



SREE AYYAPPA COLLEGE

(Managed by Travancore Devaswom Board)

NAAC Accredited with 'B' Grade

Govt. Aided College, Affiliated to the University of Kerala - Estd : 1995

Eramallikkara, Thiruvananthoor, Chengannur, Alappuzha Dist., Kerala - 689 109

F. No. : SAC/PHY/KSCSTE/4/2019.

Date : 26/02/2019

Dr. K. S. ANIL KUMAR M. Tech; Ph. D
Principal

F. No. SAC/PHY/KSCSTE/3/2019

26/02/2019

To

The Dr. P. Harinarayanan
The Coordinator
Wetland Technical Unit
Kerala State Council for Science, Technology and Environment
Sastra Bhavan, Pattom Post
Thiruvananthapuram - 695 004

Sir,

Sub: Wetland programme 2019 - release of sanctioned amount Rs. 18,650/-,
Submission of Utilization Certificate & Report - reg.

Ref : KSCSTE/228 /2018 - WTU dated 18/01/2019

The one day National seminar and Exhibition on Wetland friendly solar energy sources for Climate change - 2019 has been conducted successfully on 31st January, 2019. With reference to the letter cited above, an amount of Rs. 18,650 has been sanctioned to organize the seminar. I am enclosing herewith the statement of expenditure, Utilization Certificate, bills in original and Wetland programme report for your kind attention. Now I kindly request you release the sanctioned amount to the below mentioned bank account.

Bank Name	:	State bank of India
Account holder name	:	The Principal
Account number	:	67082910697
IFSC code	:	SBIN0070085
Branch Name	:	Chengannur

Kindly treat it as urgent and release the sanctioned amount of Rs. 18,650 at the earliest.

- Encl: 1. Report of Wetland programme
2. Utilization Certificate
3. Statement of Expenditure

Yours sincerely

Dr. K.S. Anil Kumar



www.sreeayyapacollege.ac.in



sreeayyapacollege@gmail.com, Principalsace@gmail.com



0479-2427615



Kerala State Council for Science, Technology and Environment

Dated: 18/01/2019

No. KSCSTE/2281/2018-WTU

From
The Coordinator,
Wetland Technical Unit, KSCSTE.

To
Dr. R.T Ananth Kumar,
Assistant Professor,
Department of Physics,
Sree Ayyappa College,
Eramalikkara, Chengannur - 689109

Sir/Madam,

Sub: Financial Assistance for Wetland Day 2019 programme-reg
Ref: Your application dated 28.11.2018.

Please refer your application for financial support for organizing World Wetland Day 2019 programmes. The KSCSTE has examined the proposal and an amount of **Rs.18,650/- (Rupees Eighteen Thousand Six Hundred and Fifty only)** is sanctioned towards the conduct of the programme subject to following conditions. The number of participants in the programme should be ensured as per the proposal. All the programmes as per the proposal should be organized.

- The selected agencies shall inform the exact programmes details to the Coordinator, WTU, KSCSTE, Sasthra Bhavan, Pattom, Thiruvananthapuram by post or by email to coordinatorwtu@gmail.com before the date of the programme.
- All programmes shall be conducted on 2nd February 2019 or within a week or before week. Extension of dates will not be considered.
- KSCSTE should be duly acknowledged in the programme and 'Supported by Kerala State Council for Science, Technology and Environment' should be written in all the brochures, banners (Only cloth banner to be used), other publicity materials etc.
- Each activity should be documented and detailed report should be sent to Council with captioned photographs (Hard copy) highlighting the impact and suggesting follow up activity. A soft copy of the Report, UC & SE in pdf format shall also be forwarded to coordinatorwtu@gmail.com
- The expenditure towards refreshment, food etc shall not exceed 20% of the co-sponsorship from KSCSTE. Maximum honorarium per expert shall be Rs. 2000/- per day.
- No expenditure incurred towards travel for conducting field visit will be provided by KSCSTE.
- The financial assistance will be disbursed through net banking* to the Head of the Institution, only after the successful conduct of the programme, subject to the submission of Activity Report, Statement of expenditure (SE) and Utilisation certificate in KSCSTE format. The format can be downloaded from the website www.kscste.kerala.gov.in. The aided colleges/NGOs shall submit audited UC and SE.
- Reports, SE, UC received after one month (latest by 8th March 2019) of conduct of the programme will not be considered for financial assistance.

