

Annual Report

STEM FOR GIRLS



Implemented by
VASUNDHARA FOUNDATION

Supported by
QUEST ALLIANCE

Year-2021-22



VASUNDHARA FOUNDATION

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About the Vasundhara Foundation

Vasundhara Foundation (VF) was founded by multi-sectorial professionals and formally registered in 2003 under Bombay Public Trust Act, 1950. Our Aim is to provide handholding support to CBOs, village institutions, GO-NGO-CSRs and development activities to promote sustainable lives in rural and semi-rural areas.

Vasundhara foundation has a multi-disciplinary and experienced team of professionals that helps in capacity building of key functionaries, performs handholding operations to contextualize the output and outcome indicator of the program and build strategies to strengthen the development sector.

Our Intervention was initiated in Surendranagar district of Gujarat in the year of 2015-16 where we have been able to reach 57 villages of Dhrangadhra, Dasada (Patdi), Chotila, Muli, Sayla, Wadhwan, Halvad and Limdi block with the extreme support of Forest Department - GOG.

During 2016 to 2018 we have established our intervention in Sami and Shankheshwar block of Patan District. Formation and strengthening of Village Child Protection Society (VCPS) was our main activity. We got financial support from the Department of Social Justice and Empowerment of the State Government which was our project-based intervention.

In cyear 2019-20, we expanded our sphere of activity in Radhanpur block of Patan district and Bechraji and Mandal block of Ahmedabad district. Now we are working as a resource organization for Reliance Foundation. Our main activity is community empowerment process and capacity building of PRIs, SHG and CBOs and another village's institution. We are also in robust process for prepadness of village development plan with the participatory approach in Patan District of Gujarat.

Currently we are working in 8 districts Surendranagar, Patan, Mehsana, Ahmedabad, Surat, Chhotaudepur, Narmada and the Dang District of the Gujarat state.

STEM For Girls project started from 2019 in 5 districts of Gujarat state



QUEST ALLIANCE, IBM and STEM FOR GIRLS

Quest Alliance (QA):

Since 2004, Quest Alliance continues to work closely with diverse partners to promote the effective and responsible use of technology to scale Education, Employability and Entrepreneurship programs. Secondary schools are an important space for learners to prepare themselves for their future. The future needs self-aware citizens adept at navigating technology and fuelling socio-economic growth for all.

QA creates learning experiences encouraging adolescents to build critical 21st century skills, challenge gender norms, explore career possibilities with a focus on STEM, use coding as a medium of expression to become creators rather than consumers of technology. QA runs in Andhra Pradesh, Assam, Bihar, Gujarat, Karnataka, Odisha and Telangana

STEM FOR GIRLS and IBM

An initiative by IBM in India to improve education and career pathways for girls in schools. Committing to impact 200,000 girls across India. These bright girls have big aspirations and they want to build careers in science and technology and build their own identity and certainly have the will power to make it happen. Watch how IBM is helping shape their dreams into reality.

