



Annual Report

Year 2017-18



Monghiben Balvihar trust

Shri Balvant Parekh Science City

Ambawadi, Bhavnagar

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Introduction:

Shri Balvant Parekh Science city, Bhavnagar is working for popularizing the science and technology among the students in the schools of rural areas and in the urban area through various programs and activities at Vigyan Nagari.

We organized various program, event, and activities for students, teachers and local community during the year 2017-18. All programs are based on to focus a scientific temperament, approach and generate interest among community, mostly students and teachers.

Major Programs: Science city runs a various programs like, Vigyan Safar, Mobile science van, Indian Science Olympiad and Indian Cyber Olympiad (ISO-ICO Olympiad), Vocational training program (VTP), Science express and other scientific events as per planned.

1. Vigyan Safar:

This is a one of the major program of the Vigyan Nagari to focus on scientific temperament, approach and generate the interest in Science and math. Local city and rural area of Bhavnagar district - government and private schools visited our center. This program designed for standard 5 to 10 students during school time (8 to 12 & 12.30 to 5). Students performed curriculum base experiments in Physics, Chemistry and Biology laboratory; visit Science Museum, Math Lab, Educational Movie- 3D also, Visit library, Khajano, Brain gym, Natraj Park and Solar Energy Park. This program is run as per the earlier discussion and ideas of science panelists. Science panels members are Dr. Nalin Pandit (Ex. Director GCERT, Gandhinagar), scientist, education department officials, Science coordinators from the schools and science city.

During the year 2017-18, 14449 students from the 219 Bhavnagar Municipal and Government schools made visit to the science city and participated in the Vigyan Safar Program. As part of popularizing science city our staff members went to 18 various schools of Bhavnagar city. In this program 2120 students have benefited..



Students perform Laboratory work



School samelan to introduction of science city work



Students observed Biology Laboratory



students learned from solar energy park

2. Science Mobile Van:

City students benefited a science city programs but in rural area of Bhavnagar students were got very less benefit of science city. In rural area school has need to require the scientific approach and temperament also. We create an interest in science-math and reduce a fear of these subjects in students. We have two mobile vans to enrich the students of Bhavnagar district. The two mobile vans had helped us in increased the coverage area. The mobile van is well equipped with new interactive prototype models, puzzles and new format for delivery the demonstration and experiments was formed. The Science mobile van visited the panchayat schools in various taluka of the Bhavnagar district targeting the std 5 to std 8 students. The activities are conducted free of cost at the schools. Pidilite industries gave a fund to run this program. Special letter is issued from the DPEO, Bhavnagar for taking the mobile van to the schools. Both science mobile van covered – 4 taluka (Bhavnagar, Shior, Ghoga, Palitana, of Bhavnagar during the year 2017-18. In this program benefited 39,359 students of 281 schools of Bhavnagar District.



Sci-Math Model Demonstration



students paly with sciecn model



Educational movie

- We send a mobile van Aryam school Surat. We organized a science, math and Khajana stall for students. Approx 300 visitor were participated in our stall.
- We had participated in science event of Gurukul School at Rajcoat. We organized a science, math and Khajana stall for students for 3 days. Approx 3450 visitor were participated in our stall.

3. Indian Science Olympiad (ISO-10)

For developing the student's intellectuality and to prepare them for taking up any competitive exams the Science City, Bhavnagar is conducting the competitive exams in the field of science named as 'India Science Olympiad' running successfully for last 9 years. During the year 2017-18, Indian Science Olympiad (ISO-11) was conducted on date 26 November 2017 across Gujarat in which 16534 students

from 202 schools of 28 districts of Gujarati medium and 2024 students from 26 schools of 14 districts of English medium participated. The winners received scholarship of Rs. 4, 25,100/- and certificate of participation. The National level winner receives the science express magazine subscription free of cost for one year.

