Amount Released by AICTE

: Rs.15,98,400/-

7. Details of Expenditure

# A. NON-RECURRING

S.No	Particulars of the Equipment Procured	Quantity	TOTAL			
1	Computerized Four Stroke Single Cylinder Automotive CRDI Diesel Engine with Open ECU	1 No.	10,60,000.00			
2.	Determination of Viscosity, Calorific Value & Cetane Value of Solid / Liquid Bomb Calorimeter, Cloud and Pour Point Apparatus along with working table	1 No.	90,886.00			
3.	Auto Exhaust and Fluid Gas Analyzer	1 No.	2,70,220.00			
4.	Diesel Smoke Meter	1 No.	1,41,600.00			
	14,99,886.00					
	2,69,979.48					
	Grand Total					

performance and emission analysis of fuels. Also, the lab must be well equipped to undertake any consultancy work related to IC engines and vehicle performance testing which work on conventional fuels as well as Bio fuels. The results obtained must match with the ASTM and European Standards. The objectives of this lab are as follows:

- > Flow visualization using advanced optical techniques
- > Laser-based characterization of atomization and sprays
- > HCCI, GDI and other recent I.C engine developments
- > Simulation of I.C engine processes
- > Mathematical modeling of air flow, fuel sprays, combustion, emission formation and transport processes in I.C engines
- > CFD and FEM analysis of engine systems.
- 1. To carry out all advanced experiments for UG/PG & research students as per latest revised curriculum.
- 2. Helps the students to develop and fabricate Prototype models based on IC Engines during their end semester Project work.

Project Coordinator

(Signature and Seal with date)
Dr. M. RAJESHWARAN, ME, MIE, Ph.D.,
Professor,
Department of Mechanical Engineering,
Mohamed Sathak Engineering Cellege,
Kilakarai - 623 886.

Registrar/Director/Principal

(Signature and Seal with date)

### ANNEXURE - VII

### UTILIZATION CERTIFICATE

Sanction Letter No. 9-79/RIFD/MOD/Policy-1/2018-19 dated 02.12.2019

# A. NON-RECURRING

Sl .No	Name of the Equipment Procured	Amount Sanctioned	Amount Utilized	Unspent Balance
1	Computerized Four Stroke Single Cylinder Automotive CRDI Diesel Engine with Open ECU		12,50,800.00	
2	Determination of Viscosity, Calorific Value & Cetane Value of Solid / Liquid Bomb Calorimeter, Cloud and Pour Point Apparatus along with working table	13,58,640.00	1,07,245.00	
3	Auto Exhaust and Flue Gas Analyzer (Five gas Analyzer)		2,70,220.00	
4.	Diesel Smoke Meter		1,41,600.00	

Certified that the grant has been utilized for the purpose For which it was sanctioned in accordance with the "Terms and Conditions" attached to the grant. If, as a result of check or audit objection some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the amount objected to.

Finance Officer

CHIEF ACCOUNTS OF CERdate)
Mohamed Sathak Engineering College
Kilakarai-623 806.
Ramanathapuram District.

Registrar / Principal / Director

(Signature and Seal with date)

MOHAMED SATHAK ENGINEERING COLLEGE

KILAKARAI - 623 806.

Name and Address of the

University/Institution

Note: The Utilization Certificate (UC) will be signed by the Registrar/ Finance Officer in the case of Universities, Principals in the case of Colleges and Executive Heads of other Institutions. The Provisional UC may be countersigned by the internal auditors wherever the system of the internal audit exists. In case of the Self Financing/ Private Institutions, UC has to be signed by a Chartered Accountant.

<sup>\*</sup>This is to be submitted for every financial year.

# ANNEXURE -VIII PROJECT COMPLETION REPORT FOR MODROBS PROGRAMME

File No.

