



संवाद आणि कृतिगट

## Vidnyanvahini फिरती प्रयोगशाला



## Vidnyanvahini, Pune 26<sup>th</sup> Annual Report 2020-21

**Address :** 'Rangdeep', Plot 20, Natraj Housing Society, Karvenagar, Pune 411052. **Mobile :** + 91 9404611063  
**Email :** ka704phatak@gmail.com ♦ madhu36@yahoo.com ♦ urmila.45.sp@gmail.com  
**Web :** <https://www.vidnyanvahini.org>

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



**Shri Sharad Godse**

President Vidnyanvahini, left for his heavenly abode on 8th March 2021.

He was 81 and was active till the last moment !

Vidnyanvahini is an NGO, active for last 25 years.

This organization owns a mobile science laboratory through which the Volunteers of the organization provide hands-on education to students in remote areas.

Along with his able leadership and guidance, he had a unique teaching method (playful and interesting) which was immensely liked by students and teachers.

His dedication towards the organization was on another level.

He had exceptional organizational skills which helped Vidnyanvahini in organizing the school visits, conducting summer camps and all other activities.

He worked towards covering larger bodywork of the organization and ended up spreading the work beyond Maharashtra.

Vidnyanvahini's work areas include Gujarat, Bihar, Arunachal Pradesh, Karnataka, Nagaland etc.

Vidnyanvahini Volunteers vow to take his work ahead with equal dedication as a tribute to Shri Godse Sir.

# Vidnyanvahini Pune



## 26<sup>th</sup> Annual Report 2020-21

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Founder Members : **Pushpa Deshpande** and **Madhukar Deshpande**

President : **Smt. Kiran Phatak**

Vice- President : **Smt. Urmila Parchure**

### **Members of Dialogue and Action Group( DAG )**

DAG is a group of volunteers working for vidnyanvahini.

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





## 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 into (MSL) a minibus designed to accommodate storage for lab apparatus, audio visual equipments, laptops, an uninterruptible power supply powered by the engine battery, a portable generator, foldable lab-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 laboratory 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 other experiments.

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, 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, defense establishments etc. Several book-bags are also circulated among schools to act as Mobile libraries. Vidnyanvahini is a '*not for profit organisation*' constituted as a public trust which does not charge schools for our visits and operates solely on public donations.

### 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 is 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 curricula and experiments etc.



**Two science Centres (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 Anadur 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 honourarily, visit schools carrying the material. Dr. Anil Mali has provided three rooms in his hospital / bungalow for use of the centre's activities.

We closed the Ratangiri Rajapur center and all the apparatus handed over to Mr. Vinit Waghe Sir of Chiplun. Using these apparatus he conducted the 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 report summarizes the activities of the organization for the period of April 2020 to March 2021.**

This academic year, we could not make our usual 'School Visits' due to the Corona pandemic.

1) We utilized this time by arranging many of our subject wise meetings. This program is found to be very useful for understanding the subject including demos, more by our volunteers, senior members and by the newly joined volunteers as well. In these meetings many of us presented and explained the topics that we teach in schools and some of us showed how to perform the experiments that we demonstrated in our school visits.

2) Our usual program of 'School Visits' couldn't be conducted this year. So, on 15th August 2020, we launched a new science project on our website namely 'How and Why' section, which was suggested by Godse Sir. 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 have new articles on some interesting general science related topics, which are not covered in the curriculum but are very interesting. The goal of this project is to help children, understand the concepts with simple worded articles using neat and labeled diagrams supported with day to day life examples.

**Feedbacks**

**Dr. Jyoti Mahajan, H.O.D.Science,  
Huzurpaga, Laxmi Road, Pune.**

खूपच स्तुत्य उपक्रम आहे तुमचा.

१० वी चे नुकतेच शिकविलेले पूर्ण

गुरुत्वाकर्षण प्रकरण अतिशय उत्तम केले आहे.

सर्व चित्रे, संकल्पना स्पष्टीकरण खूपच छान.

सगळ्या वर्गांच्या गृपवर पण पाठवले.

**Sarole Madhyamik Vidyalay, Sarole,  
Tal. Bhor, District Pune.**

This is excellent pathfinder project for students as well as teachers.

The organizers have obviously put lot of efforts into it. It is being run very well even without any assistance from the government.



Below is the list of some of the topics we covered in this project during August 2020 to March 2021.

### Articles in Physics

Sr. No.	Date of the article	Title of the article
1	15 Aug.2020	Gravitation.
2	18 Nov.2020	Electricity - some concepts.
3	28 Nov.2020	Ohm's Law.
4	15 Feb.2021	Newton's Laws of Motion.

