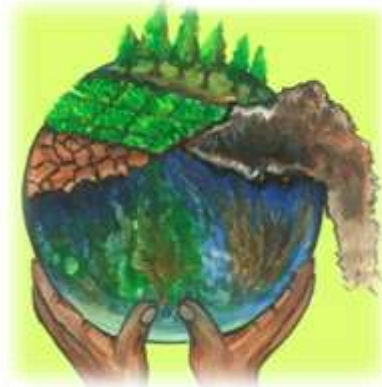


NAAC Criteria VII Institutional Values & Best Practices

7.1.2:

Alternate Energy, Energy Conservation, Waste Management, Water Conservation, Green Campus Initiatives & Disabled Friendly Environment
(Circulars , Photos & Reports of Activities)



A handwritten signature in blue ink, appearing to be "MSJ", located below the circular stamp.

Assessment Period: 2018 – 2023

Criteria VII : Institutional Values and Social Responsibilities

Content

Sr. No.	Particulars	Pg. Nos.
1	Energy Conservation Measures	
	Replacement of traditional lights with LED	3
	Using energy efficient electrical gadgets	3
	Maintenance of Electrical Devices	4
2.	Waste Management	
	Management of various types of degradable waste management : Solid Waste management	5
	Non degradable and re cyclable waste management: Plastic, Paper & Metal	6 - 9
	E -Waste Management	9 -11
3.	Water Conservation	
	Sensitization drive on water conservation	12 -13
4.	Green Campus Initiatives	13- 30




1. Energy Conservation Measures

Replacement of Traditional lights with LED

- The College has replaced old traditional lights with LED.
- Of the total **1255** electric bulbs and lights in the College premises, more than **99%** lights and bulbs are LED (only less than 10 lights are conventional bulbs) contributing to energy saving by reducing energy consumption .

The details of the same is given in the following table:

Sr. No.	Location	Quantity
1.	Campus	51
2.	Auditorium	82
3.	Auditorium Foyer	21
4.	Principal , Vice principal's Cabin and Departmental staff Rooms, cafeteria	90
5.	Ground Floor Office & Corridor, NSS, Multi utility sports Centre, IIC	72
6.	Staff Common Room	21
7.	Digi Space	06
8.	Class Rooms, Conference Room, Laboratories, Library, corridors & Toilets	882

Using Energy Efficient Electrical Gadgets:

The College is committed to minimize the use of conventional energy and encourage the use of green and eco-friendly energy. As a step in this direction, the College has installed electrical devices, especially air-conditioners and refrigerators with star-rated energy saving devices.

The details of the various electrical devices are as under:

Sr. No.	Electrical Devices	Star Rated Devices (Number)
1.	Air Conditioners	3 star rating , 44 nos. 2 star rating, 55 nos.
2.	Refrigerators	2 star rating , 5 nos.

Maintenance of Electrical Devices

The College has Annual Maintenance Contracts for the proper maintenance of electrical devices to ensure their efficiency.

The details of various Annual Maintenance Contract for electrical devices are as under:

Sr. No.	Electrical Devices	AMC Details
1.	Air Conditioners	The College has AMC with M/S Universal Engineering, Vikhroli (East), Mumbai for the effective maintenance of air conditioners 2022-23 onwards to be renewed every year.
2.	Water Coolers	Repairing carried out by M/s Nidhi Enterprises, Santacruz (W.), Mumbai when required. No AMC is given
3.	Electrical Fittings	Mr. Vishram V. , Mr. Vishwanath B. are employed with the College as a Laboratory Assistant and Attendant respectively. They maintain all the electrical fittings and ensure that they are in proper working condition.
4.	Repairing of Scientific Instruments	26 Laboratory staff members from 6 science departments are trained in Repairing and Maintenance of Instruments by professionals from WRIC , Mumbai during an workshop organized by the Department of Physics supported by DBT Star scheme during 8-12 February, 2021




Criteria 7.1.2

R. D. & S. H. National College & S. W. A. Science College, Bandra (W.), Mumbai - 400050
Department of Physics
in Association with
Western Regional Instrumentation Centre (WRIC)

Under the aegis of DBT Star College Scheme supported by MHRD

Manual of Maintenance and Repair of Laboratory Equipments

Prepared for the purpose of Interdisciplinary Training Workshop conducted by Western Regional Instrumentation Centre, Mumbai Date: 07th February, 2021 - 12th February, 2021

Organizing Committee:
Dr. N. S. Rao, Professor/Officer, WRIC, Mumbai
Dr. N. S. Rao, SC Principal
Dr. K. S. Jadhav, Vice Principal, Science
Dr. Lakshmi Devi, Vice Principal
Dr. V. S. Shetty, Head, Department of Physics
Dr. Anand Kumar, Head, Department of Mathematics & Statistics
Dr. Anand Kumar, Head, Department of Chemistry
Dr. V. S. Shetty, Head, Department of Biology
Dr. V. S. Shetty, Head, Department of Microbiology

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Dr. Anand Kumar, Head, Department of Mathematics & Statistics
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Dr. V. S. Shetty, Head, Department of Biology
Dr. V. S. Shetty, Head, Department of Microbiology

R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
Department of Physics
Event Back Form

General Information:
Title of the program : Interdisciplinary Training Workshop on Maintenance and Repair of Laboratory Equipments
Organized by : Department of Physics, R. D. & S. H. National College in association with Western Regional Instrumentation Centre (WRIC) supported by MHRD
Program organized under : DBT Star College Program for Support Staff (Non Teaching Faculty) of Departments of Physics, Chemistry, Botany, Zoology, Microbiology
Date: 07th February, 2021 to 12th February, 2021 Venue: Department of Physics Laboratory
Time: 10:00 am to 4:00 pm

Event Details:
1. Was the Theme of the Workshop relevant to your regular responsibility as the laboratory? Yes No
2. My knowledge of the topic of Workshop prior to attending this was (tick the appropriate):
None had a knowledge on the maintenance or repair of Instruments / equipments
Poor understanding of the maintenance or repair of Instruments / equipments
Average knowledge of the maintenance or repair of Instruments / equipments
Good knowledge of the maintenance or repair of Instruments / equipments
Expert level of the maintenance or repair of Instruments / equipments

3. Please rate the workshop against the scale of 5 (5 = excellent), 4 = good, 3 = fair, 2 = poor, 1 = very poor

Name of the reviewer	5	4	3	2	1
Knowledge of the subject matter	5.0000	5.0000	5.0000	5.0000	5.0000
Level of interaction	5.0000	5.0000	5.0000	5.0000	5.0000
Content relevance to the course	5.0000	5.0000	5.0000	5.0000	5.0000
Time management	5.0000	5.0000	5.0000	5.0000	5.0000

4. Please rate the workshop against the scale of 5 (5 = excellent), 4 = good, 3 = fair, 2 = poor, 1 = very poor

Name of the reviewer	5	4	3	2	1
Knowledge of the subject matter	5.0000	5.0000	5.0000	5.0000	5.0000
Level of interaction	5.0000	5.0000	5.0000	5.0000	5.0000
Content relevance to the course	5.0000	5.0000	5.0000	5.0000	5.0000
Time management	5.0000	5.0000	5.0000	5.0000	5.0000

2. Waste Management :
Management of the various types of degradable waste management :



SOLID WASTE MANAGEMENT FOR ZERO GARBAGE CAMPUS



Goals: To inculcate habits of cleanliness and hygiene among students, encourage them to convert garbage into an economic resource. Reduce, Reuse and Recycle garbage of our college and make our college campus "Zero Garbage Campus".