: 9-79/RIFD/MOD/Policy-1/2018-19

Date of Sanction

: 24th February 2020

Subject Area

: Advanced IC Engine

1. Project Coordinator

: Dr.M.Rajeshwaran

Professor/Department of Mechanical Engineering

Kilakarai-623806, Ramnad District.

Tamil nadu, India.

2. Project Title

: MODERNIZATION OF ADVANCED IC ENGINE LAB

3. Date of Commencement of the Project

: 02.12.2019

4. Duration of the Project

: 2 Years

5. Date of Completion

: 15.11.2021

6. Amount Sanctioned by AICTE

: Rs.19,98,000/-

7. Objectives of the Project

: To remove the obsolete equipments available in the Advanced IC Engine lab and equip the

lab with latest equipments and instruments as per the need of the revised and advanced syllabus to execute

the practical experiments prescribed.

# 8. Details of Expenditure

### A. NON-RECURRING

S.No	Particulars of the Equipment Procured	Quantity	TOTAL				
1	Computerized Four Stroke Single Cylinder Automotive CRDI Diesel Engine with Open ECU	1 No.	10,60,000.00				
2.	Determination of Viscosity, Calorific Value & Cetane Value of Solid / Liquid Bomb Calorimeter, Cloud and Pour Point Apparatus along with working table	1 No.	90,886.00				
3.	Auto Exhaust and Fluid Gas Analyzer & Diesel Smoke Meter (Combined Unit)	1 No.	3,49,000.00				
	Total Taxable						
			14,99,886.0				

	IGST@18%			
3	Grand Total	17,69,865.48		

### B. Recurring (Service charges etc.):

S.No	Particulars	Total
1.	Engine cabin with falseeling setup	185570.00
2.	RCC Bed (1:2:4) construction cost	18,644.00
3.	Aqua Tec Tank 1000-31w - Tank with half hp motor setup	13,200.00
4.	Electrical work	8,005.00
5.	Plumbing work	9,830.00
	TOTAL	2,35,243.00

9. Future Plans for Utilizing the Equipment and/ or Facilities Created

Getting knowledge with advanced techniques, the students are able to

- > Understand the working principle of IC engines, source of pollution formation and its control and recent trends in IC engines.
- > Understand the thermodynamic relations for thermal engineering devices.
- > Understand the working principle of different renewable energy sources.
- > Measure the properties of different fuels
- > Thermal engineering measuring devices, utilization of computers in measurement applications and advanced measuring systems.

Also these upgraded resources enable the faculty member to participate actively in conferences and paper publications in Scopus Indexed Journals.

 Whether There is Any Deviation from the Purposes for which Grant was Released. If so Details of Deviations to be Given.

: NO

Project Coordinator

Dr. M. RAJESHWARAN, ME, MIE, Ph.D.,

(Signatur Prade Seal with date)
Department of Mechanical Engineering,

Monamad Sathak Engineering College, Kilakaral - 623 806. Registrar/Director/Principal

nerrom

(Signature and Seal with date)

MOHAMED SATHAK ENGINEERING COLLEGE KILAKARAI - 623 806.

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### ANNEXURE - IX

### AUDITED UTILISATION CERTIFICATE

Certified that out of MODERNIZATION OF ADVANCED IC ENGINE LAB of Grant- in - aid 9-79/RIFD/MOD/Policy-1/2018-19 during sanctioned 2018-19 Letter No. year utilized Rs.15,98,400/= has for the purpose Date:02.12.2019, the Amount been for which it was sanctioned and the balance of Rs. NIL remaining unutilized at the end of the year has been surrendered to All India Council For Technical Education (vide No. NIL dated NIL)/ will be adjusted towards the Grants – in – aid payable during the next year i.e.,2019-20 as per the details attached.

Certified that the grant has been utilized as per laid down terms and conditions for which it was sanctioned.

Finance Officer

CHIÉFEACCOUNTS OFFICIER ate)
Mohamed Sathoit Engineering College
Kilakarai-623 806,
Ramanathapuram District.