Yours faithfully


(Dr. P. Harinarayanan)

*Those who have not submitted the Electronic clearing Service facility form shall submit the same along with UC & SE.

Sasthra Bhavan, Pattom P.O., Thiruvananthapuram - 695 004, Kerala State, India
Tel : 0471 - 2548200-09, EVP - 2543557, 2548222, MS - 2534605, 2548220, CoA - 2543556, 2548248
Fax : 0471 - 2540085, 2534605 e-mail : kscste@gmail.com, www.kscste.kerala.gov.in

Kerala State Council for Science, Technology and Environment
World Wetland Day -2019
Statement of Expenditure

Programme : One day National seminar and Exhibition on Wetland friendly solar energy sources for Climate change – 2019

Date : 31 / 01 / 2019

Venue : Auditorium, Sree Ayyappa College, Eramallikkarra, Chengannur, Kerala

Organized by : Sree Ayyappa College, Eramallikkarra, Chengannur, Kerala

Receipts	Amount (Rs.)	Voucher No.	Payments	Amount (Rs.)
I.		1	Brochure	650
Amount sanctioned from KSCSTE	18,650	2	Application cover, + two items	400
(to be received)		3	Folder + six items	652
		4	Scale + five items	192
		5	Table stand + two items	465
		6	Oil for lighting + two items	72
		7	Certificate printing (150) and design	1,250
		8	A4 paper & Ledger Book	309
		9	Flex design & Printing	1,300
		10	Lunch, Tea & Snacks	3,950
		11	Honorarium & TA	2,000
		12	Honorarium & TA	2,000
		13	School Level drawing – I prize	750
		14	School Level drawing – II prize	500
		15	School Level drawing – III prize	250
		16	School level Essay (English) – I prize	750
		17	School level Essay (English) – II prize	500
		18	School level Essay (English) – III prize	250
		19	College level Essay (English) – I prize	750
		20	College level Essay (English) – II prize	500
		21	College level Essay (English) – III prize	250
		22	College level Essay (Malayalam) – I prize	750
		23	College level Essay (Malayalam) – II prize	500
		24	College level Essay (Malayalam) – III prize	250
		25	College level drawing – I prize	750
		26	College level drawing – II prize	500
		27	College level drawing – III prize	250
Total	18,650		Total	20,740

Certified that I have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by KSCSTE vide Council Order

No KSCSE / 2281 / 2018 - WTU dated 18 / 01 / 2018.

R.T. A2
 30/1/19
 Name & Signature
 of Co-ordinator



[Signature]
 Name & Signature
 of Head of the Institution
Dr. K.S. ANIL KUMAR HomTech, Ph.D.
 Principal
 Sree Ayyappa College, Eramallikkarra
 Office Seal with date

[Signature]
CA PRINCE NINAH B.COM, ICA
MRN: 232883
 Name & Signature
 of Chartered Accountant

Kerala State Council for Science, Technology and Environment

World Wetland Day -2019

UTILIZATION CERTIFICATE

Certified that out of Rs. 18,650 sanctioned by Kerala State Council for Science, Technology and Environment vide Council Order No KSCSE / 2281 /2018 - WTU dated 18 / 01 / 2019 towards financial assistance for the conduct of One day National seminar and Exhibition on Wetland friendly solar energy sources for Climate change – 2019, an amount of Rs 20,740 was utilized for the purpose for which it was sanctioned, leaving a balance of Rs. NIL at the close of 31/01/2019... as shown in the Statement of Expenditure annexed.