Waste Segregation:

- Creating awareness about segregation of dry waste (eg. Paper, plastic, metal, glass, ceramics, leather etc.) and Wet waste (eg. Cooked and uncooked food, waste from fruits, flowers, fallen leaves and other things).
- Different locations in the college campus were identified for setting up of "WET" and "DRY" garbage bins.
- Wet waste and Dry waste is segregated by putting it in separate bins (Green bin for "WET" waste and Blue bin for "DRY" waste).
- The wet waste and dry waste from different location of college is collected separately at 8:30 am.
- E-waste is collected separately in black bins, from all laboratories and offices.
- Plastic bottles are collected separately by NSS volunteers for using it in Vegetable nursery garden project.

Composting Of Wet Waste :-

VERMICOMPOST UNIT:

- Wet waste, like leaves, garden waste, waste segregated from college campus (Green bin), uncooked food from canteen, waste from segregated wet waste bin is collected at 10 am by the students and the non-teaching staff.
- This wet waste is weighed and is subsequently put in vermicomposting units.
- The vermicompost harvested is distributed to teachers, students of our college and neighboring colleges or to anyone who requires it.

VERMICOMPOSTING PIT (SWM)



TUMBLER UNIT:

- Wet waste especially leftover cooked food etc. is collected by students and non-teaching staffs at 3.00 pm.
- The wet waste is weighed and subsequently put in the composting unit.
- Bacterial culture and saw dust is added to the tumbler composting unit for proper composting and odour free campus respectively.

Recycling of paper and dry waste :

- BMC authorized agency - Aara Welfare Association collects dry waste everyday at 8:30 am from college campus.
- Confidential papers are recycled by authorized BMC agency by shredding it in their warehouse.



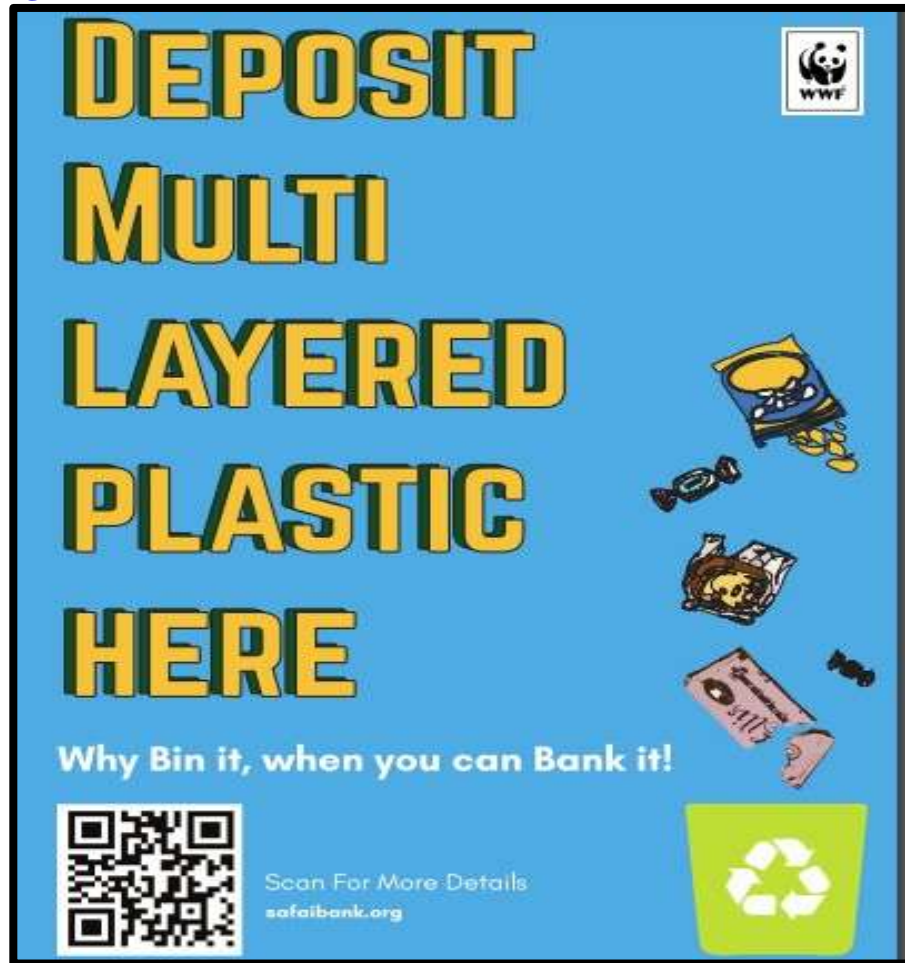


Documentation of degradable waste management practiced in the College campus using Two bin Solid Waste Segregation System and Composting using Tumbler and Ground Pit




Management of the various types of non-degradable and recyclable waste management

Plastic waste management



Safai Bank ^{WWF}

Safai Bank Branches Loaded, Showing 5 rows

Show entries Search:

Branch	Contact Point	Account Holders	Centre Managers	Total Collection
Poddar Brio International School Badlapur, Maharashtra	Mr. B S Rao	43	2	30786
Rustomjee Cambridge International School - (Introduced to program by GCF) Mumbai, Maharashtra	Maryann	0	2	19100
Shree International School and Jr. College - An IB World School (Introduced to program by GCF) Mumbai, Maharashtra	Huzalfah Bhaladar	2	1	6000
R D & S W A Science College Mumbai, Maharashtra	Prof. Nikhil Disoria	11	1	1090

Students are encouraged to collect multilayered plastic wastes and submit to 'safai bank' – as an initiative started in association with WWF-India chapter




Students are sensitized towards using cloth bag instead of plastics bags through various activities:

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club
announces**

**Competition on
"Make your Own Shopping Bag from Used Cloth"**

**Last Date of Submission(Online):
2nd June 2021**

- Any Bonafide student of the college can be part of this initiative
- Design Your Bag. Make it Attractive and User Friendly
- Write Slogan
- Demonstrate the use of your Bag- Take Photograph . Submit the Photograph
- Mail the photo along with your name and Class at natureclub.rdnational@gmail .com
- 3 best bags will get Certificate which will be declared on 5th June 2021 on World Environment Day

PLASTIC FREE SURROUNDING CAMPAIGN

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club
announces**

**Competition on
"Make your Own Shopping Bag from Used Cloth"**

**On 5th June, 2021
World Environment Day
An Awareness generation program under
Plastic Free Surrounding Campaign**



**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
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announces**

**Competition on
"Make your Own Shopping Bag from Used Cloth"**

**On 5th June, 2021
World Environment Day
An Awareness generation program under
Plastic Free Surrounding Campaign**



**Farheen Shaikh
FYBSc
1st Place**

**Aliza Mohd. Shafi Shaikh
FYBSc
2nd Place**

**Md. Sohail Md. Salim Shaikh
FYJC
3rd Place**

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club
announces**

**Competition on
"Make your Own Shopping Bag from Used Cloth"**

**On 5th June, 2021
World Environment Day
An Awareness generation program under
Plastic Free Surrounding Campaign
SPECIAL PRIZE WINNER CATEGORY**



**Afreen S.
FYJC**

**Prajapati Poonam
FYJC**

**Swayama C.
FYBSc**

**Shafi Alisha
FYJC**

**Sapriya Jaiswal
FYJC**

**Sanskriti S.
TYBAMMC**

**Ayushi Jain
FYJC**

**Urvi Shah
SYBCom**



Certificate of Recycling of paper , Iron & E-waste generated in college



Date 28-03-2023
SSSPL-2022-23/040

To,
R. D. National college
Jotu kudnani chowk,
off linking road,
Bandra west
Mumbai 400050

Subject: Green certificate for responsibly disposing dry (non-biodegradable) waste.

This is to confirm that **1546.0 kgs** of waste was collected from **March 2022 February 2023**, in the form of Dry waste from Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull Assomull Science College Jotu kudnani chowk, off linking road, Bandra west Mumbai 400050 and has been collected by ReCircle (brand of Swachh sustainable solutions Pvt Ltd) and its partners. The collected waste has been sent for processing via recycling & co-processing to ensure that no waste reaches landfills and oceans.