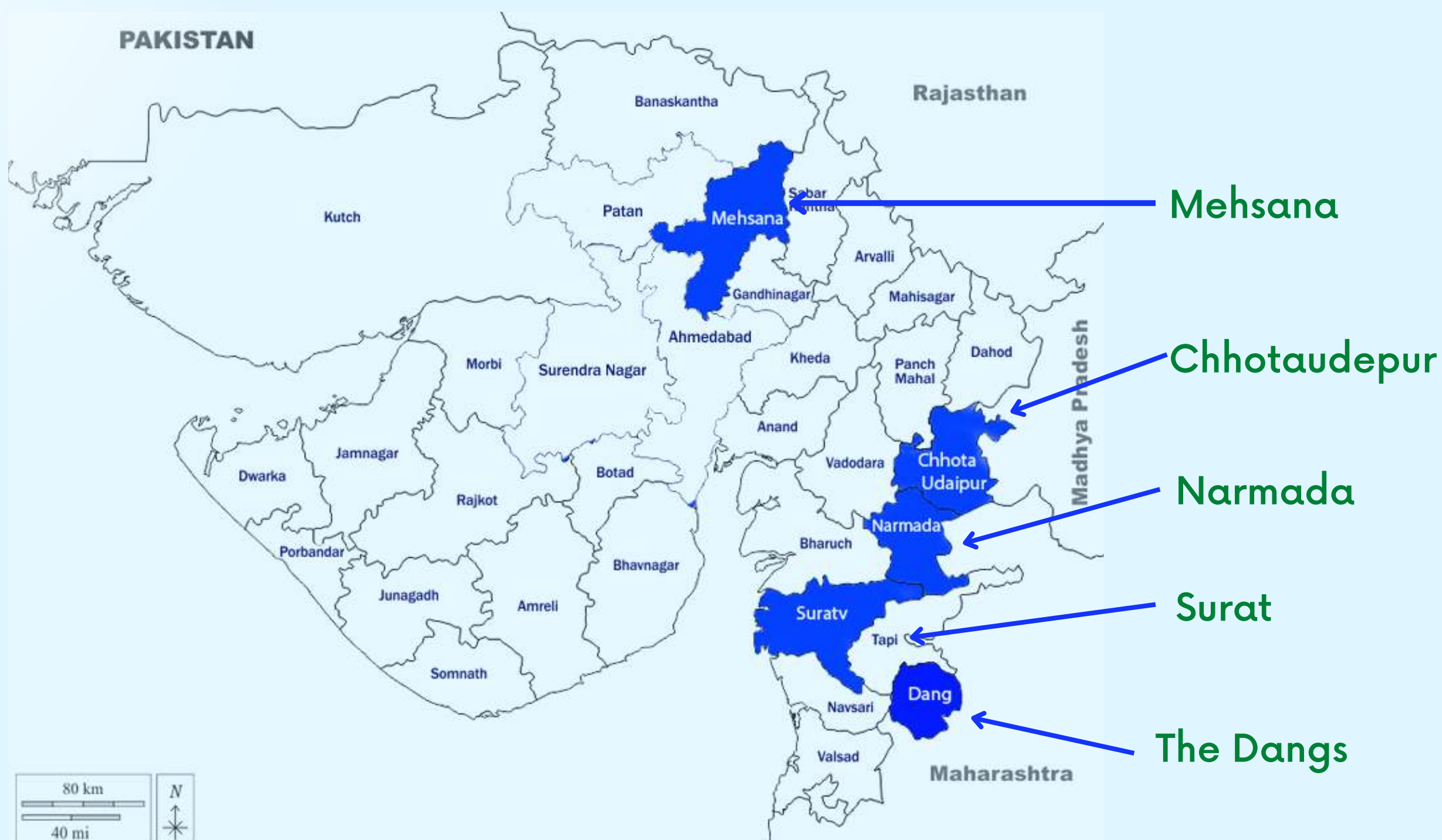
With the commitment to improve the skills of young girls and boys who are in schools across India. IBM arming these girls with the skills they need, to make a difference to communities in which they live and the world at large—solving challenges and driving stewardship with good tech. “India’s huge talent pool has an amazing opportunity to contribute to our country’s tech prowess. IBM’s collaboration with state governments will help girls participate and become future-ready — better aligned with market shifts and industry needs.

From January 2020 VF started our organizational interventions in the “STEM for Girls” education program with support of CSR of IBM Company through their Indian national partner QUEST Alliance. Aim of the project to promote girls to take Science, Technology, Engineering and Mathematics as a career path and more inclusion of girls in further education in STEM fields.