R.J.A
25/02/2019
Name & Signature
of Co-ordinator

[Signature]
Name & Signature
of Head of the Institution
Dr. K.S. ANIL KUMAR M.Tech, Ph.D.
Principal
Sree Ayyappa College, Eramallikkara

P. Manian
CA PRINCE NINAN B.COM, ACA
MRN: 232083
Name & Signature
of Chartered Accountant

Office Seal with date



**National seminar and Exhibition on
Wetland friendly solar energy sources for climate change**

Date : 31st January, 2019 (Thursday)

Venue : Auditorium of Sree Ayyappa College, Chengannur, Kerala

Programme Schedule

- | | | |
|-----------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------|
| Registration | : | 09 : 15 am onwards |
| Inaugural session | : | 09 : 45 am to 10 : 30 am |
| (a) Prayer song | : | Ms. Sherin and Ms. Reema
(III B.Sc. Mathematics) |
| (b) Welcome Address | : | Dr. R.T. Ananth Kumar (Convener) |
| (c) Lighting of Lamp
Conferring of Bouquet | : | |
| (d) Inaugural Address | : | Dr. K. S. Anil Kumar
Principal
Sree Ayyappa College, Chengannur |
| (e) Keynote | : | Prof. K. C Prakash
IQAC Coordinator & Associate Prof. of Electronics
Sree Ayyappa College, Chengannur, Kerala |
| (f) Presidential speech | : | Dr. Nitha B
Science Club Coordinator &
Assistant Professor of Microbiology
Sree Ayyappa College, Chengannur, Kerala |
| (g) Vote of Thanks | : | Dr. G. Ganga (Joint Convener) |

High Tea

1st Academic session (10 : 45 am to 12 : 45 am)

Invited lecture – I (10 : 45 am to 11 : 45 am)

Dr. Brilliant Rajan, Assistant Professor and Head, Department of Environmental Science,
St. John's College, Anchal, Kollam District, Kerala

Invited lecture - II (11 : 45 am to 12 : 45 pm)

Dr. Abhilash. R, Assistant Professor, Department of Zoology, Christian College,
Chengannur – 689121, Kerala

Lunch : 12: 45 pm – 01 : 30 pm

2nd Academic session (01: 30 pm to 03:30 pm)

Exhibition and Essay writing for College/School students (Std IX / XI) (01: 30 pm to 02:15 pm)

Exhibition Topic : Wetland conservation, Importance and need of wetland, Rainwater harvesting, Basic lighting using solar energy, Battery storage and irrigation in wetland areas under solar energy, Street lighting in wetland areas, Recharging of communication devices using solar energy.

Essay writing Topic : “The need of wetland protection in Kerala”

Poster session (Drawing): (02: 15 pm to 02:50 pm)

Topic : Wetland and climate change, Rain water harvesting

Tea Break (02:50 pm to 03:00 pm)

Valedictory session : 03: 00 pm – 03: 30 pm

Welcome Note

Distribution of Certificates and prizes

National Anthem

Conclusion of the program

One day National Seminar and Exhibition on
Wetland friendly solar energy sources for climate change - 2019
(NSEW - 2019)

World wetland day celebration - 2019

Date: 31st January, 2019 (Thursday)

Venue : Auditorium

Registration: Free

Organized by



Sree Ayyappa College

(Govt. Aided College, Affiliated to University of Kerala)

Chengannur

Alappuzha District, Kerala

Website: www.sreeayyapacollege.ac.in

E-mail: sacconferences@gmail.com

Phone: 0479-2427615, +91- 9847572822

Sponsored by



**Kerala State Council for Science, Technology
and Environment (KSCSTE)**
Pattom, Thiruvananthapuram
Kerala

Overview of Programme (31/01/2019)

1st Academic session (10: 45 am to 12:45 pm)

Invited lecture - I

Dr. Jude Emmanuel

Environmental Scientist,
Department of Environment and Climate Change,
Thiruvananthapuram,
Kerala

Invited lecture - II

Dr. Brilliant Rajan

Assistant Professor and Head,
Department of Environmental Science,
St. John's College,
Anchal, Kollam Dist., Kerala

2nd Academic session (01: 30 pm to 03:30 pm)

Exhibition, Poster (drawing) and Essay writing for
College/School (Std IX / XI) students.