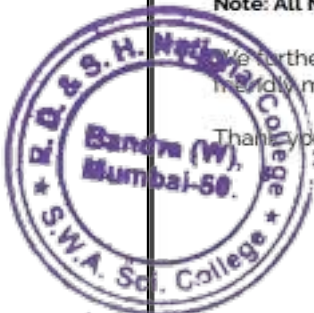
Total Material Diverted in **March 2022 February 2023**.

Material	Quantity
Mix Colour paper	1349
Iron	145
E-Waste	52
Total	1546

Note: All Numbers in Kg

We further confirm that the above-mentioned quantity of waste has been processed in an environmentally friendly manner and none of the waste has reached the landfills or oceans.

Thank you for your contribution!



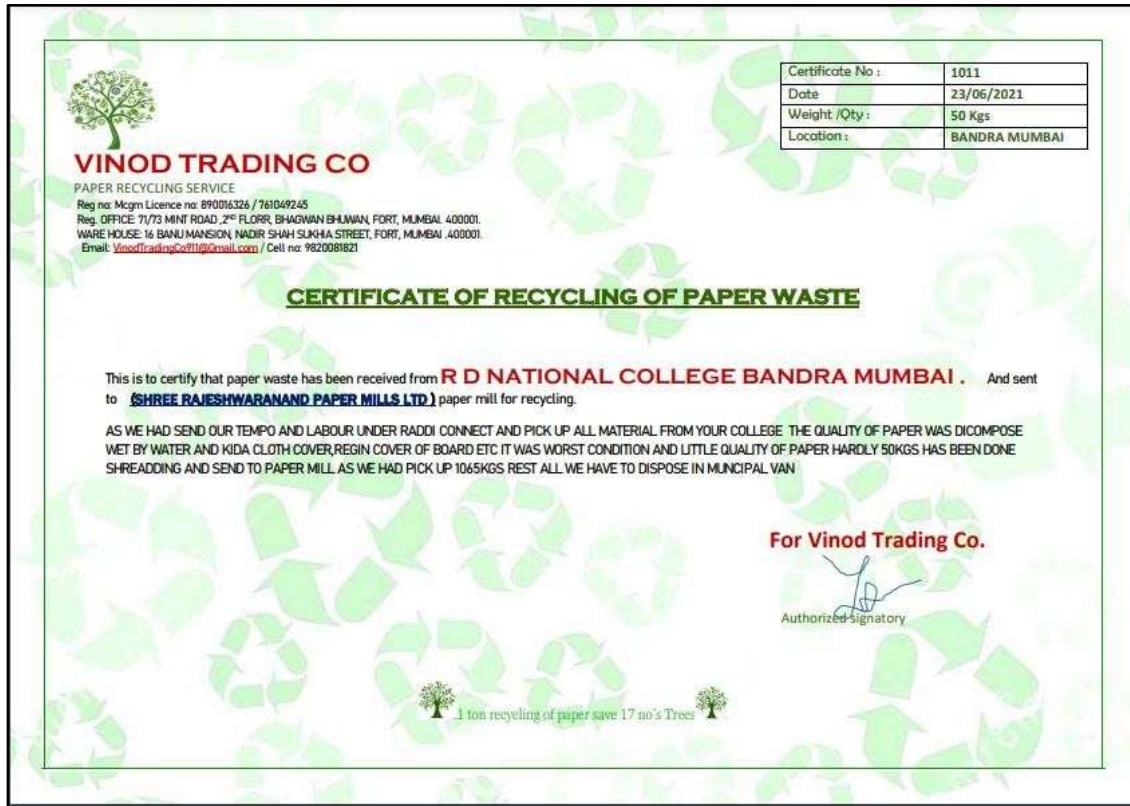

Yours sincerely

Swachh Sustainable solution Pvt Ltd.

Swachh Sustainable Solutions Pvt Ltd

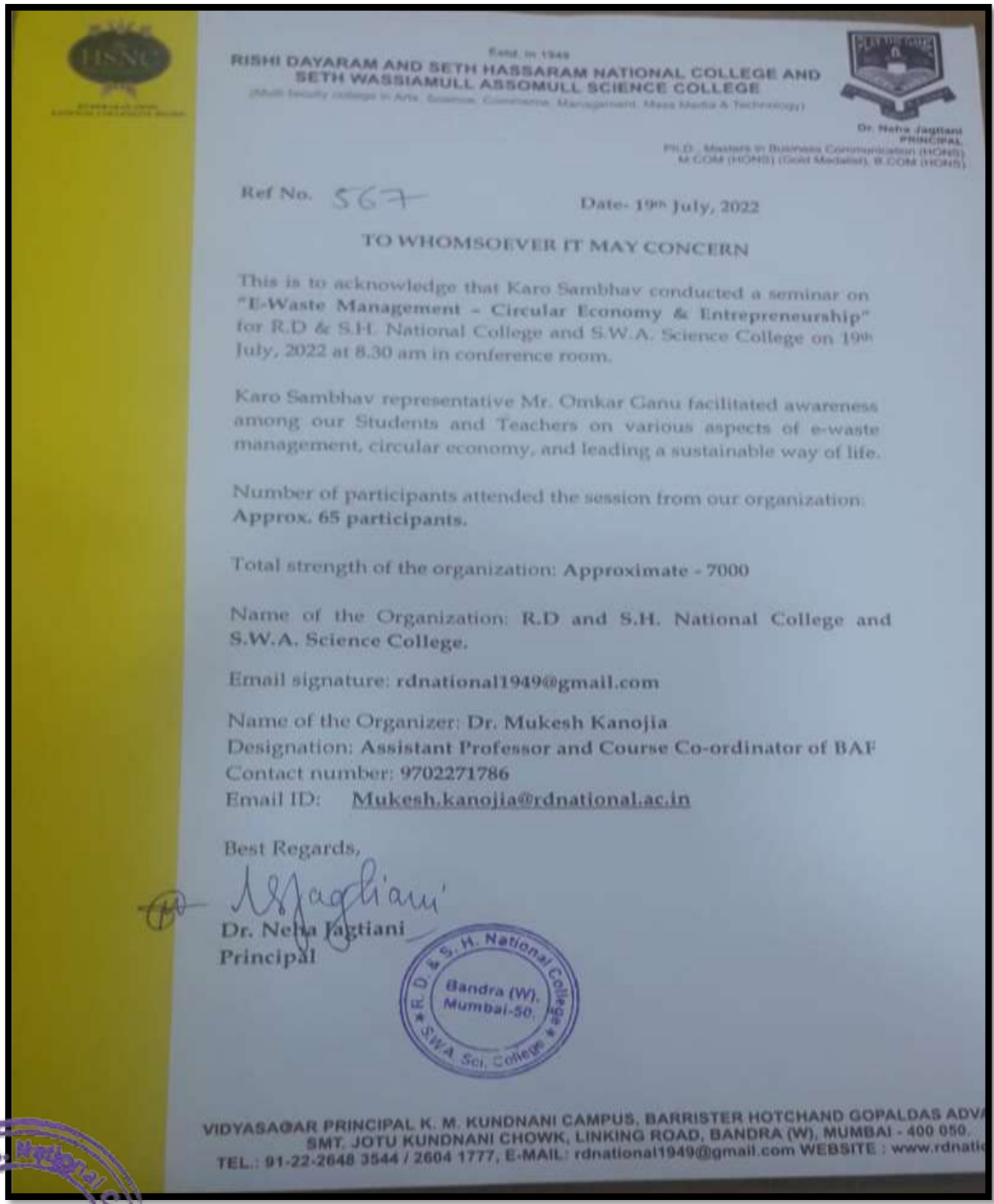
A-03, JUHU RITURAJ CHS, JUHU TARA ROAD, SANTACRUZ, WEST MUMBAI 400049.
+91 90042 40004 | info@recircle.in | www.recircle.in

Recycling of paper waste generated in college:



E-Waste Management in collaboration with “Karo Sambhav”





Recycling of 174 pieces & 2 poly bags of e-wastes submitted to 'Karo Sambhav' amounting to 496.6 kg of E-wastes on December 1, 2021



Session on E-waste Management by Karo-Sambhav for awareness generation amongst students:



3. Water Conservation:

Sensitization drives on water conservation:

On the eve of National Science Day, on 26th February, 2022 a motivational session was organized on the topic “Catch the Rain” to sensitize youth towards the benefit to harvesting of rain water for achieving sustainability in association with Dr. Subhajt Mukherjee, Jal Shrishti Abhiyan. Around 400 students and 15 Faculties have attended this program. “Catch the Rain” concept is spearheaded by Veteran singer Smt. Anuradha Paudwal through her NGO.