Nessens

Registrar/Principal/Director

(Signatur Panti Scal With Idate)
MOHAMED SATHAM ENGINEERING COLLEGE
KILAKARAI - 623 806.

Chartered Accountant

(Signature and Seal with date)

A. RAJAMANICKAM, M.SONL,FICA, ML.

"AEREOM NIVAS"

18/39, KADER PALLIVASAL STREET. RAMANATHAPURAM-623 501.

Phone: 9443684857
E.mail ID: armtaxadvocate@gmail.com

### ANNEXURE -X

# FORMAT FOR GENERAL FINANCIAL RULES

### (FORM GFR- 19)

# Assets acquired wholly or substantially out of government grants Register maintained by grantee institution

# **Block Account Maintained by Sanctioning Authorities**

Name of Sanctioning Authority : RFID-AICTE, NEW DELHI

1. Serial No. : 9-79/RIFD/MOD/Policy-1/2018-19

2. Name of grantee Institution : MOHAMED SATHAK ENGINEERING COLLEGE

KILAKARAI-623 806.

RAMANATHAPURAM DISTRICT.

TAMIL NADU, INDIA.

3. No. and date of sanction : 9-79/RIFD/MOD/Policy-1/2018-19 dated 02.12.2019

4. Amount of the sanctioned grant : Rs.19,98,000/-

5. Brief purpose of the grant : To remove the obsolete equipments

available in the Advanced IC Engine lab and equip the lab with latest equipments and instruments as per the need of the revised and advanced syllabus to execute

the practical experiments prescribed.

 Whether any condition regarding the right of ownership of Government in the property or other assets acquired out of the grant was incorporated in

out of the grant was incorporated in the grant-in-aid sanction

: NO

7. Particulars of assets actually credited

or acquired

: ENCLOSED

8. Value of the assets as on 15.11.2021 : Rs.17,69,865.48

9. Purpose for which utilized at present : All the Equipments purchased under MODROBS are

installed in Advanced IC Engine lab to carry out all

basic experiments as per latest revised curriculum

10. Encumbered or not : NO

11. Reasons if encumbered :----

12. Disposed of or not : NOT DISPOSED

13. Reasons and authority, if any,

for disposal : NA

14. Amount realized on disposal

: NA

15. Remarks

: NIL

# PARTICULARS OF ASSETS ACTUALLY CREDITED OR ACQUIRED

S.No	Particulars of the Equipment Procured	Quantity	TOTAL
1	Computerized Four Stroke Single Cylinder Automotive CRDI Diesel Engine with Open ECU	1	1
2	Determination of Viscosity, Calorific Value & Cetane Value of Solid / Liquid Bomb Calorimeter, Cloud and Pour Point Apparatus along with working table	1	1
3	Auto Exhaust and Fluid Gas Analyzer & Diesel Smoke Meter (Combined Unit)	1	1

Dr. M. RAJESHWARAN, ME, MIE, Ph.D.,
(Signatur@rofdsSoal with date)
Department of Mechanical Engineering,
Mohamed Sathak Engineering College,
Kitakarai - 623 806.

Registrar/Director/Principal

(Signature and Seal with date)

PRINCIPAL

# Medhaavi Center for Automotive Research

An ISO 9001:2008 Organization

www.madhasv.com



### Tax Invoice - Original for Buyer

Mohamed Sathak Engineering College,	INVOICE# G18090
Ramanathapuram – 623 806, Tamil Nadu, India	Dated: 13.10.2020