### Articles in Chemistry

Sr. No.	Date of the article	Title of the article
1	9 Sep.2020	Introduction to Chemistry.
2	28 Oct.2020	Nature of Matter - Part 1
3	4 Nov.2020	Nature of Matter - Part 2
4	25 Dec.2020	Structure of Atom - Part 1
5	8 Jan. 2021	Structure of Atom - Part 2

### Articles in Biology

Sr. No.	Date of the article	Title of the article
1	16 Sep.2020	Heredity and Evolution - Part 1
2	22 Sep.2020	Heredity and Evolution - Part 2
3	10 Oct. 2020	Heredity and Evolution - Part 3
4	16 Dec. 2020	Plant Classification
5	14 Jan.2021	Animal Classification - Part 1
6	28 Jan.2021	Animal Classification - Part 2
7	8 Mar.2021	Animal Classification - Part 3



### Articles in General Science

Sr. No.	Date of the article	Title of the article
1	31 Aug.2020	Nuclear Power
2	23 Oct.2020	वस्त्रप्रावरणाची निवड व देखभाल
3	10 Nov.2020	या नावामागे दडलय काय?
4	8 Dec.2020	नोबेल पारितोषिक
5	2 Jan.2021	The relative size of the particles
6	5 Feb.2021	दूध एक पूर्णान्न
7	18 Mar.2021	ध्यासपर्व

When we review the statistical analysis of visitors to the website it is clear that the viewership is on the rise at the national as well as international level. This pattern is observed every month.

3) Vidnyanvahini's then president declared '**All India Video Elocution competition**' for school students in the late 2020. The number of students participated in the competition was very less than expected, may be due to Corona. So we waited long a time for more participants to participate. The sudden demise of Godse Sir in March 2021, greatly affected the work of competition result. Just a few months back we declared and displayed the result on Vidnyanvahini's website.

For this competition we announced a nominal entrance fee for the participants.

The report of Vidnyanvahini all India video Elocution Competition is given below:

Number of applicants : 61

Number of videos received : 58

Total prizes distributed in different categories : 11

Categories are as follows :

Std 1st to 4th -- 3 prizes

Std 5th to 7th -- 3 prizes

Std 8th to 10th -- 3 prizes

Std 4th special -- 2 prizes



### Other Activities:

Ashok Rupner is a former member of Vidnyanvahini and is now working at IISER Pune as a senior teaching associate at the Science Activity Centre, an outreach centre for school students and teachers.

Ashok conducts various live sessions on the YouTube channel. Vidnyanvahini's volunteers have translated these in Marathi. Many Marathi medium school teachers and students use these activities as they are available in their mother tongue.

These activities can be found on the following link.

<https://sites.google.com/acads.iiserpune.ac.in/iiserp-scienceactivitycentre/%E0%A4%AE%E0%A4%B0%E0%A4%A0%E0%A4%A4%E0%A4%AA%E0%A4%B0%E0%A4%AF%E0%A4%97>

### Vidnyanvahini Shibir:

Every year the Shibir is organised in Pune for 10th grade students from various rural schools in Maharashtra since 1996. The camp attended by students seeks to widen their knowledge horizon by exposing them to a diverse range of experiences through visits to industries, defense units, laboratories, lectures from experts, in addition introduction to activities such as origami, yoga, archery etc. are also conducted. This year Vidnyanvahini could not organise this Shibir activity due to 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 other school related subject. The bags are kept in a school for entire term.

### Feedback

#### **Bhauseheb Raut Vidyamandir, Kashele, Tal. Karjat Dist. Raigad.**

The students will certainly benefit from watching the experiments from close proximity and your cooperation. Even the teachers found the event very beneficial.





### List of donors: 2020-2021

#### 1) Rupees 1 lakh and above

- i) Rama Purushottam foundation
- ii) Late Vasant Mangala Kulkarni memorial trust
- iii) India Development Service (IDS) Chicago USA

#### 2) Rupees 20000/- and above

- i) Mr. Anand Sharangpani
- ii) Mr. Yadunath Deshpande
- iii) Mr. Ravindra Deodhar
- iv) Mrs. Jyoti Tamboli.(USA)

#### 3) Rupees 10,000/- and above

- i) Mr. Umesh Joglekar

#### 4) Rupees 5000/- and above

- i) Junior Wheel Club Poona Midtown
- ii) Mr. Anoopsingh Rajput
- iii) Mr. Priyadarshan Phaltankar
- iv) Mr. Rajpathak ( USA)
- v) Mrs. Sudha Kulkarni
- vi) Mr. D.D.Dewal

#### 5) Rupees 1000 /-and above

- i) Mrs. Sulbha Bhilwadikar
- ii) Mrs. Nalini Mungel
- iii) Mrs. Sujata Limaye
- iv) Mr. Shyam Joshi
- v) Mr. Sarang Lonkar
- vi) Mr. Pradeep Phatak
- vii) Dr. Mysorekar