R D & S H National College & S W A Science College, ~~Bandra~~, Mumbai -50

Notice 24/2/22

On account of National Science day the Faculty of Science has organized a two day seminar and workshops on 25th and 26th of February 2022. Lectures and Practical of all science departments will be suspended on these two days. Undergraduate & Post graduate Students of ~~Physics~~, Chemistry, Botany, Zoology, Maths, Computer Science, Biotechnology & Information Technology are required to compulsorily attend the seminar and workshops in the offline mode.

Program Schedule

National Science Day Celebrations- 25th and 26th February 2022 under DBT STAR College Scheme

Circular Economy - A step towards sustainable Future

Chief Guest: Dr Vijay Habbu, Adjunct Professor, ICT Mumbai

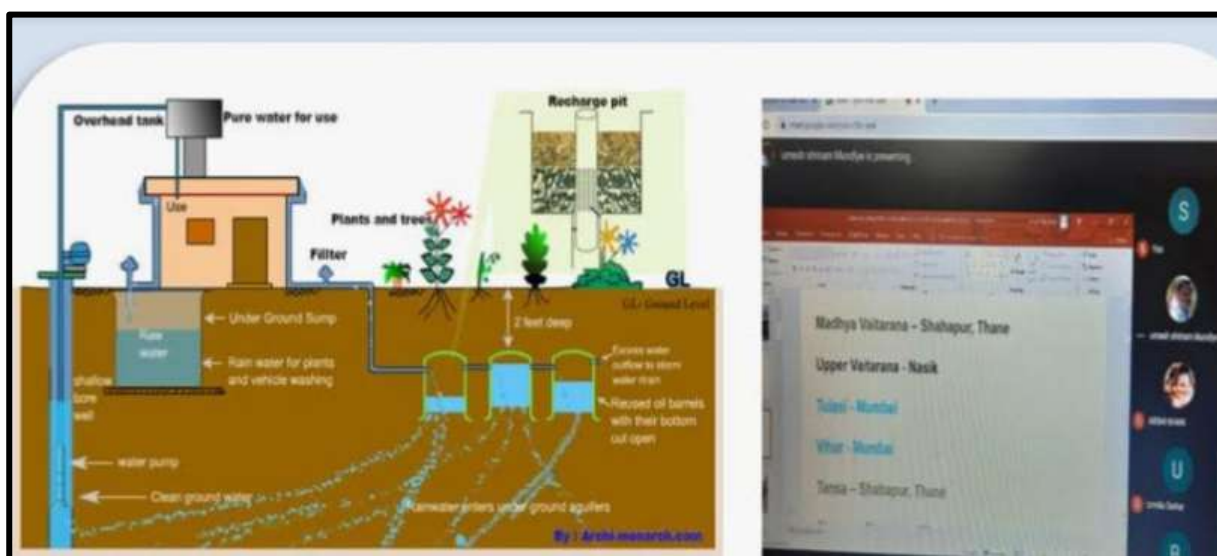
Day 1: 25th February 2022 – Auditorium

10.00am – 10.45am	Inauguration	
10.45am – 11.45am	Prof(Dr) Vijay Habbu (Adjunct Professor, ICT, Mumbai)	Key note address
11.45am – 12.45pm	Dr Nandu Jha, ICT, Mumbai	Nanomaterials for Energy Applications
12.45pm – 1.45pm	Lunch Break	
1.45 pm – 2.30pm	Padma Shri, Dr. Anuradha Paudwal & Dr Subhajt Mukherjee (Jal Shrishti Abhiyan)	Rain water Harvesting
2.30pm to 4.00pm	Workshop on Rain water Harvesting	

Day 2: 26th February 2022 – Conference Room

10.00am – 10.45am	Career in paramedical courses	Hinduja Hospital
10.45am – 11.30am	Prof(Dr) Sanglikar	Digital Technology
11.30am – 12.15pm	Mr Jayesh Vishwakarma	Livelihoods in Mangroves
12.15pm – 1.00pm	Dr Shekhar Badaavale	Carbon circle in regenerative SRT method of Framing
1.00pm – 2.00pm	Lunch Break	
2.00 pm – 2.30pm	Dr Prachi Badakar, Principal, SMT-CMPHMC	Biosanitizers
2.30pm to 4.00pm	Workshop on Biosanitizers	
2.00pm	Scientific Poster competition	Botanical Garden
4.00pm	Valedictory	

On line session on importance of **Rain Water Harvesting** was organized on **3rd February, 2020** to observe world water day by the Department of Botany under DBT Star College Scheme . **58 participants** have attended this session . The resource person for this program was Dr. Umesh Mundley, Director, OIKOS Private limited, Pune



4. Green Campus Initiatives:

Activities organized for Clean and Green Campus : Reuse of plastic bottles to propagate various vegetable and plants by NSS Students of the college



Workshop on ‘Rethink Plastic’:

Awareness and sensitization workshop on **Rethink Plastic** organized by NSS Unit and MHRD Innovation Cell RDNC with support from National Service Scheme Cell, University Of Mumbai; TERI - The Energy And Resources Institute under The Aegis Of United Nations Environment Program (UNEP) on Monday, 3rd Feb, 2020 where 347 students from 36 colleges have participated.



Ms. Saloni Goel, Consultant Plastic Pollution, UNEP Presenting her talk on
COUNTER -MEASURES AGAINST MARINE PLASTIC LITTER



Group Photo of students for ‘Rethink Plastic’ Workshop





R.D. & S.H. NATIONAL COLLEGE & S.W.A. SCIENCE
COLLEGE BANDRA WEST, MUMBAI - 50
ACTIVITIES 2019-20



RETHINK PLASTIC
AN AWARENESS AND SENSITIZATION WORKSHOP

UNDER THE AEGIS OF

UNEP PROJECT ON PROMOTION OF COUNTERMEASURES AGAINST MARINE PLASTIC LITTER



ACTIVITY DATE: Monday, 3rd Feb, 2020
(TIME: 9.30 AM - 1.30 PM)

Students participated:

M	167	F	180	Total	347
Number of Colleges					36

Venue: College Auditorium, R.D. and S.H. National College, Bandra (w)

Nature of Program:

- I. Inter-college Poster competition on Menace of Plastic Pollution
- II. University Level Workshop for Awareness And Sensitization on Menace Of Plastic

Organized by: Organized By NSS Unit and MHRD Innovation Cell RDNC with support from National Service Scheme Cell, University Of Mumbai; TERI - The Energy And Resources Institute Under The Aegis Of United Nations Environment Program (UNEP)

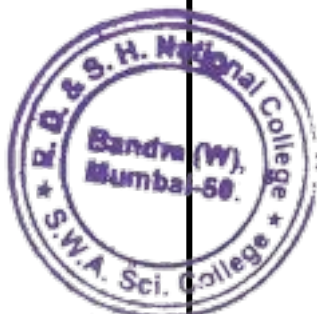
Resource Persons:

- Dr. Anjali Parasnis; Associate Director, The Energy and Resources Institute (TERI), MUMBAI
- Ms. Saloni Goel, Consultant Plastic Pollution, UNEP
- Ms. Shaila Sam - Communications Specialist - UNEP