Customer GSTIN: Unregistered

Kind Attn.: The Principal

Your Ref.P O. Ref. No. NIL Dt 28 08 2020

Description	Price	Qty.	Amount(Rs.		
Computerized Four Stroke Single Cylinder     Automotive CRDI Diesel Engine with Open ECU	10 60 000 00	1 No	10 60 000 00		
<ol> <li>Determination of Viscosity, Calorific Value &amp; Cetane Value of Solid / Liquid Bomb Calonmeter, Cloud and Pour Point Apparatus along with working table</li> </ol>	90 886 00	1 No	90 886 00		
3. Auto Exhaust and Fluid Gas Analyzer	2,29,000.00	1 No.	2,29,000.00		
4. Diesel Smoke Meter	1,20,000.00	1 No.	1,20,000.00		
HSN Code: 9023					
T	otal Taxable		14.99,886.00		

Current A/C No. 023605500034 ICICI Bank, Sutheri Road, Hoshiarpur IFSC Code: ICIC0000236 FOR MEDHAAVI CENTER FOR AUTOMOTIVE RESEARCH

(Authorized Signalory)

ATTESTEL

MOHAMED GATURE AT MILANARA

MCAR Technical Center India (MTCI). Village.Korangna, Jalandhar Road. Hoshiarpur (Pb.),INDIA - 146001
Regd. Office: Last Street, Bansi Nagar, Opp. Railway Station, Hoshiarpur (Pb.),INDIA - 146001
support@medhaavi.com (O) +91-1882-245970 (M) +91-98887-13285. +91-99882-13285

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# Government of India e-Way Bill



1. E-WAY BILL Details

eWay Bill No: 3712 4492 8374

Generated Date:14/10/2020 01:31 PM

Generated By: 03ALY PK612 8Q1ZA Valid Upto: 16/11/2020

Mode: Road

Approx Distance: 3300km

Type: Outward - Supply

Document Details: Tax Invoice - G18090 - 13/10/2020

Transaction type: Regular

2. Address Details

From

GSTIN: 03ALY PK612 8Q1ZA MIS MEDHAAVI CENTER FOR AUTOMOTIVE RESEARCH PUNJAB

:. Dispatch From :: PROP, M/S MEDHAAVI CENTER FOR NEAR SHIV MANDIRBANSI NAGAR Hoshiarpur,PUNJAB-146001 To

GSTIN : URP Mohamed Sartiek Engineering College TAMIL NADU

:: Ship To :: Ramanathapuram

Ramanathapuram,TAM/L NADU-623806

3. Goods Details

HSN Code	Product Name & Desc.	Quantity	Taxable Amount Rs.	Tax Rate (C+S+I+Cess+Cess Non,Advo
9023	Computerized Four Stroke Single Cylinder Enigne & Engine Open ECU CA System Wiring Panel	1.00 Nos	1060000.00	NE+NE+18.000+0.000+0.0
9023	Viscometer Bomb Calorimeter Cloud and Pour & Viscometer Bom Calorimeter Cloud and Pour	1.00 Nos	90886.00	NE+NE+18.000+0.000+0.0
9023	Auto Exhaust and Fluid Gas Analyser & 5Gas Analyser	1.00 Nos	229000.00	NE+NE+18.000+0.000+0.0
9023	Diesel Smoke Meter & Combined with 5 Gas	1.00 Nos	120000.00	NE+NE+18.000+0.000+0.0

Tot. Tax'ble Amt ₹ 1499886.00

CGST Amt ₹ 0.00

SGST Amt ₹ 0.00

IGST Amt ₹269979.48 CESS Amt ₹0.00

CESS Non.Advol Amt ₹0.00

Other Amt ₹0.00

Total Inv.Amt ₹ 1769865.48

4. Transportation Details

sporter ID & Name: 06AADCT0663J4Z9 & TCIEXPRESS

Transporter Doc. No & Date: & 14/10/2020

5. Vehicle Details

Mode	Vehicle / Trans Doc No & Dt.	From	Entered Date	Entered By	CEWB No. (If any)	Multi Veh Info (If any)
Road	PB074353	Hoshiarpur	14/10/2020 01:31 PM	03ALYPK6128Q1ZA		