ISO student's registration Gujarati Medium

SR.NO	DISTRICT	NO OF SCHOOLS	NO OF PARTICIPATIONS
1	AHMEDABAD	7	667
2	AMRELI	9	527
3	ANAND	4	348
4	ARRAVALI	2	122
5	BANASKANTHA	6	423
6	BHARUCH	12	915
7	BHAVNAGAR	42	2219
8	BOTAD	10	943
9	CHHOTAUDAIPUR	1	32
10	DAHOD	2	485
11	DANG	1	104
12	DEVBHUMI DWARKA	3	256
13	GANDHINAGAR	2	574
14	GIR SOMNATH- JUNAGADH	17	831
15	JAMNAGAR	4	312
16	KACHCHH	4	331
17	KHEDA	4	347
18	MEHSANA	4	519
19	MAHISAGAR	5	450
20	MAHUVA	1	497
21	NAVSARI	1	129
22	RAJKOT	27	1982
23	PATAN	1	319
24	SABARKANTHA	5	154
25	SURAT	11	1711
26	SURENDRANAGAR	7	418
27	VADODARA	7	693
28	VAPI-VALSAD	3	226
GRAND TOTAL		202	16534

ISO student's registration English Medium			
SR.NO	DISTRICT	NO OF SCHOOLS	NO OF PARTICIPATIONS
1	AHMEDABAD	1	332
2	AMRELI	1	88
3	ARRAVALI	1	130
4	BHARUCH	2	120
5	BHAVNAGAR	5	163
6	BOTAD	1	33
7	JAMNAGAR	1	81
8	JUNAGADH	1	178
9	KACHCHH	1	79
10	KHEDA	1	51
11	MEHSANA	1	199
12	RAJKOT	7	339
13	SABARKANTHA	2	132
14	SURENDRANAGAR	1	99
GRAND TOTAL		26	2024

Indian Cyber Olympiad (ICO-5)

The activity started the form 2013 and is testing the ability and knowledge of the students in the field of computers and internet technology. During the year 2017-18 the ICO- 5 was conducted on 26 November 2017 across the Gujarat state in which 5289 students from Gujarati medium participated from 100 schools of 28 districts of Gujarat. The National level winner receives the science express magazine subscription free of cost for one year.

ICO student's registration Gujarati Medium

SR.NO	DISTRICT	NO OF SCHOOLS	NO OF PARTICIPATIONS
1	AHMEDABAD	3	475
2	AMRELI	4	226
3	ANAND	2	170
4	ARRAVALI	2	155
5	BANASKANTHA	3	151
6	BHARUCH	4	135
7	BHAVNAGAR	21	505
8	BOTAD	5	286
9	CHHOTAUDAIPUR	0	0

SR.NO	DISTRICT	NO OF SCHOOLS	NO OF PARTICIPATIONS
10	DAHOD	1	30
11	DANG	1	35
12	DEVBHUMI DWARKA	1	133
13	GANDHINAGAR	0	0
14	GIR SOMNATH-JUNAGADH	7	205
15	JAMNAGAR	1	127
16	KACHCHH	1	52
17	KHEDA	2	174
18	MEHSANA	2	102
19	MAHISAGAR	5	204
20	MAHUVA	1	119
21	NAVSARI	1	136
22	RAJKOT	15	1034
23	PATAN	0	0
24	SABARKANTHA	3	146
25	SURAT	5	189
26	SURENDRANAGAR	4	163
27	VADODARA	4	147
28	VAPI-VALSAD	2	190
GRAND TOTAL		100	5289



Students certificate of ICO



Students certificate of ISO

We also motivated the participated school science teachers to give a certificate.

4. “Science Express” monthly magazine (Gujarati and English Language)

The organization is publishing its own publication ‘Science Express’ which target the primary sections students and the higher secondary students covering various aspects in the field of science and maths like inventions, discoveries, puzzles, game, experiments, famous scientist etc. The magazine is available both in English and Gujarati languages, along with the “Science Express” magazine the students who freshly subscribe for it receives set of 10 puzzles as gift. This year we are started a call to sscribers for feedback & follow up to scriber school-students, which had free subscription to 200 hundred schools in

the Gujarat state. We published a 2000 copy of Gujarati and 500 copies of English as an average during the 2017-18.