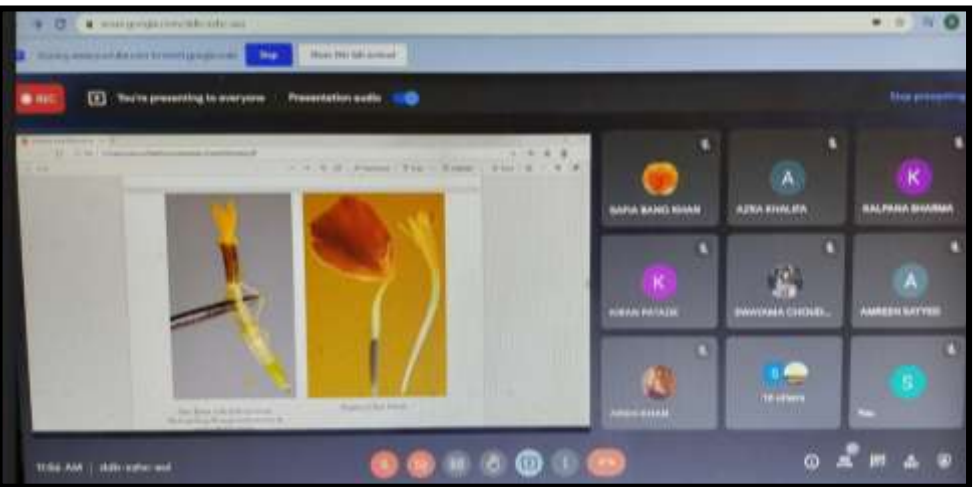
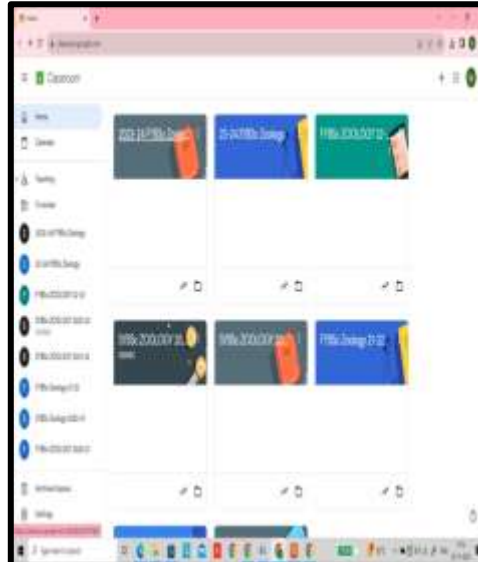
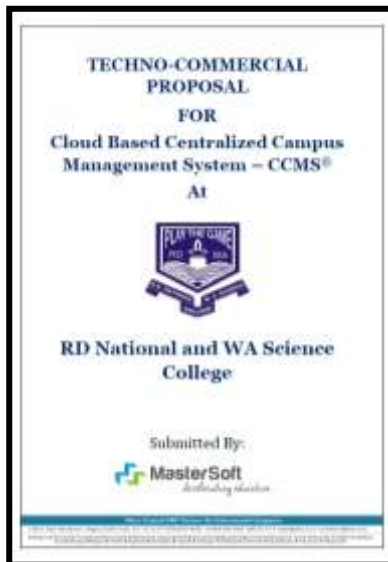
Brief Activity Description: Awareness and Sensitization Workshop for National Service Scheme (NSS) students of University of Mumbai was organized at Rishi Dayaram (RD) National College, Mumbai as part of the 'Rethink Plastic' Campaign under the aegis of UNEP PROJECT ON PROMOTION OF COUNTER MEASURES AGAINST MARINE PLASTIC LITTER. The workshop was attended by 347 NSS students from 36 different colleges of Mumbai faculty members from R.D. National College and research staff from TERI. Following aspects related to plastic were covered at the workshop:

1. Creating awareness about plastic pollution.
2. Motivating youth to Influence communities to eliminate Single use plastic
3. Carry out a perception survey and discussions with youth
4. Engaging communities and stakeholders with emphasis on youth

A lucid talk on Rethink Plastic Campaign was delivered by Dr. Anjali Parasnis, Associate Director, TERI. She explained How substantially increasing plastic pollution is damaging the mangroves. She enlightened the students How mangroves ecosystem support biodiversity and livelihood and play a key role in flood control, carbon sequestration and also help stabilise coastal erosion. She appealed youth to come forward and raise awareness among communities to combat plastic pollution. She explained how the reuse and recycling of plastic can help in offsetting our carbon footprint. Dr. Parasnis comprehensively covered many other aspects also to highlight the extend of the problem of plastic pollution. Ms. Saloni Goel Plastic Pollution Consultant in UNEP also delivered a talk and interacted with the students at the workshop. She explained UNEP's role to driving research and action on the menace of plastic waste specially its impact of marine ecosystems. She also explained the Counter Measures project and its significance to enhance our understanding on sources, content



Cloud Based Centralized Campus Management System software to restrict use of paper thus minimization use of papers for internal communication. **Lecture notes** are sent to the students through **LMS platform** instead of paper based notes



Handwritten signature

To sensitizes students about various aspects of Nature we celebrate environmentally important days such as World Water Day, Earth Day, Mangrove Protection Day, World Biodiversity Day, Vanomashotav, etc every year.



R. D. & S. H. National College and S. W. A. Science College
Bandra, Mumbai-400050.

THE NATURE CLUB
NOTICE

1st July 2020

Dear Students,

Taking a small break from the current situation of the world, we thought of celebrating World Water Day (22nd March) in 1993. Since then, every year, there is a day to celebrate the importance of water. Through this notice, we are inviting you to participate in the celebration.

This year the entire world is facing the threat of Pandemic Covid-19. It is time to think about the water we use. We are celebrating World Water Day on 22nd March 2021. The Nature Club of R. D. & S. H. National College is organising a competition on the occasion of World Water Day. The theme of the competition is 'Water for All'. Through this notice, we are inviting you to participate in the competition. The details of the competition are given below.

We ask you all to please attend our meeting at home (uploading of your photos that can give a good lesson and submit photographs of it to pravin@natureclub.org and you should also write the reason behind the choice of your particular poem. We also want you to send us some details of the place and date by 15th July 2021.

The Date: 22nd March 2021

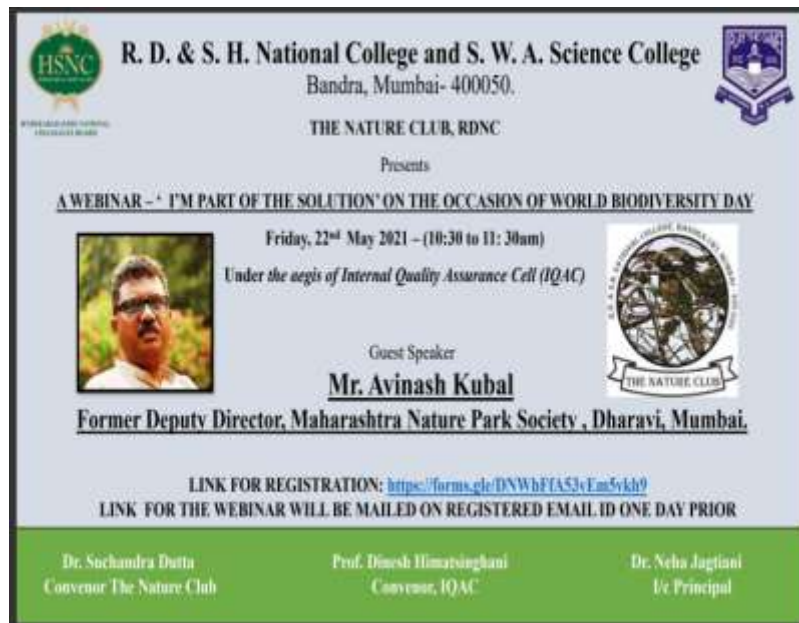
The Venue: The Nature Club, R. D. & S. H. National College

The Format for submission can be as follows:

- Theme of the notice
- Class, Roll no.
- Name of the place
- Description of the place
- Photograph
- Reason for choosing this place

N.B.: Due to current Covid-19 Pandemic, students are prohibited from going outside to buy saplings or photographs, instead they need to grow/ generate seeds (such as wheat, gram, chick, mangoes, etc.) in the already available pots in your home.

