#### NATIONAL CHILDREN'S SCIENCE CONGRESS-2019 (FORM-A) Registration Child Scientist : Submission - #8548

Select State & Districts / KVS,NVS & Regions Category Kendriya Vidyalaya Sangathan

State/KVS-NVS (Regions) Ernakulam

Block/Tehsil: KALPETTA

Area: Urban

Language Used : English

Project Title : CARBON COMPOUNDS , THE NEW LIFE

Sub-Theme: Waste to Wealth

SAVER

Details of School / Institute / Organisation

Type of School : Govt./Aided School

Name: KENDRIYA VIDYALAYA KALPETTA

Name of the Head of the School/Institute/Organisation : Mr.G. SASIKUMAR

Email: principalkvmkalpetta@gmail.com

Phone No.: 04936298400

Office Address : KENDRIYA VIDYALAYA KALPETTA, PINANGODE ROAD, NEAR WAREHOUSE

JUNCTION, KALPETTA, KERALA, 673121 PINANGODE ROAD WAREHOUSE JUNCTION,

KALPETTA 673121 KALPETTA

Details of Group Leader

Name: SANAND G DEV

DOB: 04/29/2003

Age: 16

Gender Male Mobile No. : 9446367552

E-mail ID: sanandgdev@gmail.com

Whether Child with Disability (CWD): No

If Yes then type:

Details of Co-worker

Name: SHIMRON ALAKKAL

Gender: Male

Date of Birth: 04/18/2003

Age: 16

Whether Child with Disability (CWD): No

If Yes then type:

Details of Guide Teacher

Name: Mrs SUSMITHA MARY ROBBINS

Designation : PGT PHYSICS

Phone No.:

E-mail ID:

9495528585

ssmth.robbins@gmail.com

Name of Institute: KENDRIYA VIDYALAYA KALPETTA

Address of Guide Teacher: XX/420 (1) K G NAGAR K G NAGAR, NEAR WARHOUSE

JUNCTION, KALPETTA, 673121 KALPETTA

Alia sun 17/9/19

Seal and Sign of the Head of the G. SASIKUMAR

School/Institute/Organisation / Principal

Seal and Sign of the **District Coordinator** 

-Take 2 (two) Print-out of this form and get them signed by the Head of your School / Inst./ Org.

Paste one copy of the form with your Project Report. Submit the second copy of the form to the District Coordinator. A mail of acceptance or rejection will

be sent to your e-mail ID.



### 27 NATIONAL CHILDREN'S SCIENCE

### CONG RESS 2019 - 20

STATE : KVS CATEGORY : UPPER

LANGUAGE : ENGLISH AREA : URBAN

STATE CODE :

TITLE : CARBON COMPOUNDS : A NEW LIFE

#### SAVER

GROUP LEADER : SANAND & DEV

GROUP MEMBER: SHIMRON ALAKKAL

SCHOOL : KENDRIYA VIDYALAYA , KALPETTA

ADDRESS : NEAR WAREHOUSE JUNCTION , PINANGODE ROAD

KALPETTA, WAYANAD

DISTRICT : WAYANAD STATE : KERALA PINCODE : 673121

EMAIL: principal kum kalpetta @ gmail.com CONTACT: 04936-29840

#### ABSTRACT

To convert a waste to wealth is considered as a highly relivant and applicable marvel in the human development and social domains across the world.

27 NATIONAL CHILDREN'S SCIENCE CONGRESS 2019-20

FOCAL-THEME:

SCIENCE, TECHNOLOGY & INNOVATION FOR A CLEAN, GREEN & HEALTHY NATION SUB-THEME

WASTE TO WEALTH

TOPIC

CARBON COMPOUNDS : A NEW LIFE SAVER

TALUK GROUP MEMBERS

SANAND G DEV K V KALPETTA

SHIMRON ALAKKAL

DISTRICT **ERNAKULAM REGION** GUIDE TEACHER STATE

Mrs. SUSMITHA MARY K V S

ROBBINS

The world today is undergoing great challenges as a result of our activities, mainly rollution.

And carbon compounds turn out to be a deadly pollutant which is being emitted at a tremendous nate and can rause great destruction in the near future.

An attempt has been made in this project to reduce the emission of CO2 - CO - HC with the tulp of an ioniser [Exhaust Bond Breaker] using electricity we concentrated on studying situations, problems and their consequences persisting in wayanad. Hence, the main aim of our study is:

carbon and oxygen using an electric ioniser or else called EBB and using the separated carbon to generate wealth.

experimentation. Survey, discussions and interviews were done with environt personalities like Environmental engineers, mechanics etc.

d comparitive study was done with respect to whan and hural areas of the district. In attempt was also made to prepare and design EBB.

The obtained carbon could then be put to use for generating wealth and the main applications among them are: graphite, lead, interest, glass component and even diamond under special circumstances thus, the economic benefits of this project would definitely contribute to the welfers of society and beyond.

this noval idea can be used to beat pollution, neduce stress on life, meet the economies of the producer and more.

# HYPOTHESIS

Joday, many initiatives are being taken by the government and non-government organisations to reduce the emission of greenhouse gases to the environment and atmosphere. Yet much of a positive nesult is not achieved so, we are planning to conduct a detailed analysis of the benefits of carbon consider mainly in automobiles and industries. This would result is the separation carbon and oxygen, and hydrogen at a very low nate from the exhaust. This carbon, obtained, coould then be converted to graphite and carbon used in ink out of which graphite could then be converted to lead Thus, we intent to generate a deadly waste into a valuable wealth and ultimately control and reduce pollution.