Cover page of Gujarati Science Express

Science express Data of March 2018.

No.	details	Copies Gujarati	Copies English	Total
1	Scribers	312	66	378
2	ISO winner students	810	79	889
3	ISO school Participants	183	18	201
4	Well wishers	56	2	58
5	Publishers/Agents	207	11	218

5 Vocational Training Program (VTP):

Science City is conducting Vocational Training programs, recognized by Government of India under the Skill Development Program, supported by Pidilite Industries. During the 2017-18 year the previous year's batches pending work completed and launches new batches. The major courses running during this year were photography, computer Hardware and Tally. During the Period of Photography course, the students were send for outside exposure in Bhavnagar Garden.

VTP	Computer Hardware	2 Batch-10+20=30
	Digital Photography	3Batch- 10+20+10=40
	Tally	2 Batch – 20+15=35

Pidilite Industries on behalf of Science City signed MOU with Gujarat Council on Vocational Training, (GCVT), Gandhinagar and started Kausalya Vardhan Kendra at Science city as satellite extension center of Nari KVK and approved 5 courses at Science City, Bhavnagar.



Tally batch students work on computer



Computer Hardware batch students learn Hardware

Shri Kanjibhai Chauhan Children Library

Science City is operating, Shri Kanjibhai Chauhan Children Library since 2009, to enable students, women and other people to get the access to good quality of literature. The Library has good collection of Gujarati – English science and other subjects books; CD-DVD's and games for the children. The library provides membership and has different schemes for it. The students are allowed to take the games at home who are members of the library. We have **75** new members registered during 2017-18 so total 365 membership's accounts. 2812 (2141 Lib + 680 Mobile lib=2821) readers benefited during 2017-18. To reach out to the people through mobile van library is also running on weekend's i.e., on Saturday and Sunday's and 45 members were registered during the year 2017-18. The mobile van covers some of areas in Bhavnagar city. We will plan to make it daily base a mobile library.

Reward to science city Library: Our library is selected for the good services in Bhavnagar. Pujaya Morari Bapu gave momento and gift of 100 books to our trustee Mr. Sanjay bhai shah and libraian Mr. Hareshbhai Modi.



Khajano

Khajano also known as Science Shop is operational at Science City from 2013. The section is mainly meant for selling of the publications, models, kits, scientific games, kits, career related books, etc. It has got huge stock of DIY type kits, Books, Art materials, CD-DVD etc. The science shop also provide discount to the institutional and school/ college purchases. The annual turnover of the Khajano for the year 2017-18 was **Rs. 319888** /- as income and **Rs. 47042** /- as expenses.

Set of 100 Books

Science City in year 2015-16 had launched project “**Set of 100 Books**” in which he contents are developed by various writers and articles taken from different resources and resource persons. The total cost of developing this set of books is Rs. 6000/- but is sold to schools/colleges/ institutes at discounted percentage of 66% i.e. @ Rs. 2000/ per set. During this year we get income of Rs. 456966/- and Rs 59,295/- as an expenses.

Science Museum

Science Museum has different models which are develop at science city and some of models are purchased from market. Currently 95 models are in our museum; these are working in condition. Educator explains the models and its principal to visitors. The Science Museum was visited by 219 schools and 14449 students were benefitted and had hands on experience of handling and operating the models. The team from Pidilite also made regular visit to Science city and Science Museum.



Science Museum - Explanation of pendulum



Magnetism models explanation

Other programs of science city:

Summer Camp:

Summer camp is conducted every year engaging the students at science city. it is not only in science and math activities but brain storming and skillful activities also like origami, chess, yoga, Vedic math, young scientist, basics in computer, spoken English etc. we had not good responses, approx 46 students participated in various activities from April to May 2017. The sessions were on 15 days for each batch.