Dr. Suchandra Dutta
Convener, The Nature Club




R. D. & S. H. National College and S. W. A. Science College
Bandra, Mumbai-400050.

THE NATURE CLUB, RDNC
Presents

A WEBINAR - 'I'M PART OF THE SOLUTION' ON THE OCCASION OF WORLD BIODIVERSITY DAY

Friday, 22nd May 2021 - (10:30 to 11:30am)

Under the aegis of Internal Quality Assurance Cell (IQAC)



Guest Speaker
Mr. Avinash Kubal
Former Deputy Director, Maharashtra Nature Park Society, Dharavi, Mumbai.

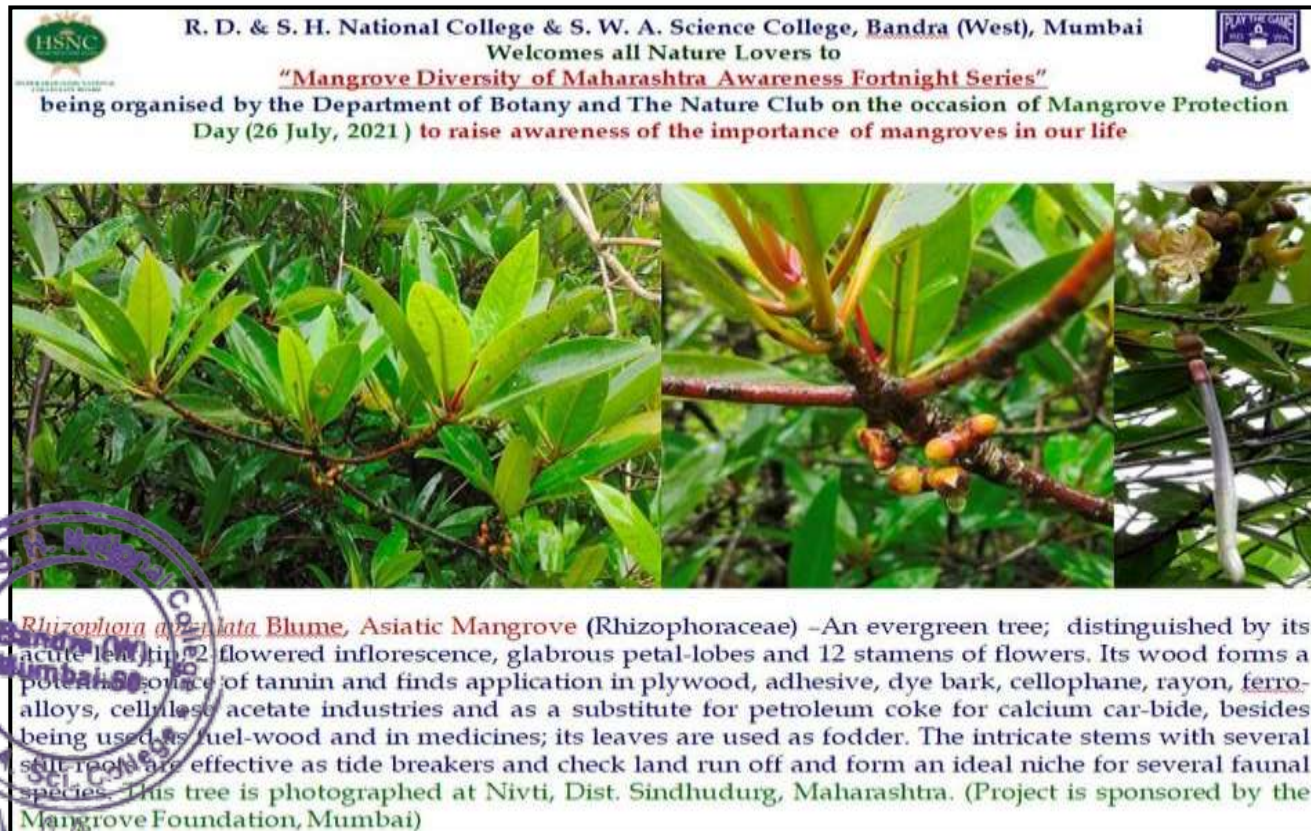
LINK FOR REGISTRATION: <https://forms.gle/DNwbFFA53cEm5vkh9>
LINK FOR THE WEBINAR WILL BE MAILED ON REGISTERED EMAIL ID ONE DAY PRIOR

Dr. Suchandra Dutta
Convener, The Nature Club


Prof. Dinesh Himatsinghani
Convener, IQAC

Dr. Neha Jagtiani
I/c Principal

Information Poster Created during Mangrove Protection Day, 26 July 2021



R. D. & S. H. National College & S. W. A. Science College, Bandra (West), Mumbai
Welcomes all Nature Lovers to
"Mangrove Diversity of Maharashtra Awareness Fortnight Series"
being organised by the Department of Botany and The Nature Club on the occasion of Mangrove Protection Day (26 July, 2021) to raise awareness of the importance of mangroves in our life



Rhizophora apiculata Blume, Asiatic Mangrove (Rhizophoraceae) - An evergreen tree; distinguished by its acute leaf tip, 2 flowered inflorescence, glabrous petal-lobes and 12 stamens of flowers. Its wood forms a potential source of tannin and finds application in plywood, adhesive, dye bark, cellophane, rayon, ferro-alloys, cellulose acetate industries and as a substitute for petroleum coke for calcium car-bide, besides being used as fuel-wood and in medicines; its leaves are used as fodder. The intricate stems with several still roots are effective as tide breakers and check land run off and form an ideal niche for several faunal species. This tree is photographed at Nivti, Dist. Sindhudurg, Maharashtra. (Project is sponsored by the Mangrove Foundation, Mumbai)

Celebration of Environmentally important days in College

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050**

21/2/22

Notice


R. D. & S. H. National College & S. W. A. Science College takes pleasure to propose a Inter-Collegiate Poster Presentation Competition on World Water Day on 21st March 2022 and on Earth Day on 22nd April 2022.

This will also be a creative platform for the students to understand and learn various aspects of preparing project report and presentation skill.

Students of various College, including Post Graduate courses and Professional courses are eligible to compete in this competition.




Theme – Environment Pollution Mitigation involving Recycling, Reducing and Reuse

You are required to submit your posters by 20th March 2022 in the Department of Biology by 2 pm


Suchandra Dutta

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club
Observation of World Water Day 2022 (22 March, 2022)**

Poster Competition Result

		
1st Prize: Shaikh Taha Asif FYBSc	2nd Prize: Azra Khalifa SYBSc	3rd Prize: Poonam R. Yadav FYBSc

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club
Observation of Earth Day 2022 (22 April, 2022)**



40+ Exhibits on Plant/Animal Interaction documented in RDNC Campus: A pictorial Exhibition






Medicinal Herb Plantation initiative to celebrate Vanmahotsav 2021:

R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
The Nature Club

12/03/2022

Medicinal Herb Plantation Initiative

The Nature Club in association with the Department of Botany has organized a Medicinal herbs plantation drive to celebrate Vanmahotsav 2021.

Principal Dr. Neel Jagtiani has consented to kick start the event. Interested faculty members and support staff are requested to remain present to plant medicinal herbs in newly proposed medicinal plant garden.