# OBJECTIVES

To reduce the amount of carbon in the atmosphere hence reducing the emission of green house gases, increasing the amount of ozone protecting the earth, increasing the nate of production of breatheable oxygen and many more.

To convert the carbon into a valuable wealth's graphite, lead, soldering lead, welding fiel's component, ink content, glass and tumbler content, milber component etc.

to ultimately beat pollution and ozone layer depletion and hence making the world a better place to live in.

## METHODOLOGY

Our project deals with conversion of a waste to wealth in carbon compounds into valuable products after their ionisation with the aim to beat pollution.

The main methodology used in our project is survey and experimentation. First and foremost, we met assistant Engineer (Environmental enginer) of the kenala state Pollution control Board (KSPCB) and asked them about the variation in weather and climatic conditions due to pollution they provided us with information on the amount of breathealthe gases in dust along with the composition of so2 and NO2 in the kalpetta and Bathery region.

Hary people are unaware of the impact of co and

Next stage in our project was visit to different pollution testing centres and gather

information about the present rate of co emission and standard values.

we prepared questionnaire and payed (visit to the Heinangadi Parchayat for having earned a nare distinction of being the first carbon reutral nare distinction of being the first carbon reutral city in the country. This visit and interview with city in the country. This visit and interview with the President of the Parchayat, Mrs. Beena Vyayan the President of the Parchayat, the ways to treat gave is additional facts about the ways to treat grun house gases. All these informations were totally different from our ideas with nespect to automobiles and industries.

an addition to the, there was an interview with mechanics werking in automobile service centres.

The main intention of this interview was to design

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The main intention of the most apt,

proof ble and convenient manner.

experimentation was carried but on a small -scale by the group member shirtson allakhal to confirmation.

## RESULT

From the detailed analysis of data obtainsd. we found that the level of green houses gasts can be reduced to a large extent.

Forsil fuels could be used without emitting any green house gases, from both weblicles and inclustries. The ozone layer could start retaining its last parts and people, including other truing beings could breaths fresh and pare air. The type-oduct of even fossil fuel angines anhaust would just be breathable oxygen and water vapour.

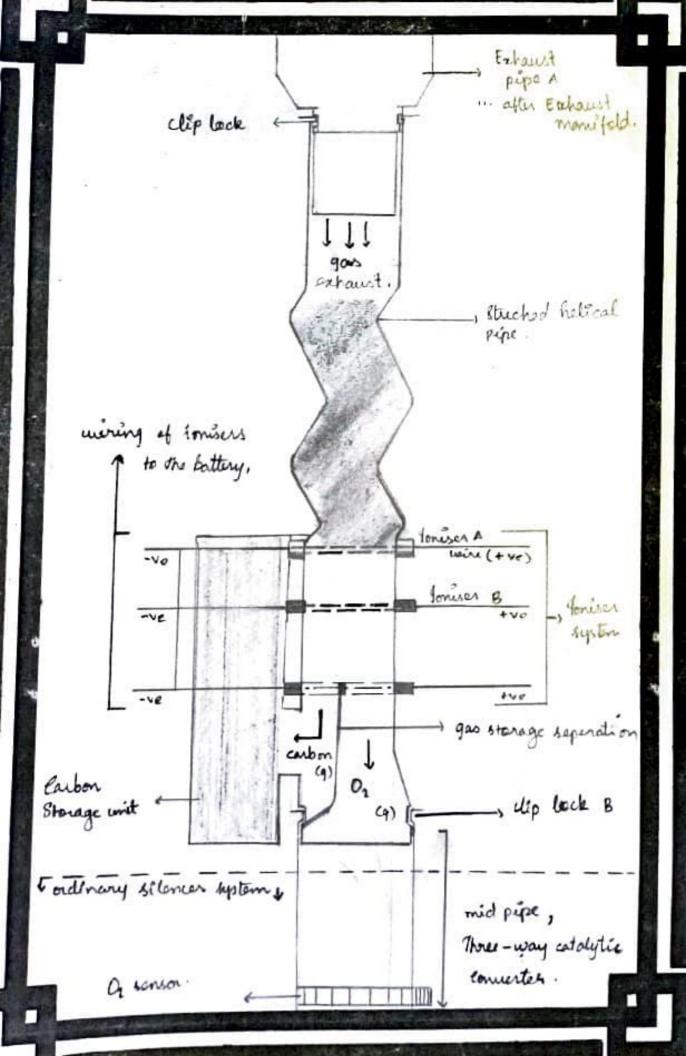
This level of pollutionlessness could be accomplished using, what we call, the EBB or the ERHAUST BOND BREAKER.

This is our step forward to change the world as a whale for a pollution - free environment.

# CONCLUSION

From the detailed analysis of data and results, we conclude that:

- compaineds is one of the test alternatives , till date, to best pollution.
- e larbon compounds, which is considered as a waste-and dangerous among wester could be used to build wealth as well as reduce pollution.
- · Application of EBB and like machines could reduce ozone layer depletion, heat in or temperature rise in muironment, increase breathable oxygen content in air and many more.



## SOLUTION

Pollution is nothing but the resources we are not harvesting. We allow them to disperse because we've been ignorant of their value.

Conversion of cubon-oxygen pollutant, using, machines like EBB, we become part of solution and not a part of pollution.

ENVIRONMENTAL POLLUTION IS AN INCURABLE DISEASE. IT CAN ONLY BE PREVENTED