Painting workshop:

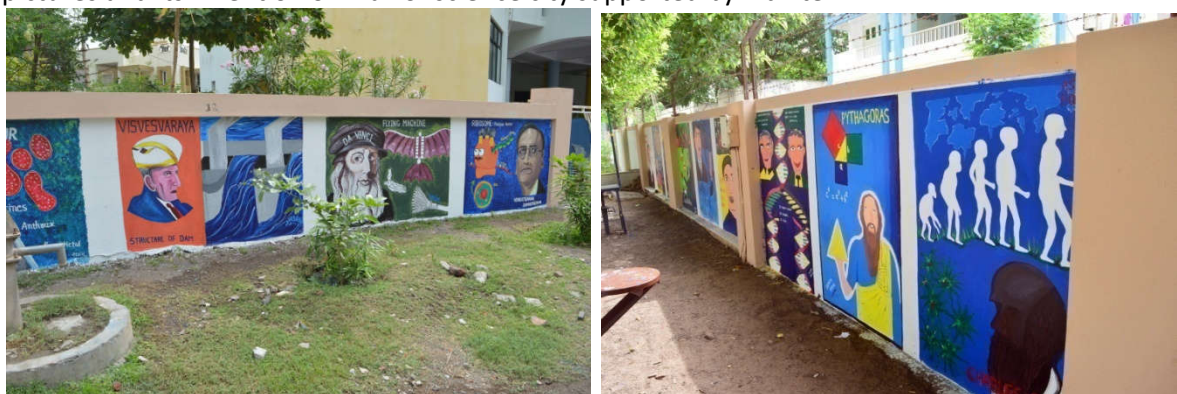
Resource person teach various types of drawing for different group students. Participants are 91 who learn about how painting with different materials this program was supported by Lalit kala Academy

15th August program:

Staff members and other invites were participated in Flag hosting on Independence Day. Dr. Tripathi - dean of Medical College was a chief guest for Flag hosting program at science city.

Scientist Painting on wall of science city:

Scientist Painting was done by 50 participants of school and college. They painted a various scientist pictures and its invention on wall of science city supported by Pidilite.



Scientist posters on wall

Super 30 program

We call standard 8th 1st, 2nd and 3rd rank students from 50 municipal primary schools for admission process and selected 30 students for the program. We provided Math, Science and English to support in their curriculum. The first competitive exam for admission in the super 30 was conducted on Nov 2017 in which 76 students participated out of this top 38 students were selected and were provided training and guidance at the Science City. The aim is to provide platform and prepare the students to enable themselves for the future competitive world.

Brian gym:

Brian gym had inaugurated by Dhurma Bandhuji on 24th Dec 2018. Brain Gym had 196 different 132 pictorial colour posters on illusion, science and math related activities. It had also 68 math puzzles; We announced the press conference also. Science city visitors and school students, teachers had getting benefits.



Vadik math Teacher workshop:

Vedic Math Workshop was a 2days program for 67 primary teachers of Nagar Palika School. It is a combined program of Nagar Palika shikshan samiti and Vigyan Nagari. This program had ingrate by Chairman of shikshan samiti – Shri Nilesh joshi and sasana adhikari-Jignesh bhai Raval. Guest lectures are Mr. Kauishikbhai Parekh and Bhavnaben Parekh from Porbander. They are good in vaidic math, Acupressure and Aruvedic remedies for several diseases. They also give the reading materials-book for revision and increase interest in math. This workshop is useful for the fast calculation, developing Interest in math and support in competitive exam. We suggested following up plan in all school one by one so it will increase the effectiveness of our work.



Teachers training on Vedic Math for government primary school

Vadic math Lecture: We planned a lecture on Vedic math for the B.Ed. students of DIET on 11/1/2018. Approx 80 students and 10 teachers are present in this session.

