

KUMARI ARIVIAL PERAVAI  
YOUNG SCIENTISTS PROGRAMME 2011-2012  
**ENERGY&ENVIRONMENTAL CHALLENGES**  
**RED TEAM**

**RESEARCH TOPIC- Nuclear Energy**

Science of Nuclear energy  
How Nuclear Power works  
Why we are Preferring Nuclear Energy  
India's stand on Nuclear energy-nuclear power reactors in India-123 Agreements  
India's Investment in Nuclear Power  
Environmental effects of Nuclear Energy  
Radioactive Waste and its effects to Environment  
    Environmental Challenges in Disposing the Radioactive waste  
    Environmental challenges and Safety  
    Thermal pollution due to Cooling Water System  
Risks and Dangers of Nuclear Energy  
Major Disasters  
Future of Nuclear Power  
*Life without nuclear energy*

<b>DRESS CODE</b>	
FULL TROUSER	: BLACK
HALF HAND SHIRT	: RED
CAP	: RED
SHOES/CANVASS	: BLACK

1.J Nikhil Justus	9442303758	<b>Excel Central School, Thiruvattar</b>
2.J Akshaya	7598527920	<b>Belfield Matric HSS,Asaripallam</b>
3.E S Benin	9443909629	<b>Mother Theresa Matric H SS, Mylancode</b>
4.A Subramanian	9443118028	<b>SNM Hindu Vidyalaya, Krishnan Kovil</b>
5.J A Jinish	9486855845	<b>Friends Matric. School, Panamkalai</b>
6.S U Daevu	04651-286226	<b>Christhuraja Matriculation,Marthandam</b>
7.T Suchitan Vajpayee	9486057499	<b>Vivekanda Kendra Matric H.S.S,Kanyakumari</b>
8.Anantha Leksmi .S	9790682127	<b>Sree Vivekananda Matric. H.S.S Kootumangalam</b>
9.M N Nikeela Farhana	9486324990	<b>Excel Central School, Thiruvattar</b>
10.P Miriam Senega	9600586769	<b>St.Annes Matric School,Colachel</b>
11.S.Aswin	9655169925	<b>Hindu Vidyalaya Matric.H.S.S.Marthandam</b>

Team Coordinator : Shri.L.Edwin Sam (Social Scientist) **9443486850**

**Scientist : Er.S.Ingersol 9442366461**  
(Div.Head, ISRO Mahendragiri)

**Consultant :Dr.T.Sasikumar 9443220080**  
(Principal, Lord Jaganath College Of Engineering)

**Doctor : Dr.Sugin Herbert 9443462137**  
(Medical officer Govt. Health Centre )

Resource Person : Mrs.D.STELLA 9865285474

GUIDE: Mrs. T.SANTHI  
Hindu Vidyalaya Matric.H.S.S Marthandam



**We are happy to inform you that the above students are selected for the Young scientists Programme 2011-2012**

Thank you

Organiser :Mullanchery M.VELAIAN,  
Mulamkuzhi-P.O,

Phone 9942758333, 04651-271175,

E-Mail:Velaianmuthaian@yahoo.co.in, mullanchery@gmail.com

Note:

1.The first team meet for the Students, Guides and Co ordinators will be held on 23-10-2011(Sunday) at Hindu Vidyalaya Matriculation School, Marthandam between 2.00 P.M to 4.00 P.M

2.Scientific Awareness Camp will be held on 12<sup>th</sup> To 13<sup>th</sup> November 2011 at Lord Jeganath College of Engineering, Ramanathichamputhoor

\*For further details contact organizer

KUMARI ARIVIAL PERAVAI  
YOUNG SCIENTISTS PROGRAMME 2011-2012  
ENERGY&ENVIRONMENTAL CHALLENGES  
GREEN TEAM

**RESEARCH TOPIC : Other Renewable energy**

- a. Renewable Energy
- b. Sustainable Energy Alternatives
- c. Hydrogen technologies
- d. Fuel cells
- e. Biomass and bio energy
- f. Wave, Tidal, or Ocean Energy
- g. Hydropower
- h. Geothermal Energy
- i. Is it worth investing in Renewable energy?
- j. Environmental Challenges of Renewable energy