STEM FOR GIRLS out reach

GUJARAT State



5

District

15

Blocks

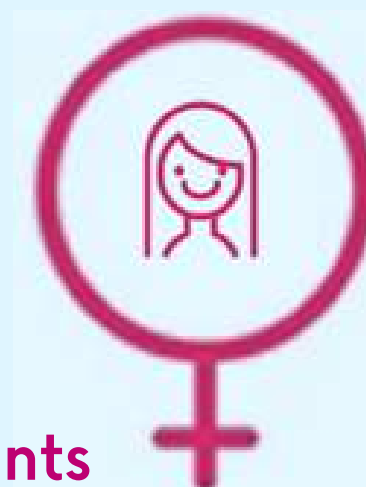
24

Schools



3311

Male students



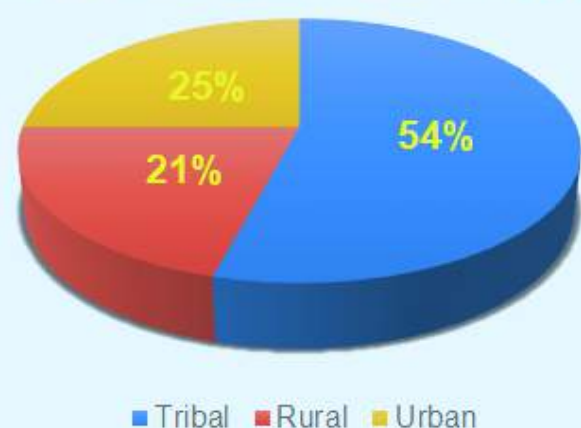
3499

Female students

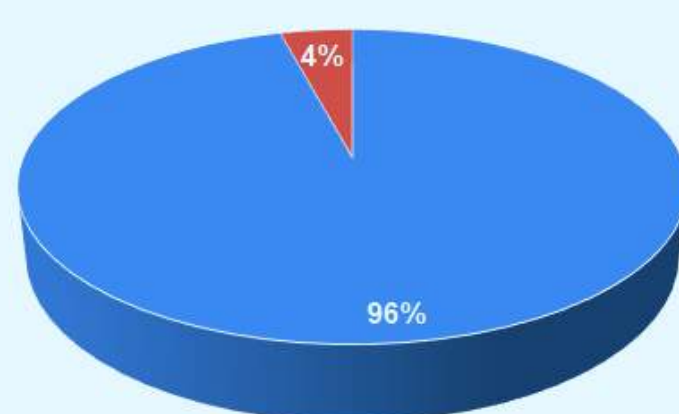
6810

Total students

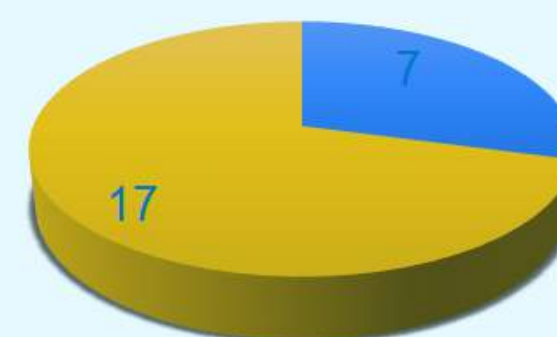
Area wise schools coverage



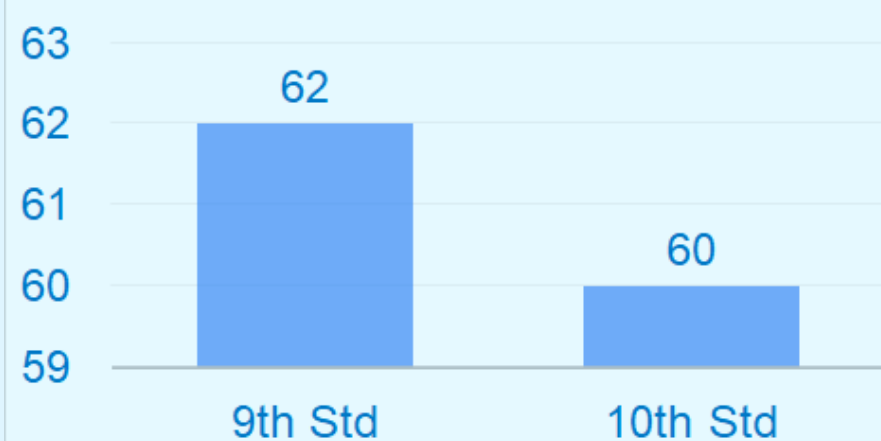
Co-Education Girls



Nos.



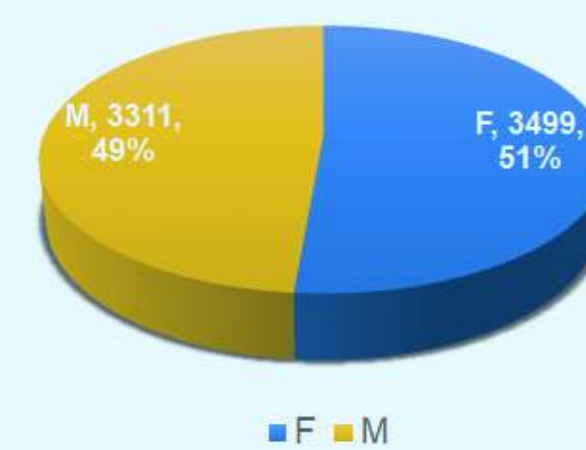
No of Class



Gender wise nos.



Total Nos. 6810



Content development and delivery

During the year three, mainly content delivery was on focused through online and in person. During the lockdown period our facilitators were delivered the content. After the unlock down we have delivered the content in classroom session.

The delivery of content to students is a core activity of the project. Curriculum is developed and designed by Quest Alliance. Concept of task force team were being very helpful for the prepare a readymade inputs for the delivery of content to students. Two person from VF team was actively associated in task force team. Main objective of the task force team is to review on content and prepare the make it to easier to deliver to the students. Another training from the Quest Alliance on various session for Facilitators were helped for online engagement to students and parents on designed curriculum.

Objective of the Content development:

STEM for girls' initiative aims to equip young girls with the essential skills to bring about a change in outlook of not only the communities they belong to, but also the world, as a whole. With these skill sets, Students will be masters in Solving Challenges and driving Stewardship with good tech.

Importance of content:

STEM is a curriculum with the aim to foster a robust STEM ecosystem that encourages Critical thinkers, Problem Solvers & the innovators of the upcoming generation. This is expected to have a tremendous impact over the narrative of girls education & will help a knowledge -based Society in our Country.