Chemistry Seminar for teachers:

Royal society of chemistry, Bangalore organized a teacher seminar part -1 at science city for two days.15 teachers had participated in Chemistry seminar teachers learn about the basic concepts of chemistry. Royal society of chemistry, Bangalore organized a teacher seminar part-2 at science city for two days 26 teachers had participated in Chemistry seminar for 2 days.

Republic Day celebration (Foundation day):

We celebrated the 8th foundation day of Moghiben Bal Vihar Trust on 26th January and 69th Republic day of India. We designed the program in science city. Flag hosting was at 8.30 by Mr. Sanjaybhai M. Shah. He gave a short speech to invitee members and staff of Science city. Mr. Bipin sir and i said about the work of science city and new plan of program. We serve refreshment to guest and staff members.

Model making workshop: We were planed the model making workshop. Total 42 Participants had registered from standard 6 to 8 from different schools. We developed a manual of the science models for students, they read it and got support to make model and write their observation and conclusion in manual. Students were took this models and manual at home. This program for math and science models for 3 hours - 10.00 to 1.00. In this duration students prepared the science & math model. Students prepared the models of spanning balloon, fun spinner, sprinkler, 3-d triangle, magic number and 150 ml measuring can.



Students made models of science – Math



Process of paper plan competition

Paper plain competition:

40 Students from standard 5 to 8 from different schools are participated in this program during 4 to 7 pm. Students made 10 varieties of paper plain as per the guidance of facilitator. They selected any one of them for the competition. Students enjoyed the flight of their plain during competitions and learn. We selected 3 students as a winner and gave a prize. We gave a presentation on science behind plain, part of plain, function and history of it. Staff members also joined this program. We planned the video show for the school students and staff members on soldered paper at waghera border. We review this program and find out mistake which will improve in next program.

Astronomical event lunar eclipse - 31st January 2018:

We organized a popular lecture for the school students teacher and common man on 30th Jan at our auditorium. Prof Subhash Mehta has a guest speaker and he take nice informative session on lunar & solar eclipses, red moon, Blue moon, super moon and space shuttle on moon, after this we planned an open session for the audience. I trained the academic staff for session on lunar eclipses for their respective school and general public. We organized four sessions for the science safar schools students and teacher, college students, teachers and general public on 31st January. In this session approx 230 visitors attended the video lecture, astronomical presentation and mission moon. In evening we planned a telescopic observation - lunar eclipse, red moon at Vigyan Nagari.



Lecturer on Lunar eclipse



Telescopic observation of Lunar eclipse

Science fair:

Dr. C.V Raman founded innovation the Raman Effect on that day known as a science day in India. We promoted to organize a science fair in different five schools of Bhavnagar. We selected the models from these schools and other school also for science fair at our place.

Name of school	Number of projects	Date
St. Xavier's school	57 projects	21/2/18
Dakshinamurti Vinay mandir	52 projects	21/2/18
Dharshala secondary school	41 projects	21/2/18
Podar international school	35+20 kG projects	24/2/18
T.B jain Primary school	32 projects	23/2/18
Shri Balvant Parekh Science City	62 projects	27&28/2/18

All selected projects organized in science city - Science Fair. We also organized a video show on Dr. C. V. Raman. Science fair had inaugurated by Education Inspector of Bhavnagar Mr. Mahesh Pandey and trustee Mr. Sanjaybhai Shah. Inauguration function has lighting lamp, welcome speech & introduction of Guest, Guest speech on science day. Prof. Subhashbhai Mehta had delivered speech on Dr. C. V. Raman, video lecture and practical session. We gave general talk on science city and scientific skill and attitude. Science fair had 62 projects from various 16 schools of Bhavnagar. Visitors & students benefited physics, chemistry and biology lab, brain gym, video session on Dr. Raman, Library. In two days program 1242 students of 13 schools, ITI and college students got benefited of science fare.