**DRESS CODE**  
FULL TROUSER : BLACK  
HALF HAND SHIRT : GREEN  
CAP : GREEN  
SHOES/CANVASS : BLACK

1.S .Allen David	9 442077750	Excel Central School, Thiruvattar
2.R.Ranjini	9443170669	Sree Vivekananda Matric.H.SS.Kootumangalam
3.J Darathy John	9448449691	Mother Theresa HSS Mylancode
4.L Antony Vishal	9442564256	St.Judes Middle School,Asaripallam
5.J S Sreelakshmi	236675	Friends Matric School, Panamkalai
6.J Jackulin Shiji	8300141589	St.Franchis HSS, Vencode
7.M K Adharshni	994488283329	NM Vidya Kendra ,Chitharal
8.A S SivaPrasad	9444698900	NVKS HSS ,Attoor
9.V L Anushia	9488278278	Holy Angel's Matric HSS ,Chentharai
10.Kaushil.V	9487187479	Global School,Thiruvattar

GUIDE : MS.V.Edal Pramila 7708172680 ( Holy Angels Matric.School Chentharai)

Team Coordinator : Smt.C.SUBATHRA 9790227808

**Scientist : Er.P.Palvannan 9486134495**

(Dy.General Manager, ISRO Mahendragiri)

**Consultant : Dr.T.James Wilson 9443370072**

(Vice Chairman, Martandam College of Engineering)

**Doctor : Dr.P.Thiraviam 9443693225**

(Medical Officer, LPSC/ISRO Mahendragiri)

Resource person :Shri.D.SAMRAJ (H.M)9443608215



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YOUNG SCIENTISTS PROGRAMME 2010-2011  
ENERGY&ENVIRONMENTAL CHALLENGES  
MAROON TEAM

**RESEARCH TOPIC : Oil and Natural gas**

How oil and Natural gas are formed

Oil

Oil Well Drilling, Oil Storage, Oil Spills, Oil rig on fire, Oil Shale

Natural gas

Natural Gas Production, Transmission, and Distribution

Natural Gas Supply and Demand

Availability & utilisation of natural gas in India

Import of natural gas to India through gas pipelines

India's agreement on oil and petroleum products with other countries

Oil and Natural gas products to energy

Statistics about world usage of Oil and Natural gas

Environmental challenges, Atmospheric impact. Aquatic impact, Terrestrial impacts

Ground water Pollution due to Natural Gas

**DRESS CODE**

FULL TROUSER : BLACK  
HALF HAND SHIRT : MAROON  
CAP : MAROON  
SHOES/CANVASS : BLACK

1. Arun V .Anand	9790521106	N M Vidhya Kendra Chitharal
2. C S Ashika	9488111888	Christuraja Matric HSS Marthandam
3. M S Mahima Panicker	9364388886	N V K S HSS, Attoor
4. R Jereesh	9442948443	Holy Angel's Matric HSS Chentharai
5. K Sivanuja	9943650423	St. Ursula's Girls High school, Kulasekharam
6. A M Ashmila	9443445124	Belfield Matriculation H.S.S , Asaripallam
7. S Pavithra	9789120875	Excel Central School, Thiruvattar
8. S. Surjithsingh	9684508461	G M S, Kadamankuzhi
9. C V Ashish Milin	9487250449	Global School, Thiruvattar
10. R R Adharsh	9488427580	PPM HSS, Anduicode
11. N J Dhanishma	9486677446	Vivekananda Matric HSS, Vaikundapuram

GUIDE: Mrs. S.SUMITHA 9786564304

Vivekananda Matric.Hr.Sec.School Vaikundapuram

ID CARD

Team Coordinator	: Shri.M.John Rabikumar	9489826220
Scientist	: Er.L.MUTHU	09495628881
(Dy. Director ISRO Valiyamala Rtd)		
Resource person	: Shri.D.Rajendran	9442251344
(All India Radio, Nagercoil)		
Doctor	: Dr.K.Vijayakumar	9443161102
(Past National Vice President, Indian Medical Association)		
Consultant	: Capt.P.Bennet Singh	9442270512
(Pilot Tuticorin Shipping Corporation, Govt. of India)		



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KUMARI ARIVIAL PERAVAI  
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ENERGY&ENVIRONMENTAL CHALLENGES  
**YELLOW TEAM**

**RESEARCH TOPIC - Solar Energy and Wind Energy**

Science of Solar Energy

Why Solar Power?

