



Vidnyanvahini
फिरती प्रयोगशाळा

27th
Annual Report
2021-22

Address

'Rangdeep', Plot 20,
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Karvenagar, Pune 411052.

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Web

<https://www.vidnyanvahini.org>

- ◆ Public Charitable Trust
- ◆ Registration No. E2024, Pune
- ◆ Donations Tax exempt under section 80G

Vidnyanvahini

Pune



Activities of Vidnyanvahini



Vidnyanvahini
फिरती प्रयोगशाला



Vidnyanvahini Pune



27th Annual Report 2021-22

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Founder Member ; Mrs. Pushpa Deshpande and Mr. Madhukar Deshpande
President ; Smt. Kiran Phatak Vice - President ; Smt. Urmila Prachure
Co-ordinator ; Mr. Jayant Phalke

DAG (Dialogue Action Group) is a group of volunteers working for Vidnyanvahini

1. Ambekar Aparna	17. Navathe Chandrashekhar
2. Amrite Ulhas	18. Pande Nandan
3. Bapat Kirti	19. Pande Preetima
4. Deshpande Pradnya	20. Parchure Urmila
5. Deval Dattatray	21. Parkar Shubhangi
6. Dixit Vinayak	22. Phatak Kiran
7. Erande Vivek	23. Prabhu Ashok
8. Ghamande Satish	24. Ranade Gajanan
9. Joshi Shailaja	25. Rege Nirmala
10. Kandalgaonkar Suvarnalata	26. Sapre Achyut
11. Khasnis Sandhya	27. Sathe Anita
12. Lohotekar Jyoti	28. Shaikh Atik
13. Marathe Nikhil	29. Wagh Yashashri
14. Marathe Sucheta	30. Vartak Kalpana
15. Mhaskar Meghana	31. Yerunkar Suresh
16. Mungel Nalini	



Annual Report for the period April 2021 to March 2022

About Vidnyanvahini Mobile Science Laboratory (MSL)

Vidnyanvahini's mission is to reduce the gap in the standard of science teaching between rural and urban schools by offering rural school children means of learning science through laboratory experiments.

The flagship project of Vidnyanvahini is the Mobile Science Laboratory (MSL) into a minibus designed to accommodate storage for lab apparatus, audio visual equipment, laptops, an uninterruptible power supply powered by the engine battery. A portable generator, foldable lap-tables and a small washroom with an overhead water tank.

The backbone of Vidnyanvahini is its team of volunteers consisting of retired scientists, engineers and science teachers collectively called the Dialogue and Action group (DAG). The MSL carries a team of 6 or 7 members of DAG to the selected school on a given day. **Priority is given to small rural High schools, which lack science laboratories and do not enjoy state grants.** During a tightly organised full-day session, students perform some science experiments in groups of four to five and observe demonstrations of some others.

The theoretical principles underline the experiments are explained to them with the aid of educational audio - visual material and/or models.

Schedule of school visits is prepared in May for six months of the first term and during Diwali holidays for the second term. All the days from Monday to Friday are scheduled except holidays and exam-days.

In addition to school visits a few teacher training workshops are held to enhance science teaching skills among rural school teachers. An annual student camp seeks to expose rural students to a wide variety of science and technology related topics through presentations from subject experts and visits to factories, large laboratories, defence establishments etc. Several book bags are also circulated among schools to act as Mobile libraries.

Vidnyanvahini is a non-profit organisation constituted as a public trust which does not charge schools for our visits and operates solely on public donations.

In January 2022 Vidnyanvahini completed 27 years of service. During this period the Mobile Science Laboratory has traveled about 3,58,847kms while making 3,538 school visits and touching the lives of about 4,09,763 rural students spread over 25 districts of Maharashtra. Over the last few years Vidnyanvahini has also been venturing out of Maharashtra through school visits in the states of Arunachal Pradesh, Nagaland, Bihar, Assam, Jharkhand, Madhya Pradesh and Karnataka.



Meetings of the Dialogue and Action group (DAG)

DAG is a group of volunteers working for Vidnyanvahini. All group members of DAG meet periodically to review performance and discuss operational changes. Subject group members meet more frequently to decide about the topics and experiments. The annual meeting was utilized to review the activities of the previous year, make the plans for the activities of next year, review the list of schools and outstation visits, decide on changes to curricular and experiments etc.

This report summarises the activities of the organisation for the period of April 2021 to March 2022.

1) This academic year, we could not make our usual 'school visits' due to the Corona pandemic, in the 1st semester of the year 2020-21.