Science Fair Invitation Card



Projects of science fare at science city

Science fair closing ceremony we invited a deputy chairman of Mr. Mahindrasigh Gohel and educationalist Mr. Ashesh Trivedi. Both Guest good delivered inspiration lecture to teachers, students, parents and science lover. Guest gave a prize and certificate to winner team. We gave a participation certificate to all participants. Guest also gave a prize to school science fair winner students. We motivated science teachers of school to give a science books and memento to Schools. In this function projects student, invited school's principal & teachers, student's parents and science lover friends are present.

Pidilite group visited the science city:

A group of 15 members are visited the science city as a part of Pidilite CSR program. We discuss of our programs and facility for the schools and community. I explained a presentation of Science city work and members took a round of science city.

Religious function- Navarati celebration:

Staff members and its family were organized a dandiya Ras program for one day. Apporx 45 members were participated

Teacher training workshop at Mahuva - Gram Nirman Samaj:

We had participated teacher training workshop at Gram Nirman Samaj, Mahuva. This training session was planned for summer workshop at various origination of different area. 40 teachers are came from various place, like Lok bharti, Mahidhar, Manar, Dholka, Kalsar, Mahuva, Kutch & Navasari. Training started with light lamp by the college trustee, principal, Ismailbhai, Binduben, me and some of teachers. Trainer shared the work plan of summer workshop. We started with scientific toys as per the manual. Binduben gave demonstration of a making model and explain. All participants get the materials and they made it and try to work or not. Teacher made total 10 science models water boat, air gun, air presser rocket, air presser motor car, ball through, candy flower, cup spinner and invert joker as per module.

Teacher training support for staff members:

We planned a two session for the facilitator on Microscopic work with children and general biology. I promote to reading habits in our group. One of the members shared a summary of book. In this month it will be continue and we will plan a training sessions for the facilitator.



Teacher's Facilitation at Science city



Press note on Late Stephen Hawking

A tribute program on Prof. Stephen Hawking:

Stephen William Hawking was an English theoretical physicist, cosmologist, author, and Director of Research at the Centre for Theoretical Cosmology within the University of Cambridge. We organize a lecture on late scientist Prof Stephen Hawking for the science lover of Bhavnagar as a tribute. Dr. Shubhash Mehta delivered a lecture on role of his work in science. Approx 60 people had participated in this program.

Women's day:

We celebrated women's day 8th March. As a part of celebration we organized a program at Mahila ITI Bhavnagar. We planned a science van with experiments, puzzles and models for girls students of ITI. We made demonstration on human body, nutrition and test of food component and other exhibit of science, puzzle. We set up lecture of Gynecologist Dr. Kalpana chavda, who discussed on women health issue, nutrition and general tips to become healthy.

We organized a chess competition for the women and promote the chess as a part of women's day at science city. We issued a certificate to all participants.

Kalpna chavala birthday celebration:

We celebrated a Kalpana Chavala's birth day. We planned a presentation on late Indian Astronaut kalan chavla and video clip for the children of Virat primary School. We show the work of Kalpan chavla and motivated the students for doing such work.



Science Motivation lecture of Kalpna chavala



Women day work with Mahila ITI Bhavnagar

World Water Day:

We celebrated a world water Day with school students, teachers and staff member. We planned a presentation on important of water, save water and source of water. We motivate the audience to convince your neighbor society members to save water. They pledge to save water. We suggest writing an essay or poem on save water and submitting to the school's sir. School will motivate the children and gave scope to share in school assembly. Approx 170 members were attended this program.

Religious function- Navarati celebration:

Staff members and its family were organized a dandiya Ras program for one day. Apporx 45 members were participated

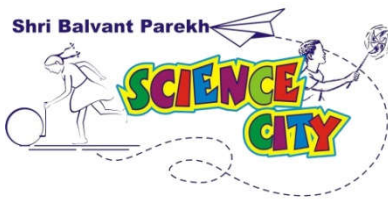


Team Vigyan Nagari

1st May 2018

Ashwin Prajapati

Manager



Bhavnagar