Regional cum Facilitation Centre - Western Region, Pune
National Medicinal Plant Board
Ministry of AYUSH, Government of India
&
R. D. & S. H. National College, Bandra (W.), Mumbai
(Nature Club & Dhanwantari Medicinal Plant Garden, Department of Botany)

Jointly organise

Distribution of 1000 Medicinal Plant Saplings
(to students, teachers and common citizens of Mumbai)

To celebrate VANMAHOTSAV 2022

On Tuesday, 12th July, 2022 from 12:15 pm to 2:30 pm
Venue: Botanical Garden, R. D. & S. H. National College
Bandra (W.), Mumbai 400050





Session on **generation of electricity from compost** through Solid Waste Management was organized on 11th September 2019. 133 students and 15 faculty members have attended the session. Smt. Nirmala Kandgaonkar, Proprietres Vivam SWM private Limited, Pune



Instead of floral bouquet, college prefers to **gift saplings and other merchandise, such as Vermicompost, Terrarium, Herbal products** which are prepared by our students

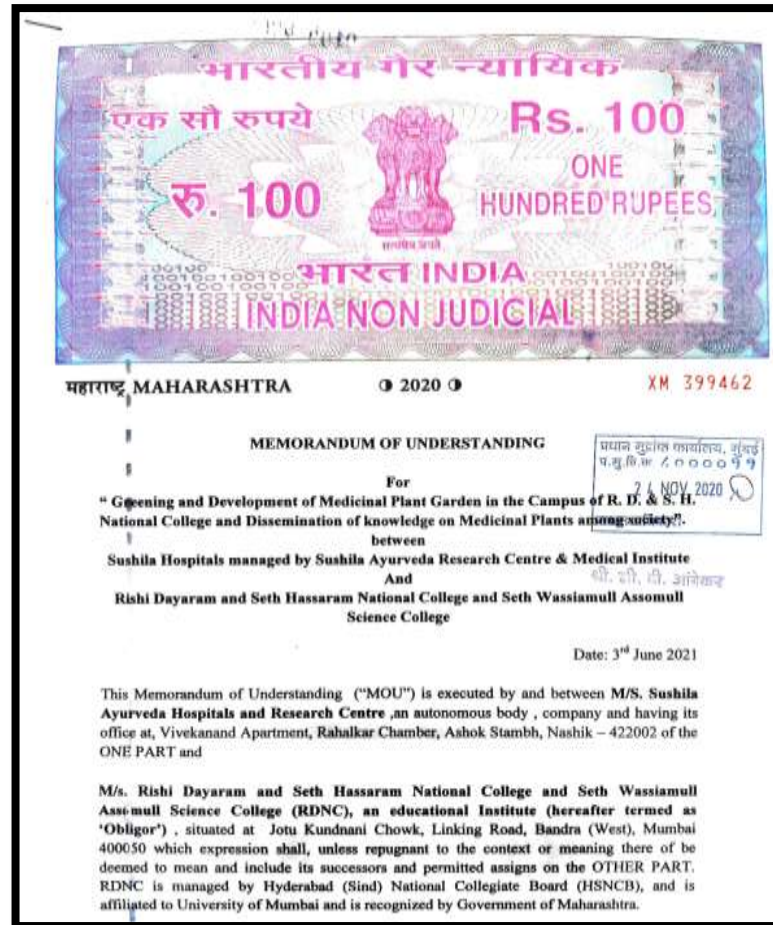


QR coding of plants on the campus:



MoU signed on 3rd June 2021 between R. D. National College and with Sushila Ayurveda Research Centre , Nashik for development of Medicinal Garden and dissemination of knowledge (5 years)





Botanical Garden: Green Landscaping with tree and plants.



Harvest from Botanical Garden : Aromatic turmeric leaf, Coconut, Mango ginger, Banana, Long pepper



Students of other colleges, plant enthusiasts, experts, etc. also visit the medicinal plant garden and Botanical garden for learning horticulture, medicinal botany, economic botany and plant taxonomy.

Till date ca 325 students of Botany, Chemistry, Marketing, Humanities faculty from 7 different colleges and personnel from Pharmaceutical and nursery; researchers of International Repute and Tour guides visited the garden





5 yearly Tree census of the college campus (using Etrex20) and calculation of ideal carbon sequestration rate by each tree in the campus carried out by the student .

**R. D. & S. H. National College & S. W. A. Science College
Bandra (W.), Mumbai 400050
Department of Botany**


12/03/2022

Notice for Tree Census in College Campus

The Department of Botany undertakes Tree Censis in and around the college campus once in every 5 years. Previous census was carried out in 2027-28.

On 21st March 2022, the department plans to begin the census work. Selected students of FY & SYBSc Botany will be a part of it. They will be counting and numbering every tree in the campus, assess the health of the tree and compare the result with previous census report.

Students will report for the instruction cum training session in the garden on Monday, 14th March 2022 at 10am.



Suchandra Dutta
Incharge, College Garden

Botany students conducting tree census



The College Tree Census document : 102 trees from the campus are documented during the census. Every tree is numbered. DBH and exact location of trees in the campus (using eTrex 20) are recorded. Ideal carbon sequestration value (in kg.) by every tree is calculated.

