

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

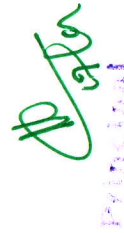
Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: spp@kscst.iisc.ernet.in || Phone: 080-23600978

LIST OF BIOFUEL PROJECTS SANCTIONED UNDER 42nd SERIES OF STUDENT PROJECT PROGRAMME: 2018-2019

Sanctioned Under Stream C

23. P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	TOTAL (in Rs.)
1.	42S_B_BE_019	BIO -CNG PRODUCTION , BOTTLING AND UTILIZATION FOR CI ENGINE	MECHANICAL ENGINEERING	BE	Dr. BASAVARAJAPPA YH	Mr. SWAROOP N	6000.00



Professor & Head
Dept. of Mechanical Engg.
PES Institute of Technology & Management
NH-206, Sagar Road, SHIVAMOGGA-577 204.

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Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: biofuelcell.kscst@gmail.com || Phone: 080-23600978

STUDENT PROJECTS PROGRAMME (BIOFUEL/BIOENERGY PROJECTS): 42nd SERIES – STATE LEVEL SEMINAR AND EXHIBITION

List of Biofuel/Bioenergy Projects Selected for State Level Seminar and Exhibition (S&E) to be held at
K.L.E. Dr. M.S. Sheshgiri College of Engineering and Technology, Udyambag, Belagavi on 26th and 27th July 2019

18. P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	NAME OF THE GUIDE	NAME OF THE CO-GUIDE	NAME OF THE TEAM LEADER	NAME OF THE STUDENT 2	NAME OF THE STUDENT 3	NAME OF THE STUDENT 4	SEMINAR OR EXHIBITION
21.	42S_B_BE_019	BIO -CNG PRODUCTION , BOTTLING AND UTILIZATION FOR CIENGINE	MECHANICAL ENGINEERIN G	Dr. BASAVARAJA PPA Y H	-	Mr. SWAROO P N	Mr. DILIP KUMAR B N	Mr. VIJAY T V	Mr. DARSHAN B M	SEMINAR

Note:

- You are requested to send the hard bound copy of the project report along with softcopy of the full report in a CD in PDF format.
- Any correction with respect to Guide and students name, kindly send an email regarding the same to biofuelcell.kscst@gmail.com

Professor & Head
Dept. of Mechanical Engg.
PES Institute of Technology & Management



Principal
PES Institute of Technology & Management

39, Sagar Road, SHIVAMOGGA, 577 301

KSCST: 42nd Series of Student Project Programme Biofuel / Bioenergy Projects (SPP2018) Belagavi, Shivamogga, Chitradurga - 2018 - 19

further research work.

BIO -CNG PRODUCTION, BOTTLING AND UTILIZATION FOR CI ENGINE

Project Reference No.: 42S_B_BE_019

College : P.E.S. Institute Of Technology And Management, Shivamogga
Branch : Department Of Mechanical Engineering
Guide : Dr. Basavarajappa Y H
Students: Mr. Swaroop N
 Mr. Dilip Kumar B N
 Mr. Vijay T V
 Mr. Darshan B M

Introduction:

This project is focusing on the investigations and studies on emissions of applying the Bio-CNG in the Diesel engines. As well as, the project is also highlighting studies that involves in the search for alternative fuels to be used for less emissions and good performance vehicles. As observed, many researches indicate that there is a significant decreasing in emissions in the existence CNG-Diesel and other alternative fuels when comparing with the conventional pure diesel heavy duty vehicles engines.

As we know that fossil fuels which are widely used in Automotive are at the verge extinction. Their usage also has impact on human being and also on environment. The project aims to operate the conventional diesel engines with gaseous ecofriendly and renewable fuels in dual fuel mode. In this project work a diesel, biogas and Bio-CNG were used as a fuels. CI engine was modified to run in dual fuel mode. Engine performance in terms of brake thermal efficiency, smoke emission, HC emission, CO emission and NOx emissions were analyzed with different combinations of fuel like Diesel+Biogas, Diesel+Bio-CNG.


Objectives

- Production of Biogas.
- Measurement of Biogas.

KSCST: SPP – 42nd Series: Biofuel Projects Compendium: 2018-19



Principal
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PES Institute of Technology & Management
NH-206, Sagar Road, SHIVAMOGGA-577 204.



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Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Website: www.kscst.org.in

Certificate

This is to certify that **Mr. SWAROOP N, Mr. DILIP KUMAR B N, Mr. VIJAY T V and Mr. DARSHAN B M** students of **P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA** participated in the Student Project Programme (SPP) - Biofuel / Bioenergy Projects during the year 2018 - 2019 (42nd Series) and completed the project entitled **BIO -CNG PRODUCTION , BOTTLING AND UTILIZATION FOR CI ENGINE**

under the guidance of **Dr. BASAVARAJAPPA Y H**

This project was adjudged as "Best Project of the Year" during the Seminar and Exhibition held at KLE Society's Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi on 26th and 27th July 2019. This project was supported by Karnataka State Bioenergy Development Board, Government of Karnataka.

S. Subramanian
Prof. S. Subramanian
Secretary, KSCST

Anurag Kumar
Prof. Anurag Kumar
Director, Indian Institute of Science and
Vice-President, KSCST

[Signature]
Principal

Professor & Head, Department of Mechanical Engineering
PES Institute of Technology & Management
206, Sagar Road, SHIVAMOGGA-577 204.



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Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348840, 23348940 ♦ Website: www.kscst.org.in

Certificate

This is to certify that **Dr. BASAVARAJAPPA Y H** member of the faculty of **P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA** participated in the Student Project Programme (SPP) - Biofuel / Bioenergy Projects during the year 2018 - 2019 (42nd Series). He / She was the advisor to the group of students who completed the project entitled **BIO -CNG PRODUCTION , BOTTLING AND UTILIZATION FOR CI ENGINE**

This project was adjudged as "Best Project of the Year" during the Seminar and Exhibition held at KLE Society's Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi on 26th and 27th July 2019. This project was supported by Karnataka State Bioenergy Development Board, Government of Karnataka.

S. Subramanian
Prof. S. Subramanian
Secretary, KSCST

Anurag Kumar
Prof. Anurag Kumar
Director, Indian Institute of Science and
Vice-President, KSCST

Principal
Principal

Prof. S. S. Srinivasan
Prof. S. S. Srinivasan
Institute of Technology & Management
Shivamogga

Prof. S. S. Srinivasan
Institute of Technology & Management
Shivamogga