Exhibition Topic :

Wetland conservation, Importance and need of
wetland, Rainwater harvesting, Basic lighting
using solar energy, Battery storage and irrigation
in wetland areas under solar energy, Street
lighting in wetland areas, Recharging of commu-
nication devices using solar energy.

Poster session topic (Drawing):

Wetland and climate change
Rain water Harvesting

Essay writing Topic :

"The need of wetland protection in Kerala"

From each Institution a maximum of 4 students can
participate in an event with an accompanying
Staff/Parent. Lunch and high tea will be provided.
Certificates will be issued to all participants.
Cash/prizes will be issued to the first/second/third
place holders. All competitions will be conducted
separately for college and school students.

Delegates willing to participate from College / School should
intimate to the convener (+91-9847572822) /
sacconferences@gmail.com on or before 30th January, 2019
(Wednesday). For poster, drawing materials (Pencil, crayon, water
colour, oil paint, sketch pen, painting brush etc.) should be brought
by the students. Chart papers (drawing sheets) will be provided by
the organizing committee.

All the participants should assemble in the auditorium
and they can register their name from 09:00 am.
Registration closes at 09:45 am. Only the registered
participants can participate in all the events. All the delegates
should attend both the forenoon and afternoon session

Theme of the Seminar :

World wetland day is celebrated every year on 2nd
February. This day marks the date of the adoption of the
convention wetlands on 2nd February 1971, in the Iranian city
of Ramsar.

Nearest railway station :

Chengannur (8 km), Thiruvalla (7 km)

Organizing committee :

Sri. A. Padmakumar, Ex. M.L.A (Hon. President, T.D.B)

Sri. K.P. Sankardas (Hon. Member, T.D.B)

Adv. N. Vijaya Kumar (Hon. Member, T.D.B)

Smt. S. Jayasree (Secretary, T.D.B)

Dr. K. S. Anil Kumar (Principal, Sree Ayyappa College)

Convener : Dr. R.T. Ananth Kumar

Joint Convener : Dr. G. Ganga

Committee Members:

**Dr. N. Madhavan,
Prof. K.C. Prakash,
Prof. Jisha Nair B.J.,
Dr. Vidya N,
Dr. Rejiya C.S,
Dr. Sandheep S,
Mr. Praveen Raj,
Mr. Biju P.R**

ONE DAY NATIONAL SEMINAR AND EXHIBITION ON
WETLAND FRIENDLY SOLAR ENERGY SOURCES
FOR CLIMATE CHANGE

January 31st, 2019

Sponsored by



KERALA STATE COUNCIL FOR SCIENCE,
TECHNOLOGY AND ENVIRONMENT
THIRUVANANTHAPURAM

Organized by



SREE AYYAPPA COLLEGE

(Managed by Travancore Devasom Board, Thiruvananthapuram)

Govt. Aided College, Affiliated to University of Kerala – Estd: 1995

Eramallikkara, Chengannur – 689 109

Kerala

**ONE DAY NATIONAL SEMINAR AND EXHIBITION ON
WETLAND FRIENDLY SOLAR ENERGY SOURCES
FOR CLIMATE CHANGE**

January 31st, 2019

Sponsored by



**KERALA STATE COUNCIL FOR SCIENCE,
TECHNOLOGY AND ENVIRONMENT
THIRUVANANTHAPURAM**

Organized by



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Eramallikkara, Chengannur – 689 109

Kerala

**Kerala State Council for Science, Technology and Environment
Thiruvananthapuram**

Report for Wetland Day 2019 programme

1. KSCSTE Ref. No. & date : KSCSTE/228 /2018 – WTU dated 18/01/2019
2. Date of programme held : 31/01/2019
3. Venue : Auditorium, Sree Ayyappa College, Chengannur
4. Title of programme : One day National seminar and Exhibition on
Wetland friendly solar energy sources for Climate
change – 2019
5. (a) Name of the Convener : Dr. R.T Ananth Kumar
Assistant Professor, Department of Physics
Sree Ayyappa College, Eramallikkara
Chengannur – 689 109
6. Grant sanctioned : Rs. 18,650
Total expenditure : Rs. 20,740/-
7. No. of Invited lecture : Two
8. Competitions held : (i) Essay writing in English (School Level)
(ii) Essay writing in English (College Level)
(iii) Essay writing in Malayalam (College Level)
(iv) Drawing competition (School Level)
(v) Drawing competition (College Level)
9. No. of delegates participated
from schools and college : 244

10. Report of the programme held :

**Report on one day National seminar and Exhibition on
Wetland friendly solar energy sources for climate change – 2019**

Theme of the seminar

World wetland day is celebrated every year on 2nd February. This day marks the date of the adoption of the convention wetlands on 2nd February 1971, in the Iranian city of Ramsar.