TREE CENSUS RECORD AND CARBON SEQUESTRATION DATA OF TREE'S OF CAMPUS														
No.	Tree	Family	Location	Trunk girth (cm)	Height (m)	P.B.R.	DBH (cm)	DBH (inches)	DBH (feet)	DBH (m)	DBH (in)	DBH (ft)	DBH (m)	DBH (in)
1	Acacia senegal	Acacia	HSPT/01/001	100/70/100	10	10	100	4	10	100	4	10	100	4
2	Acacia senegal	Acacia	HSPT/01/002	100/70/100	10	10	100	4	10	100	4	10	100	4
3	Acacia senegal	Acacia	HSPT/01/003	100/70/100	10	10	100	4	10	100	4	10	100	4
4	Acacia senegal	Acacia	HSPT/01/004	100/70/100	10	10	100	4	10	100	4	10	100	4
5	Acacia senegal	Acacia	HSPT/01/005	100/70/100	10	10	100	4	10	100	4	10	100	4
6	Acacia senegal	Acacia	HSPT/01/006	100/70/100	10	10	100	4	10	100	4	10	100	4
7	Acacia senegal	Acacia	HSPT/01/007	100/70/100	10	10	100	4	10	100	4	10	100	4
8	Acacia senegal	Acacia	HSPT/01/008	100/70/100	10	10	100	4	10	100	4	10	100	4
9	Acacia senegal	Acacia	HSPT/01/009	100/70/100	10	10	100	4	10	100	4	10	100	4
10	Acacia senegal	Acacia	HSPT/01/010	100/70/100	10	10	100	4	10	100	4	10	100	4
11	Acacia senegal	Acacia	HSPT/01/011	100/70/100	10	10	100	4	10	100	4	10	100	4
12	Acacia senegal	Acacia	HSPT/01/012	100/70/100	10	10	100	4	10	100	4	10	100	4
13	Acacia senegal	Acacia	HSPT/01/013	100/70/100	10	10	100	4	10	100	4	10	100	4
14	Acacia senegal	Acacia	HSPT/01/014	100/70/100	10	10	100	4	10	100	4	10	100	4
15	Acacia senegal	Acacia	HSPT/01/015	100/70/100	10	10	100	4	10	100	4	10	100	4
16	Acacia senegal	Acacia	HSPT/01/016	100/70/100	10	10	100	4	10	100	4	10	100	4
17	Acacia senegal	Acacia	HSPT/01/017	100/70/100	10	10	100	4	10	100	4	10	100	4
18	Acacia senegal	Acacia	HSPT/01/018	100/70/100	10	10	100	4	10	100	4	10	100	4
19	Acacia senegal	Acacia	HSPT/01/019	100/70/100	10	10	100	4	10	100	4	10	100	4
20	Acacia senegal	Acacia	HSPT/01/020	100/70/100	10	10	100	4	10	100	4	10	100	4
21	Acacia senegal	Acacia	HSPT/01/021	100/70/100	10	10	100	4	10	100	4	10	100	4
22	Acacia senegal	Acacia	HSPT/01/022	100/70/100	10	10	100	4	10	100	4	10	100	4
23	Acacia senegal	Acacia	HSPT/01/023	100/70/100	10	10	100	4	10	100	4	10	100	4
24	Acacia senegal	Acacia	HSPT/01/024	100/70/100	10	10	100	4	10	100	4	10	100	4
25	Acacia senegal	Acacia	HSPT/01/025	100/70/100	10	10	100	4	10	100	4	10	100	4
26	Acacia senegal	Acacia	HSPT/01/026	100/70/100	10	10	100	4	10	100	4	10	100	4
27	Acacia senegal	Acacia	HSPT/01/027	100/70/100	10	10	100	4	10	100	4	10	100	4
28	Acacia senegal	Acacia	HSPT/01/028	100/70/100	10	10	100	4	10	100	4	10	100	4
29	Acacia senegal	Acacia	HSPT/01/029	100/70/100	10	10	100	4	10	100	4	10	100	4
30	Acacia senegal	Acacia	HSPT/01/030	100/70/100	10	10	100	4	10	100	4	10	100	4
31	Acacia senegal	Acacia	HSPT/01/031	100/70/100	10	10	100	4	10	100	4	10	100	4
32	Acacia senegal	Acacia	HSPT/01/032	100/70/100	10	10	100	4	10	100	4	10	100	4
33	Acacia senegal	Acacia	HSPT/01/033	100/70/100	10	10	100	4	10	100	4	10	100	4
34	Acacia senegal	Acacia	HSPT/01/034	100/70/100	10	10	100	4	10	100	4	10	100	4
35	Acacia senegal	Acacia	HSPT/01/035	100/70/100	10	10	100	4	10	100	4	10	100	4
36	Acacia senegal	Acacia	HSPT/01/036	100/70/100	10	10	100	4	10	100	4	10	100	4
37	Acacia senegal	Acacia	HSPT/01/037	100/70/100	10	10	100	4	10	100	4	10	100	4
38	Acacia senegal	Acacia	HSPT/01/038	100/70/100	10	10	100	4	10	100	4	10	100	4
39	Acacia senegal	Acacia	HSPT/01/039	100/70/100	10	10	100	4	10	100	4	10	100	4
40	Acacia senegal	Acacia	HSPT/01/040	100/70/100	10	10	100	4	10	100	4	10	100	4
41	Acacia senegal	Acacia	HSPT/01/041	100/70/100	10	10	100	4	10	100	4	10	100	4
42	Acacia senegal	Acacia	HSPT/01/042	100/70/100	10	10	100	4	10	100	4	10	100	4
43	Acacia senegal	Acacia	HSPT/01/043	100/70/100	10	10	100	4	10	100	4	10	100	4
44	Acacia senegal	Acacia	HSPT/01/044	100/70/100	10	10	100	4	10	100	4	10	100	4
45	Acacia senegal	Acacia	HSPT/01/045	100/70/100	10	10	100	4	10	100	4	10	100	4
46	Acacia senegal	Acacia	HSPT/01/046	100/70/100	10	10	100	4	10	100	4	10	100	4
47	Acacia senegal	Acacia	HSPT/01/047	100/70/100	10	10	100	4	10	100	4	10	100	4
48	Acacia senegal	Acacia	HSPT/01/048	100/70/100	10	10	100	4	10	100	4	10	100	4
49	Acacia senegal	Acacia	HSPT/01/049	100/70/100	10	10	100	4	10	100	4	10	100	4
50	Acacia senegal	Acacia	HSPT/01/050	100/70/100	10	10	100	4	10	100	4	10	100	4
51	Acacia senegal	Acacia	HSPT/01/051	100/70/100	10	10	100	4	10	100	4	10	100	4
52	Acacia senegal	Acacia	HSPT/01/052	100/70/100	10	10	100	4	10	100	4	10	100	4
53	Acacia senegal	Acacia	HSPT/01/053	100/70/100	10	10	100	4	10	100	4	10	100	4
54	Acacia senegal	Acacia	HSPT/01/054	100/70/100	10	10	100	4	10	100	4	10	100	4
55	Acacia senegal	Acacia	HSPT/01/055	100/70/100	10	10	100	4	10	100	4	10	100	4
56	Acacia senegal	Acacia	HSPT/01/056	100/70/100	10	10	100	4	10	100	4	10	100	4
57	Acacia senegal	Acacia	HSPT/01/057	100/70/100	10	10	100	4	10	100	4	10	100	4
58	Acacia senegal	Acacia	HSPT/01/058	100/70/100	10	10	100	4	10	100	4	10	100	4
59	Acacia senegal	Acacia	HSPT/01/059	100/70/100	10	10	100	4	10	100	4	10	100	4
60	Acacia senegal	Acacia	HSPT/01/060	100/70/100	10	10	100	4	10	100	4	10	100	4
61	Acacia senegal	Acacia	HSPT/01/061	100/70/100	10	10	100	4	10	100	4	10	100	4
62	Acacia senegal	Acacia	HSPT/01/062	100/70/100	10	10	100	4	10	100	4	10	100	4
63	Acacia senegal	Acacia	HSPT/01/063	100/70/100	10	10	100	4	10	100	4	10	100	4
64	Acacia senegal	Acacia	HSPT/01/064	100/70/100	10	10	100	4	10	100	4	10	100	4
65	Acacia senegal	Acacia	HSPT/01/065	100/70/100	10	10	100	4	10	100	4	10	100	4
66	Acacia senegal	Acacia	HSPT/01/066	100/70/100	10	10	100	4	10	100	4	10	100	4
67	Acacia senegal	Acacia	HSPT/01/067	100/70/100	10	10	100	4	10	100	4	10	100	4
68	Acacia senegal	Acacia	HSPT/01/068	100/70/100	10	10	100	4	10	100	4	10	100	4
69	Acacia senegal	Acacia	HSPT/01/069	100/70/100	10	10	100	4	10	100	4	10	100	4
70	Acacia senegal	Acacia	HSPT/01/070	100/70/100	10	10	100	4	10	100	4	10	100	4
71	Acacia senegal	Acacia	HSPT/01/071	100/70/100	10	10	100	4	10	100	4	10	100	4
72	Acacia senegal	Acacia	HSPT/01/072	100/70/100	10	10	100	4	10	100	4	10	100	4
73	Acacia senegal	Acacia	HSPT/01/073	100/70/100	10	10	100	4	10	100	4	10	100	4
74	Acacia senegal	Acacia	HSPT/01/074	100/70/100	10	10	100	4	10	100	4	10	100	4
75	Acacia senegal	Acacia	HSPT/01/075	100/70/100	10	10	100	4	10	100	4	10	100	4
76	Acacia senegal	Acacia	HSPT/01/076	100/70/100	10	10	100	4	10	100	4	10	100	4
77	Acacia senegal	Acacia	HSPT/01/077	100/70/100	10	10	100	4	10	100	4	10	100	4
78	Acacia senegal	Acacia	HSPT/01/078	100/70/100	10	10	100	4	10	100	4	10	100	4
79	Acacia senegal	Acacia	HSPT/01/079	100/70/100	10	10	100	4	10	100	4	10	100	4
80	Acacia senegal	Acacia	HSPT/01/080	100/70/100	10	10	100	4	10	100	4	10	100	4
81	Acacia senegal	Acacia	HSPT/01/081	100/70/100	10	10	100	4	10	100	4	10	100	4
82	Acacia senegal	Acacia	HSPT/01/082	100/70/100	10	10	100	4	10	100	4	10	100	4
83														

Training program on Red List Assessment was organized by The Department of Botany in supported by the IQAC & the Nature Club of R. D. & S. H. National College in collaboration with IUCN SSC Western Ghats Plant Specialist Group (Red List Authority, India Chapter) on 29 & 30 July 2023.

Selected 25 students participated in this program. Three experts from Red List authority, India Chapter were the resource persons.



Sustainability initiatives booklet