School visit activities of 2nd semester are described below

Number of Mobile Science Laboratory (MSL) visits to rural schools	34
Number of visits to unaided or partly aided schools	05
Number of students who benefited by the MSL visits	4007
Number of outstation visits lasting 5-6 days	01
Number of Kms logged by the MSL	5700

Outstation Visits

Apart from visits to schools in and around Pune (which are covered during a single day) Vidnyanvahini also undertook out-of-town visits. These visits were sponsored by the organisations/schools in those places and were used to cover rural schools in the surrounding areas. This year Vidnyanvahini undertook only one outstation visit at Tarala; in this visit 730 students benefited from 5 nearby schools.

1st semester of this year, school visits are not possible due to the Corona pandemic. We utilised this time arranging many of our subject wise meetings. This programme found to be very useful for understanding the subject including demos, more by senior members and by the newly joined members as well. In these meetings many of us presented and explained the topics that we teach. And some of us showed how to perform the experiments that we demonstrate in our school visits. On 15th August 2020, we launched a new science project on our website namely the "How and Why" section. Under this we started publishing articles explaining different concepts in Physics, Chemistry and Biology included in the curriculum from 5th std. to 10th std. In addition to these we published articles on some interesting

general science related topics. Below is the list of articles we published on our website in “How and Why” section during April 21 to March 22.

Articles in Physics

लेखाचे नांव	दिनांक
विद्युतधारेचे परिणाम व उपयोग	5 जून 2021
न्यूटनचे गतिविषयक नियम	23 जून 2021
घनता व प्लावक बल	4 ऑक्टोबर 2021

Articles in Chemistry

लेखाचे नांव	दिनांक
मूलद्रव्यांची आवर्त सारणी भाग - 1	28 एप्रिल 2021
मूलद्रव्यांची आवर्त सारणी भाग - 2	13 मे 2021
धातू व अधातू	5 सप्टेंबर 2021
धातू व अधातूंचे रासायनिक गुणधर्म	19 सप्टेंबर 2021

Articles in Biology

लेखाचे नांव	दिनांक
प्राण्यांचे वर्गीकरण	17 एप्रिल 2021
पेशीविज्ञान व जैवतंत्रज्ञान	14 जुलै 2021
आपत्ती व्यवस्थापन	1 ऑगस्ट 2021
सजीवांच्या पोषण पद्धती	20 ऑगस्ट 2021

Articles in General Science

लेखाचे नांव	दिनांक
आपल्या सूर्यमालेतील ग्रह	1 एप्रिल 2021
ऑक्सिजन प्लांट मधील ऑक्सिजन निर्मिती	26 मे 2021

On the same basis this year vigyanvahini launched a new section on our website called 'KUTUHAL'. In the 'KUTUHAL' section, we are publishing a variety of interesting science articles in brief.

List of Articles in KUTUHAL

लेखाचे नांव	दिनांक
अंडे फोडायची पैज	9 ऑगस्ट 2021
उभे राहून दाखवाल ?	22 ऑगस्ट 2021
काजवे का व कशामुळे चमकतात?	9 सप्टेंबर 2021
उंबर फुलाची गोष्ट	24 सप्टेंबर 2021
पोहता येत नाही? नो प्रोब्लेम	11 ऑक्टोबर 2021
वृक्ष वाचावा	21 ऑक्टोबर 2021
पाण्याचे फुगे का होत नाहीत?	9 नोव्हेंबर 2021
फुग्यांचा खेळ आणि बर्नोलीचा नियम भाग - 1	20 नोव्हेंबर 2021
बर्नोलीचा नियम भाग - 2	6 डिसेंबर 2021
इंद्रधनुष्य बरेच काही भाग - 1	27 डिसेंबर 2021
इंद्रधनुष्य बरेच काही भाग - 2	18 जानेवारी 2022
मुंग्यांचे जग	7 फेब्रुवारी 2022
भोवरा कसा फिरतो?	8 मार्च 2022



Virtual Lab Activity

Vidnyanvahini organised a two days workshop for teachers and students of Latur and Mahatma Phule Vidyalay Islampur, through Virtual Lab App. For this activity the valuable participation and co-operation was given by Prof. Sharvari Kulkarni (Technical associate BDG life sciences, New Delhi) and Prof. Vaibhavi Sabnis (MIT World Peace University, Pune).

Two Science Centers (Kendras)

Apart from Vidnyanvahini's Mobile Science Laboratory which travels all over Maharashtra, we thought of starting stationary science centers at few places with an objective of making science-facilities available to students studying in the nearby places around the location of the center. Accordingly, Vidnyanvahini has established two science centers with the help of the local NGOs at the following places.