ATTESTED

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# DEPARTMENT OF MECHANICAL ENGINEERING MOHAMED SATHAK ENGINEERING COLLEGE KILAKARAI - 623 806

# STOCK REGISTER



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Invoice No: 2247

Dated: 20-Feb-2020

Ref.No: MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI

DEEN ELECTRICAL - (From 01-Apr-2019) 12 - C GOVT HOSPITAL ROAD RAMANATHAPURAM 9487488113,9443238113, GSTIN/UIN: 33AHUPN4573C1Z5 E-Mail: deenglasshouse@gamil.com

## INVOICE

Party: The Principal, MSEC, Kilakarai

SI.	Description of Goods	Quantity	Rate	per	Disc. %	Amount
No 1 2 3 5 6 7 9 10 12 13	MICA ASIS 0.8 MM FEVICOL SH 5 KG PLY WOOD 19MM PRESTIGE W.P 8X4 DOOR ( TEAK WOOD) WITH SHUTTER HAND WINDOW ( TEAK WOOD) WITH SHUTTER AND DOOR & WINDOW HANDLES,HINGES,KNOBS TEAK WOOD FRAME TEAK WOOD SHUTTER SCREW & NAILS METAL DOOR LOCK	31 NOS 4 NOS 21 NOS 2 NO 19 NOS 24 NOS 41NOS 24 NOS 100 NOS 3 NOS	960.00 850.00 1700.00 85.00 1510.00 1050.00 390.00 390.00 16.00 1800.00	NOS NOS NOS NOS NOS SQ.FT SQ.FT NOS NOS	15.25% 15.25% 15.25% 15.25% 15.25% 15.25% 15.25% 15.25% 15.25%	29760.00 3400.00 35700.00 10050.00 28690.00 25200.00 15990.00 9360.00 1600.00 5400.00
	CGST SGST ROUNDED OFF					10210.50 10210.50 -01.00
_	Total					185570.00

Amount (Chargeable in Words)

Indian Rupees One Lakh Thirty Three Thousand Nine Hundred and Seventy only.

User Name: RAJAN, Time: 10:41

For DEEN ELECTRICAL -

This is Computer Generated Bill

ATTESTEL



Invoice No: 3057

Dated: 22-Feb-2020

ASIAN BUILDING MATERIALS 13/A1, GH ROAD, CHALAI BAZAR RAMANATHAPURAM - 623501 GSTIN/UIN: 33AAVPZ9368D1ZT

State Name: Tamil Nadu, Code: 43 E-Mail: admin@asianbuildingmaterials.co.in

Name of the PRINCIPA KILAKARA	L, MSEC,						CASH BILL to : MCS-1561 tt: 22-02-2020
S.No.	Particulars	HSN	GST%	Qty	Rate	Disc.	Amount
1	RCC Bed (1:2:4) construction	n 1246	18	1	18644.00		18644.00
	cost						18644.00
		Total		1			18,644.00
NR Forty Fi	ve Thousand Five Hundred and						E. & O.E.
GST Rate	Ass. Value	CGST Amt		SGST Amt 1422.00	IGS	T Amt	

15800.00

18%

For Asian Building Materials

Authorized Signature

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Invoice No: 2997

Dated: 16-Feb-2020

ASIAN BUILDING MATERIALS 13/A1, GH ROAD, CHALAI BAZAR RAMANATHAPURAM - 623501 GSTIN/UIN: 33AAVPZ9368D1ZT

State Name: Tamil Nadu, Code: 43
E-Mail: admin@asianbuildingmaterials.co.in

Name of	f the Buyer	2310112				Bill No	CASH BILL : MCS-1561 : 16-02-2020
PRINCIF KILAKA	PAL, MSEC,	HSN	GST%	Qty	Rate	Disc.	Amount
S.No.	Particulars	3925	18	1	8,900.00		8,900.00
1	Aqua Tec Tank 1000-31w - Tank	8539	12	1	4,300.00		4,300.00
2	V-GUARD MONO BLOC1/2 HP VC-H45	0000					13,200.00
10770		Total	A)	2			13,200.00 E. & O.E.
	Thousand and Two Hundred only						<b>L</b> . <b>G G</b> .