Solar Panels

Advantages and Disadvantages of Solar Power

Science of Wind energy

Wind Energy and Wind Power

Wind Turbines

Wind Energy Resources in the India and particularly in Kanyakumari

Advantages and Disadvantages of Wind-Generated Electricity

Environmental effects of Solar Energy and Wind Energy

**DRESS CODE**

FULL TROUSER : BLACK  
HALF HAND SHIRT : YELLOW  
CAP : YELLOW  
SHOES/CANVASS : BLACK

1.Ashwandh .S	9442301119	Global School, Thiruvattar
2.D J Delton Dhanish	9488336883	GMS Kadamankuzhi
3.D J Defflin Raja	9487311247	Pioneer School,Nagercoil
4.S Subitha	9443852214	St.Ursula's girls High School, Kulasekharam
5.Evanjalin .S	9865285474	Global school Thiruvattar
6.A. Alentina Esther	8056730989	Belfield Matriculation H.S.S , Asaripallam
7.C. B .Annie Angel	9443994467	N M Vidya Kendra ,Chitharal
8.J.J.Bhuvaneash	9443158159	Amsi High School,Amsi
9.Christinfo S Josiah Singh	9976928395	Munchirai Punitha Arockiya Matha Matric School,
10.G Mary Sumi	9952729670	St.Mary Goretty HSS, Manalikai
11.A Varsha	9443495365	Victory Matric HSS,Mylode

ID CARD

Guide	:K.H.KRISHNA PRABHA 9344078336 (Excel Central School,Thiruvattar)
Team Coordinator	: Shri.R.Satish kumar 9487274437
Scientist	: Er.K.Ramaseshan 9442237263 (Dy.General, Manager, ISRO Mahendragiri)
Doctor	: Dr.Y.Arul prakash 9443449069 (Asst.Professor Govt Medical College Nagercoil,)
Resource Person	: Shri.S.MURUGAN 9487174609
Consultant	: Shri.P.Gopalan 9442301587 : Shri.S.Thiruvengadam 9442574353



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**ENERGY&ENVIRONMENTAL CHALLENGES**  
**BLUE TEAM**  
**RESEARCH TOPIC – COAL**

- a. Science of coal
- b. Coal –Manufacturing/Producing
- c. Mining and Transporting Coal
- d. Cleaning up coal
- e. How coal is used as energy
- f. Coal-based Electricity Generation
- g. Supply and demand of Coal
- h. Technologies in Coal Industry
- i. The Coal Mines (Nationalisation) Act, 1973
- j. Coal & the Environment
  - i. Land Disturbance, ii. Mine Subsidence iii. Water Pollution iv. Noise Pollutionv. Air Pollution vi. Rehabilitation
- k. Human health hazards
- l. Trends and issues for future coal usage

**DRESS CODE**  
FULL TROUSER : BLACK  
HALF HAND SHIRT : BLUE  
CAP : BLUE  
SHOES/CANVASS : BLACK

1. B S Anjani Krishna	9488272834	<b>Munchirai Punitha Arockiya Matha Matric School</b>
2. R K Roach Mofaza	8344824401	<b>Holy Angel's Matric HSS Chentharai</b>
3. J K Jinu Kumar	9443155494	<b>Govt. Middle school Kadamankuzhi</b>
4. S Renuga Devi	9443627235	<b>St.Ursula's Girls High School,Kulasekharam</b>
5. R A Shibin	9442470225	<b>Vivekananda Kendra Vidyalaya,Kanyakumari</b>
6. V J Daiwoo	9443414970	<b>Christuraja Matric H SS Marthandam</b>
7. A Murali Kesavan	9442157715	<b>Excel Central School,Thiruvattar</b>
8. S A Sanjeev Krishnan	9486941288	<b>NVKS HSS, Atoor</b>
9. G. Sivananth	9442725803	<b>Sree Vivekananda Mat.HSS.Kootumangalam</b>
10. R S Harishma Ravi	9791886126	<b>Devi Matriculation school, Thuckalay</b>

**GUIDE :** Mrs.R.RATHIKA 7598079557 Devi Matric.School,Thuckalay  
**C-ORDINATOR :** Smt.R.R.REKHA 9443692649  
**Scientist :** Er.A.Benzigar Rajan 9486473898  
(Scientist/Engineer, ISRO Mahendragiri )  
**Doctor :** Dr.A.Jayalal 9443160026  
(Asst. Professor, Govt Medical College IMA State General Secretary)  
**Resource Person :** Shri.Sahajan 9894167693  
**Consultant :** Shri.N.Balakrishnan (H.M) 9443740436  
: Shri.S.Johnson (H.M) 9442052155

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