1) Gramin Vidnyan Kendra at Andur

This center has been started with the help of Hello Medical Foundation. There are a number of apparatus kept at the center. Students from around 35 schools from nearby villages come to the center on the pre-planned day. The students are given proper training on the topics and afterwards they perform hands -on activity in physics, chemistry and biology. Students from each school visit the center four times in an academic year.

There are more activities such as competitions on essay writing, elocution, project making, camp of two days to celebrate science day every year etc. are the highlights of various activities. Presently Durgadevi Charitable Trust provides financial support to the center. They also assist some students by awarding scholarships.

2) Islampur Vidnyan Kendra

We started this Kendra on a similar basis as the above Kendra. Here students from schools come to the Kendra to perform experiments in physics, chemistry and biology as is being done at Andur while some schools are allowed to take the material to their schools, on returnable basis, whenever they teach a particular topic. In addition to these, our volunteers either from Pune or devoted teachers in and around Islampur, who have come forward to work for the center honorarily, visit schools carrying the material. Dr. Anil Mali has provided three rooms in his hospital / bungalow for use of the centre's activities. Mr. Vinayak Dixit, one of the DAG members is taking an active role in the activities of the center.

Activity of this center is also not possible due to corona in the 1st semester. In the 2nd semester 137 students of four nearby schools visited the center.



Mr. Vinit Waghe sir of Chiplun arranging experiments in many nearby schools on behalf of Vidnyanvahini.

Rajgurunagar Activities

A Joint educational program for primary school students by 'Mumbai Mata Balak Sangopan Sanstha' and Vidnyanvahini has been started at Rajgurunagar.

The objective of the program is to create interest, curiosity in science and to develop scientific attitude in students while learning. Main idea and aim under this scheme is to reach the students living in remote areas. School teachers are involved in the program of making students understand science through the interesting simple experiments. Students get hands - on experiments under teacher's guidance. Students are encouraged to ask questions and discuss the experiments in order to achieve this Vidnyanvahini has provided sets of different scientific experiments and gadgets.

This year due to the Corona pandemic, activity at Rajgurunagar could not be conducted.

Vidnyanvahini Shibir

The shibir is organised in Pune for 10th grade students from various rural schools in Maharashtra since 1996. The camp attended by students to widen their knowledge horizon by exposing them to a diverse range of experiences through visits to industries, defence units, laboratories, lectures from experts, introduction to activities such as origami, yoga, archery etc. This year Vidnyanvahini could not organise this shibir activity due to the Corona pandemic.

Mobile Library

To encourage the habit of reading among students, Vidnyanvahini has been circulating book bags among schools. Each bag contains about forty books on science and related subjects and kept in a school for a term. So far the books were for 8th to 10th standards. But from 2020 we have included some books for 5th to 7th standards also.

Obituary

We lost our very active member **Shri Mukud Bhadbhade**. He was a textile engineer by profession. He joined Vidnyanvahini in very early stages of Vidnyanvahini. A jovial, lively and very cordial person who liked teaching children. He would allow children to solve math puzzles by playing interesting group games. He also interspersed his subject with daily life examples while teaching thereby making it interesting. His unique style of teaching was very effective and liked by students as well.

Benefactors

Numerous donors and well-wishers have been helping Vidnyanvahini through contributions in cash and in kind. We Are grateful for their generous gesture and the trust they have reposed in Vidnyanvahini. Some of the prominent benefactors are mentioned below.