INR Thirteen Thousand and Two Hundred only

 GST Rate
 Ass. Value
 CGST Amt
 SGST Amt

 12%
 3,839.29
 230.36
 230.36

 18%
 7542.37
 678.81
 678.81

IGST Amt

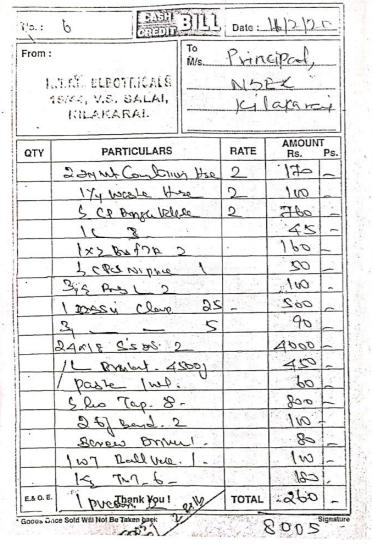
For Asian Building Materials

Authorized Signature



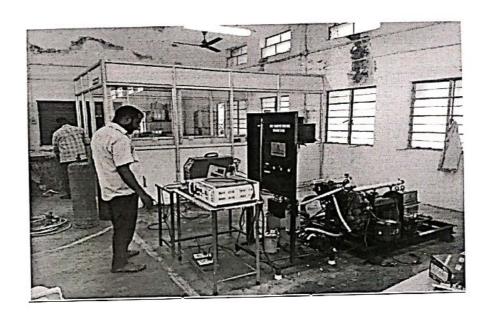
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MOHAMED SATHAK ENGINEERING CULLEGE MILAKARAI - 623 806.



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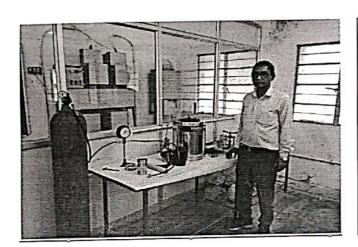
# Computerized Four Stroke Single Cylinder Automotive CRDI Diesel Engine with Open ECU





# ATTESTED

# <u>Determination of Viscosity, Calorific Value & Cetane Value of Solid / Liquid Bomb</u> <u>Calorimeter, Cloud and Pour Point Apparatus along with working table</u>





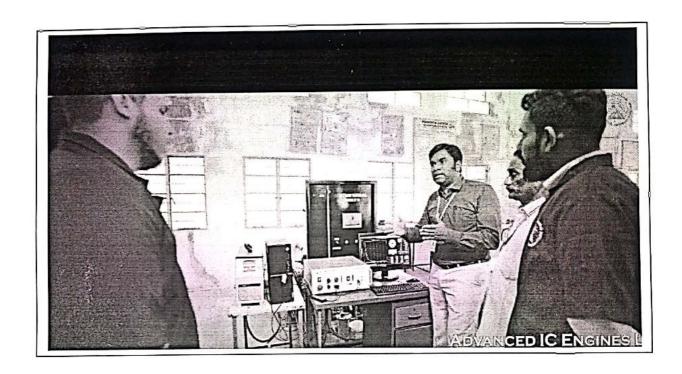




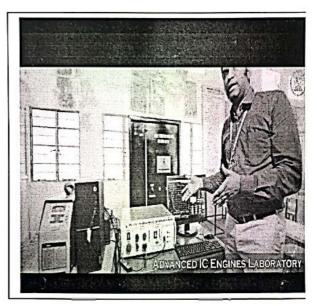
# ATTESTED

rermi

# Auto Exhaust and Fluid Gas Analyzer & Diesel Smoke Meter (Combined Unit)







# ATTESTED

rezzni