#### 6) Rupees 500 /-and above

- i) Mrs. Urmila Talwalkar

### Feedback

मी 'विद्युत, काही संकल्पना' हा संपूर्ण लेख बारकाईने वाचला. त्यातील सर्व संकल्पना अतिशय साध्या सोप्या भाषेमध्ये व्यवहारातील परिचयाची उदाहरणे देऊन सोप्या करून सांगितल्या आहेत. त्यामुळे विद्यार्थी व शिक्षक यांना खूप चांगल्या पद्धतीने समजतील याची मला खात्री वाटते. त्याच बरोबर रंगीत आकृत्यांच्या मदतीने प्रत्येक संबोधन स्पष्ट होण्यासाठी मदत होते. विशेष म्हणजे विद्यार्थी आणि शिक्षक यांना सहज समजेल अशा परिचयाच्या उदाहरणांचा उपयोग करून संबोधन स्पष्ट करण्याचा प्रयत्न केलेला आहे. दैनंदिन परिचयाची उदाहरणे असल्यामुळे त्याबद्दलची जवळीक वाढून विषय समजण्यास सोपा होत आहे. या पाठीमागे विज्ञानवाहिनीची प्रचंड मेहनत नक्कीच आहे. या सर्व टीमचे आमच्या **श्री सद्गुरू समर्थ हंबीराव विद्यालय**, टाकळी भीमा, तालुका दौंड, यांच्या वतीने मनापासून आभार.



### Benefactors

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

- **M/S Saraswt Hitawardhak Mandal**, Mumbai have provided staunch support for many years by sponsoring school visits and teachers' workshops in Ratnagiri and Raigad district of the Kokan belt in the State.
- **Shri Amber Naik** and his associates have been preparing the financial accounts and audit reports 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 Vidyarthi Shibir year after year.
- In addition to the above a few Indian corporates and charitable trust as well as many individual donors have made generous financial donations to Vidnyanvahini. A list of donors is enclosed.
- **Mr. Abhijeet Bora** of Genetic Health Care 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 Vidnyanvahini 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 the health or other problems are regularly active now in touch with us and are eager to understand/know the progress of the organization.
- **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. Harshulkar** donated many books on variety of subjects to our Islampur Kendra.
- **Mr. Mhaiskar Makarand** and **Rasika Kale-Kelkar** have been managing Vidnyanvahini's website verywell all along.
- **Mr. Lohotekar** helped us for layout and design of this Annual Report .
- **Dr. Madhukar** and **Pushpa Deshpande** both founder members of Vidnyanvahini' have been our guide from the beginning.

**THE BOMBAY PUBLIC TRUSTS ACT, 1950**

**SCHEDULE IX**

**Name of the Trust : Vidnyan Vahini**

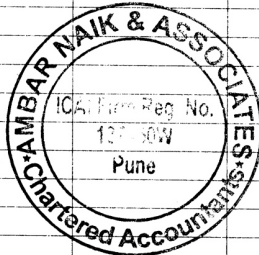
**Registration Number: E-2024/Pune**

**Income and Expenditure Account for the year ended on 31st March 2021**

Particulars	Amount(Rs)	Particulars	Amount(Rs)
To Expenditure in respect of properties:-	1,13,232	By Donations is cash or kind	6,32,785
Rates, Taxes, Cess	-	By Interest [accrued]	3,69,083
Repairs and Maintenance	71,324	On Securities	-
Depreciation	11,708	On Bank Fds	3,51,086
RTO Taxes paid	300	On Loans	-
Vehicle Insurance	29,900	On Bank Account (Saving Bank )	13,051
		On Int Income Tax Refund	-
		On FCRA Saving	4,946
Depreciation [by way of provision or adjustment]	-	By Book Sales	-
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	-		
To Audit Fees	-		
To Contribution and Fees	-		
To Amount written off			
(a) Bad Debts	-		
(b) Loan Scholarships	-		
(c) Irrecoverable Items	-		
(d) Other items	-		
To Miscellaneous Expenses	650		
To Expenditure on objects of the trust	4,97,825		
(a) Religious			
(b) Educational	4,97,825		
( Schedule 7)			
(c) Medical Relief			
(d) Relief of poverty			
(e) Other Charitable objects		By Transfers from Reserve	
To Surplus carried to Balance Sheet	3,90,161	By Deficit carried over to Balance Sheet	-
<b>Total (Rs.)</b>	<b>10,01,868</b>	<b>Total (Rs.)</b>	<b>10,01,868</b>

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

*Ambar Naik*  
Ambar S Naik  
Membership No. 157493  
Place : Pune  
Date : 11/09/2021  
UDIN : 21157493AAAADU7072