- M/S Saraswat Hitwardhak Mandal, Mumbai have provided staunch support for many years by sponsoring school visits and teachers workshops in Ranthagiri and Raigad district of the Kokan belt in the State.
- Shri Amber Naik and his associates have been preparing the financial accounts and audit report of Vidnyanvahini at no cost to the Trust for many years now.
- The Vidyarthi Sahayak Samiti Pune has helped by providing lodging facility at their hostel at concessional charges for Vidnyanvahini's Vidyan Shibir year after year.
- In addition to the a few Indian Corporates and Charitable Trust as well as many individual Donors have made generous financial donations to the Vidnyanvahini. A list of donors is enclosed.
- Mr. Abhijeet Bora of Genetic Healthcare Pvt. Ltd. has been sponsoring our students camp.
- Mr. Ajit Phatak has been assisting us in designing charts, tables etc. whenever we require, devoting his valuable time for Vignanvahini without any cost to us. He may be regarded as one of the members only.
- Our volunteers Ms Pushpa Palkar, Mr Ulhas Vaishyampayan, Ms. Malutai Deulgaonkar, Mr Manohar Dixit, Ms Sushama Kelkar, Mr. Govind Gadgil who are not active now in Vidnyanvahini 's activities due to health or other problems are regularly in touch with us and are eager to understand/know the progress of the organisation.
- Mr. Vinit Kenjale has helped us by providing a good place for parking our MSL vehicle free of any charge.
- Mr. Ashok Prabhu has been helping us in many ways such as repairing PPTs and providing guidance from time to time.
- Mr. Harsulkar donated many books on various subjects to our Islampur center.
- Mr. Mhaskar Makarand and Rasika Kale-Kelkar have been managing Vidnyanvahini 's website very well all long.
- Mr. Lohotekar helped us with the layout and design of this Annual Report.
- Dr. Madhukar and Pushpa Deshpande, both founder members of Vidnyanvahini, have been our guide from the beginning.



List of Donors

One lakh and above:

1. Rama Purushottam Foundation.(Mr. Dada Deshpande)

Twenty five thousand and above

1. Mr. Ajit Phatak.
2. Smt. Sucheta Marathe
3. . Mr. Anil Alvani.

Twenty thousand and above

1. Jayashree Raman
2. Sahavardhan Samuha

Ten Thousand

1. Mr. Nikhil Marathe.
2. Mr. Shashidhar Erande.
3. Mr. Namdev Sanlunkhe. (Research Lab.Fine Chem. Industries.)
4. Bhogawati Sanskruti Mandal.

Five Thousand and less

1. Smt. Urmila Parchure.
2. Smt. Vasudha Kulkarni.
3. Inner Wheel Club Pune.
4. Smt. Suvarnalata Kandalgaokar.
5. Mr. Chandrashekhar Navathe.
6. Mr. Sameer Mane.
7. Smt. Sushama Thakar.
8. Smt. Nalini Mungel.
9. Members of V.V.
- 10 .Smt.Sulbha Bhilawadikar.
11. Smt. Kiran Phatak.
12. Mr. Gajanan Ranade.
13. Smt. Laxmi Raman.
14. Mr. Sarang Lonkar.
15. Padmavati Vidya Mandir.
16. Navamaharashtra Vidyalay.
17. Mr. Dattatray Dewal.



AUDIT REPORT

THE BOMBAY PUBLIC TRUSTS ACT, 1950
SCHEDULE VIII
Name of the Trust : Vidnyan Vahini
Registration Number: E - 2024 / Pune
Balance Sheet as at 31st March 2022

Funds and Liabilities		Amount(Rs)	Fixed Assets		Amount(Rs)
Trusts Funds or Corpus		96,19,970	Immovable Properties - (at cost)		11,33,240
Bal. as per last Balance Sheet	96,19,970		Bal. as per last Balance Sheet	11,33,240	
Add: During the year	-		Additions during the year	-	
			Less : Sales during the year	-	
			Less : Depreciation upto date	-	
Other Earmarked Funds (Schedule 2)		63,494	Movable Fixed Assets		
(Created under the provisions of the Trust deed or scheme or out of the Income)			Bal. as per last Balance Sheet	3,57,199	
Opening Balance	63,494		Additions during the year	-	
ADD: During the Year	-		Less : Sales during the year	-	
Less: Transfer	-		Less : Depreciation upto date	58,635	2,98,564
Loans (Secured or Unsecured)			Investments		56,38,232
From Trustees			Bank fixed Deposits	56,38,232	
From Others					
Add : During the year					
Liabilities		9,100	Loans (Secured or Unsecured) :		
For Expenses			Loan Scholarships	-	
For Advances			Other Loans	-	
For Rent and other deposits					
For Sundry Credit Balance			Advances		
For Provision	9,100		To TDS	2,66,940	
			To Trustees	-	
			To Employees	-	
			To Contractors	-	
			To Others	10,000	
			To Deposits	11,00,000	13,76,940
Income and Expenditure Account			Income Outstanding		
Bal. as per last Balance Sheet	-		Interest Receivable - Refund	1,706	
Less : Appropriation if any	-		Interest	42,680	
Add : Surplus	-		Other Income - cheque in hand	20,000	64,386
Less : Deficit	-				
Total (Rs.)		96,92,564	Cash & Bank Balances		
			(a) In Current / Saving account	7,75,626	
			(b) Cash Balance	24,023	7,99,649
			Grant Receivable (From ICSSR)		
			Income and Expenditure Account		
			Bal. as per last Balance Sheet	4,18,342	
			Less : Surplus	36,789	
			Add : Deficit	-	3,81,553
			Total (Rs.)		96,92,564