Summary of Wetland Day 2019 programme

This summary captures a one-day programme of Invited lecture, discussions and competitions based on Wetland friendly solar energy sources for climate change on 31st January, 2019. The seminar was organized by Sree Ayyappa College, Eramallikkara and funded by Kerala State council for Science, Technology and Environment, Thiruvananthapuram.

The event brought together some 150 delegates in and around schools and colleges to participate in the wetland day programme – 2019. The National seminar on wetland began with opening remarks by Invited talks given by the environmentalists. It concluded with a set of competitions of essay writing and drawing based on the theme of Wetland.

Session 1: Welcome and opening statements (09:15 am to 10:30 am)

Opening the National seminar event, the registration was started at 09:15 am onwards on 31st January, 2019. The prayer song was given by Ms. Sherin and Ms. Reema of III B.Sc. Mathematics at 10:00 am. The inaugural function was chaired by Principal Dr. K.S. Anil Kumar. The convenor of the seminar Dr. R.T. Ananth Kumar welcomed the gathering. The lighting of the lamp was done by the dignitaries of the dais. The felicitation address were given by Prof. K.C. Prakash (IQAC Co-ordinator and Associate Professor of Electronics) and Dr. Nitha B (Science Club Co-ordinator & Assistant Professor of Microbiology) of Sree Ayyappa College Chengannur. The vote of thanks was given by Dr. G. Ganga (Joint Convenor & Assistant Professor of Microbiology) of Sree Ayyappa College Chengannur.

Session 2 : Academic session (10 : 45 am to 12 : 45 am) : Invited Lecture

The featured speaker of Invited lecture I was given by Dr. Brilliant Rajan, Assistant Professor and Head, Department of Environmental Science, St. John's College, Anchal, Kollam District, Kerala on the topic "Wetland and Climate Change". The talk was focussed on the wetland usage using the adverse technology of solar energy without affecting the environment. The talk also stated that, we are losing wetlands three times faster than forests. Also directly or indirectly, wetlands provide almost all of the world's consumption of fresh water and more than 40 % of all species live and breed in wetlands. Some interesting questions were raised by the students and it was a nice presentation by Dr. Brilliant Rajan.

The second invited lecture began at 11:45 am by Dr. Abhilash R, Assistant Professor, Department of Zoology, Christian College, Chengannur – 689121, Kerala. The topic was on "Wetlands: A natural solution to Climate Change". He stated that, wetlands are best known to prevent flooding. Because the plant and the soil in all different sorts of wetlands is used to being saturated with water, it can hold onto the water better than other areas. Water that falls as precipitation or that flows down from mountains in streams or that is present in the ground is caught and held in wetlands, which prevents other areas, perhaps further downhill, from flooding. The lecture was ended at 12:45 pm.

As Chengannur was the most affected area by the recent flood 2018 in Kerala, the seminar on Wetland was very useful and was widely accepted by the academic community and students.

Session 3 : Academic session (01: 30 pm to 03:30 pm) : Competition for students

After the post lunch, around 01:30 pm Essay competition in English and Malayalam were conducted for School and College students. Time of 45 minutes was given for essay competition. The topic for Essay competition is "The need of wetland protection in Kerala" and in total 31 students participated in it. Among school level, Parvathy (Std : IX) of K.S.G Hr. Sec. School, Kadapra was awarded the first prize in essay writing.

At 02:15 pm drawing competition were started and around 21 students participated in it. The topic given was "Wetland and climate change, Rain water harvesting". Chart papers, pencil, crayon, water colour, sketch pen, painting brush etc were provided to the students.