For **Vidnyan Vahini**

*K. S. L. K.*  
Trustee

Place: Pune  
Date : 11/09/2021

*V. S. K.*  
Trustee

Place: Pune  
Date : 11/09/2021

**विश्वस्त विश्वस्त**  
**विज्ञानवाहिनी, पुणे**  
पारंपरिक न्याय मंडळी क. र. २०२४

**THE BOMBAY PUBLIC TRUSTS ACT, 1950**

**SCHEDULE VIII**

**Name of the Trust : Vidnyan Vahini**

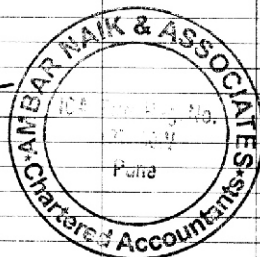
**Registration Number: E - 2024 / Pune**

**Balance Sheet as at 31st March 2021**

<b>Funds and Liabilities</b>	<b>Amount(Rs)</b>	<b>Fixed Assets</b>	<b>Amount(Rs)</b>
<b>Trusts Funds or Corpus</b>	<b>96,19,970</b>	<b>Immovable Properties - (at cost)</b>	<b>11,33,240</b>
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	-
<b>Other Earmarked Funds (Schedule 2)</b>	<b>63,494</b>	<b>Movable Fixed Assets</b>	
(Created under the provisions of the Trust deed or scheme or out of the Income)		Bal. as per last Balance Sheet	4,28,523
Opening Balance	63,494	Additions during the year	-
ADD: During the Year	-	Less : Sales during the year	-
Less: Transfer	-	Less : Depreciation upto date	71,324
			3,57,199
<b>Loans (Secured or Unsecured)</b>		<b>Investments</b>	<b>54,35,414</b>
From Trustees		Bank fixed Deposits	54,35,414
From Others			
Add : During the year			
<b>Liabilities</b>	<b>10,000</b>	<b>Loans (Secured or Unsecured) :</b>	
For Expenses	-	Loan Scholarships	-
For Advances		Other Loans	-
For Rent and other deposits			
For Sundry Credit Balance		<b>Advances</b>	
For Provision	10,000	To TDS	2,77,245
		To Trustees	-
		To Employees	-
		To Contractors	-
		To Others	5,000
		To Deposits	11,00,000
			13,82,245
		<b>Income Outstanding</b>	
		Interest Receivable - Refund	1,706
		Interest	42,680
		Other Income - cheque in hand	20,000
			64,386
		<b>Cash &amp; Bank Balances</b>	
		(a) In Current / Saving account	8,86,446
		(b) Cash Balance	16,192
			9,02,638
		<b>Grant Receivable ( From ICSSR )</b>	
<b>Income and Expenditure Account</b>		<b>Income and Expenditure Account</b>	
Bal. as per last Balance Sheet	-	Bal. as per last Balance Sheet	8,08,503
Less : Appropriation if any	-	Less : Surplus	3,90,161
Add : Surplus	-	Add : Deficit	-
Less : Deficit	-		4,18,343
<b>Total (Rs.)</b>	<b>96,93,464</b>	<b>Total (Rs.)</b>	<b>96,93,464</b>

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

*Ambar Naik*  
Ambar S Naik  
Membership No. 157493  
Place : Pune  
Date : 11/09/2021  
UDIN : 21157493AAAADU7072



For **Vidnyan Vahini**

Trustee

Place : Pune  
Date : 11/09/2021

*K. Phute*  
विश्वस्त

Trustee

Place : Pune  
Date : 11/09/2021

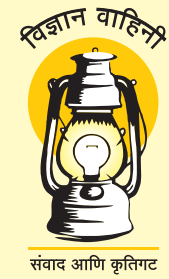
*V. Giramde*  
विश्वस्त

**विद्यनवाहिनी, पुणे**

पुणे नगरपालिका, पुणे



# Activities of Vidnyanvahini



**Vidnyanvahini**  
**फिरती प्रयोगशाळा**

## Feedback

Name: VINAYAK KUSHABA WADGHULE

Email: [vinayakwadghule@gmail.com](mailto:vinayakwadghule@gmail.com)

Location: HINGANGOAN SHINDEWADI HAVELI

Message: सर श्री डी आकृत्या खूप छान तसेच एक अणू द्वी  
आणू जोडणी, निलंबन कलिल इ घटक पण खूप सुंदर पणे मांडणी.  
सर माझ्या सुध्दा काही संकल्पना लेख वाटल्यामुळे दृढ झाल्या. खूप  
खूप धन्यवाद

This is the message received from Wadghule sir.





# Working at Schools



संवाद आणि कृतिगट

**Vidnyanvahini**  
फिरती प्रयोगशाळा