For **Ambar Naik & Associates**
Chartered Accountants
ICAI FRN - 137450W

Ambar Naik

Ambar S Naik
Membership No. 157493
Place : Pune
Date : 25/09/2022
UDIN : 22157493AUURQA9731

For **Vidnyan Vahini**

K. H. L. L. L. *A. S. R. R. R.*

Trustee Trustee

Place : Pune Place : Pune
Date : 25/09/2022 Date : 25/09/2022

Vidnyanvahini, Pune
"Rangdeep" 20 Natraj Society
Lane No:10, Karvenagar
Pune 411052



Vidnyanvahini

27th Annual Report 2021-22

THE BOMBAY PUBLIC TRUSTS ACT, 1950

SCHEDULE IX
Name of the Trust : Vidnyan Vahini

Registration Number: E-2024/Pune

Income and Expenditure Account for the year ended on 31st March 2022

Particulars	Amount(Rs)	Particulars	Amount(Rs)
To Expenditure in respect of properties:-	83,050	By Donations in cash or kind	4,75,100
Rates, Taxes, Cess	-	By Interest [accrued]	3,22,247
Repairs and Maintenance	23,532	On Securities	-
Depreciation	59,518	On Bank Fd	2,87,220
RTO Taxes paid	-	On Bank Account (Saving Bank)	25,536
Vehicle Insurance	-	On Int Income Tax Refund	2,324
		On FCRA Saving	7,157
Depreciation [by way of provision or adjustment]	-	By Misc Income	22
To Establishment Expenses	-		
To Remuneration to Trustees	-		
To Remuneration [in case of a math] to the head of the math including his household expenditure, if any	-		
To Legal Expenses	874		
To Audit Fees	36,042		
To Contribution and Fees	-		
To Amount written off	-		
(a) Bad Debts	-		
(b) Loan Scholarships	-		
(c) Irrecoverable Items	-		
(d) Other items	-		
To Miscellaneous Expenses	78,697		
To Expenditure on objects of the trust	5,61,917		
(a) Religious			
(b) Educational	5,61,917		
(c) Medical Relief			
(d) Relief of poverty			
(e) Other Charitable objects			
To Surplus carried to Balance Sheet	36,769	By Transfers from Reserve	-
		By Deficit carried over to Balance Sheet	-
Total (Rs.)	7,97,369	Total (Rs.)	7,97,369

For **Ambar Naik & Associates**
Chartered Accountants
ICAI FRN - 137450W

Ambar S Naik
Membership No. 157493
Place: Pune
Date: 25/09/2022
UDIN: 22157493/UURQA9731

For **Vidnyan Vahini**

Trustee
Place: Pune
Date: 25/09/2022

Trustee
Place: Pune
Date: 25/09/2022

Vidnyanvahini, Pune
"Rangdeep" 20 Natraj Society
Lane No:10, Karvenagar
Pune 411052

Activities of Vidnyanvahini



Vidnyanvahini
फिरती प्रयोगशाला

जोड गादुनी स्वजनांची अन् मातृभूमीची
मनी घेऊनी पुकच छेच परतलो ही रंपती
गवोगावी उजमेत आवे ज्ञानज्योत पुक
अद्भुत संवेधाना वेता हातो हा फलक
"पुढेच जाय-ये!"

गोवा मेळे खरे सोबती समनि-वसंचे
वातभुवानी हास्य उमरले कुतूहलपूर्तीचे
खरती व्हाके होम परी व्यास मनी एक
मम ज्ञानाचा इथेच व्हावा नव्यसुरा उपयोज

समाज-सुख वे फेडाथोने तवर हे विज्ञानव्रती
अरितकेने कितीजनांना समाजकार्यप्रती
घोरे घातुनी दिले तपीना सलीमही शक्ति
'आम्ही' -वाल्दू हा नसा खरे एक मजे मृष्टती

संध्या-सुषा राहून येती नेमाने भवती
शिणलेल्या मना-इरीश हवी आता विज्ञांती
निषेध देतो आम्ही आता स्वस्थ असणे किती
फलक आपुला जसेल आता सैनादकांसाठी
"पुढेच जाय-ये, आम्हा पुढेच जाय-ये!"

गिर्वंदेपायन

Activities of Vidnyanvahini



Vidnyanvahini
फिरती प्रयोगशाळा