Based on the topic of "Wetland conservation, Importance and need of wetland, Rainwater harvesting, Basic lighting using solar energy, Battery storage and irrigation in wetland areas under solar energy, Street lighting in wetland areas, Recharging of communication devices using solar energy" few exhibitions were also exhibited by the students.

The valedictory session started at 03:00 pm. The prizes were distributed to the winners by Prof. K.C. Prakash (IQAC Co-ordinator and Associate Professor of Electronics).

R.T.AS
26/02/2019
Dr. R.T. Ananth Kumar

CONVENER



Dr. K.S. Anilkumar

PRINCIPAL

PRINCIPAL
Sree Ayyappa College (T.D.B.)
Eramallikkara - 689 111
Thiruvananthapuram, Changanassery



Fig.1 Prayer song



Fig.2 Lighting Kuttuvilakku by Dr. Brilliant Rajan. From left Dr. Prakash, Dr. Brilliant Rajan, Dr. Anil Kumar, Dr. R.T. Ananth Kumar, Dr. Ganga, Dr. Nitha



Fig. 3 Address by Principal, Sree Ayyappa College



Fig. 4 Address by Prof. Prakash



Fig. 9 Delegates of wetland day celebration



Fig. 10 Momentum to Dr. Brilliant Rajan



Fig. 7 Invited talk by Dr. Brilliant Rajan



Fig. 8 Invited talk I



Fig. 13 Prize given as a token of answering questions during invited talk.



Fig. 14 Invited lecture II

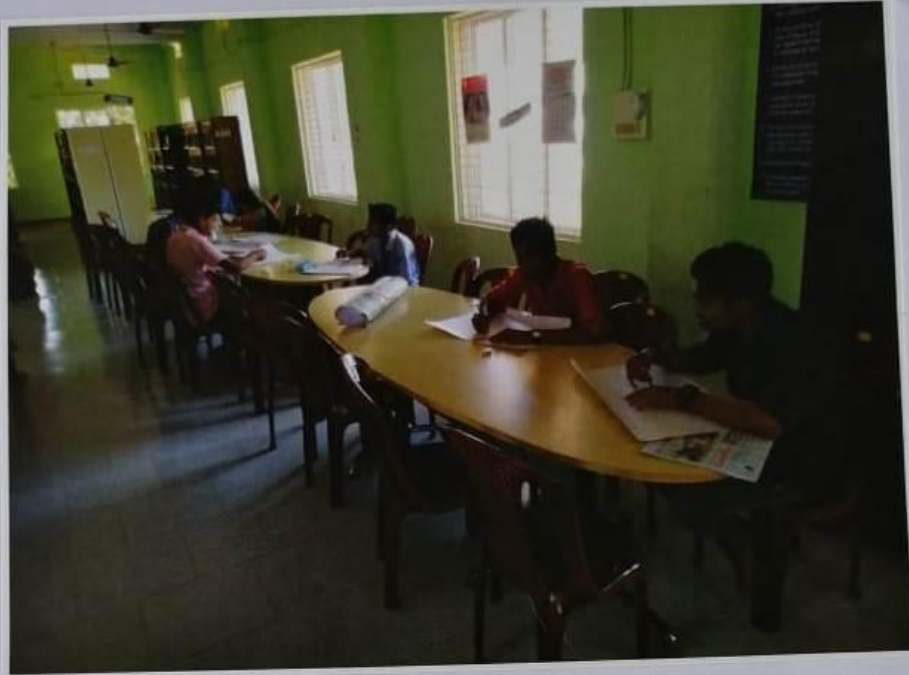


Fig. 17 Drawing competition



Fig. 18 Drawing competition



Fig. 15 Momentum presented to ~~Dr. Abilosh~~
Dr. Abilosh



Fig. 16 Drawing competition

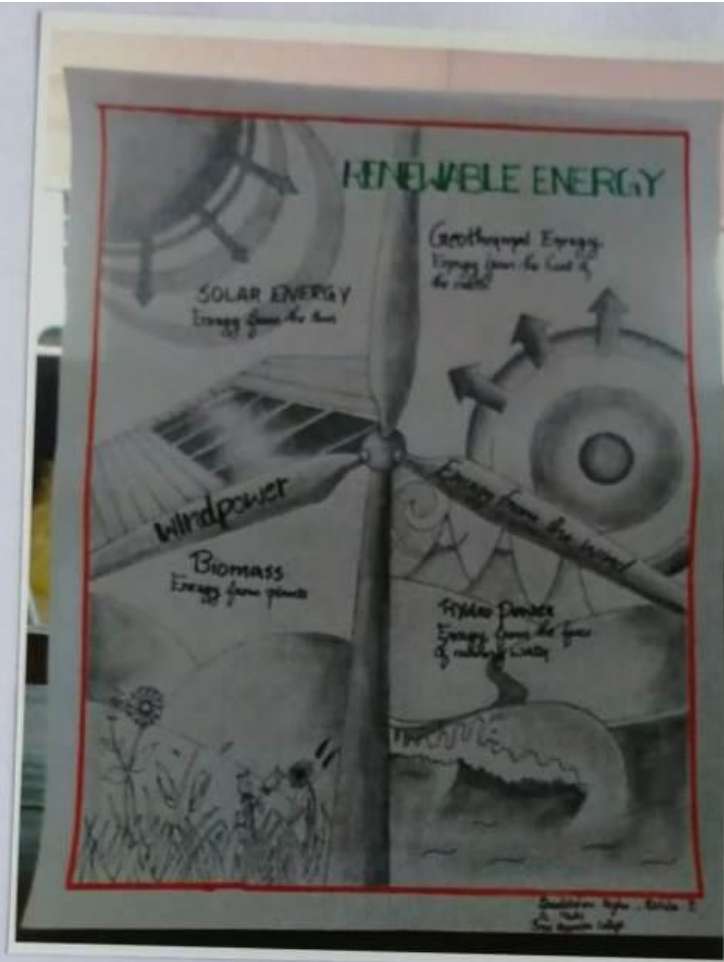


Fig. 24 Drawing



Fig. 25 Prize winner from school level

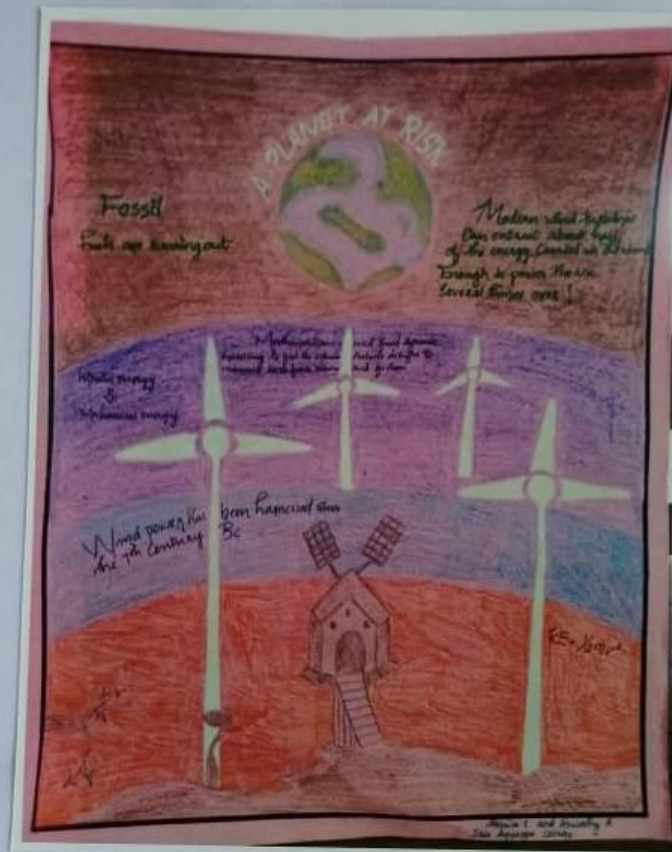


Fig. 19 Drawing by delegates



Fig. 19 Drawing by delegates



Fig. 20 Drawing



Fig-21 Exhibition by delegates