STEM is a curriculum based on the idea of educating Students in four Specific Disciplines- Science, Mathematics, Engineering & Mathematics- in an interdisciplinary and applied approach.

Integrating Computational & Problem Solving Skills in the national curricula of the School System is getting more and more essential as the digital transformation of our country is taking place at a rapid rate. This will empower and build a future ready next-gen workforce and change the dynamics of the entire ecosystem.

**Technical
skill**

**Career
Planning**

Life Skill

**Ecosystem
Enablement**

**Four key aspects
covered in contents**

The following List of Contents delivers to the students during the year. The main objectives that the initiative focuses on:

Technical Skills

- Computational Thinking & Coding
- Future Skills - 21st Century Skills
- STEM Support
- Leadership & Recognition

Career Planning

- Career guidance, Education and experience Sharing
- Counseling, Mentoring by Facilitator and other Leaders
- Interaction with role model

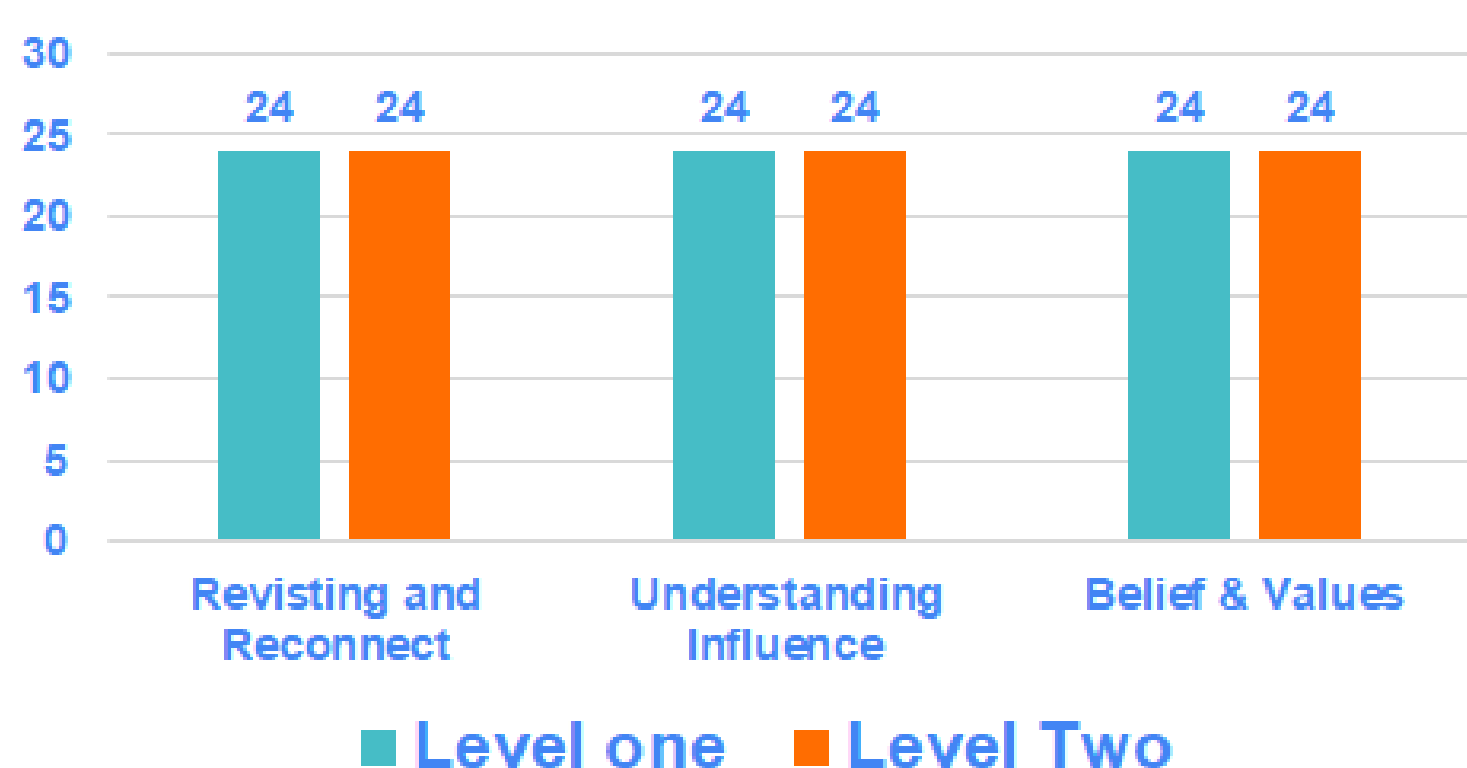
Life Skills

- Gender awareness and equality Consciousness
- Personal Competencies and agency
- Social and Interpersonal Skills

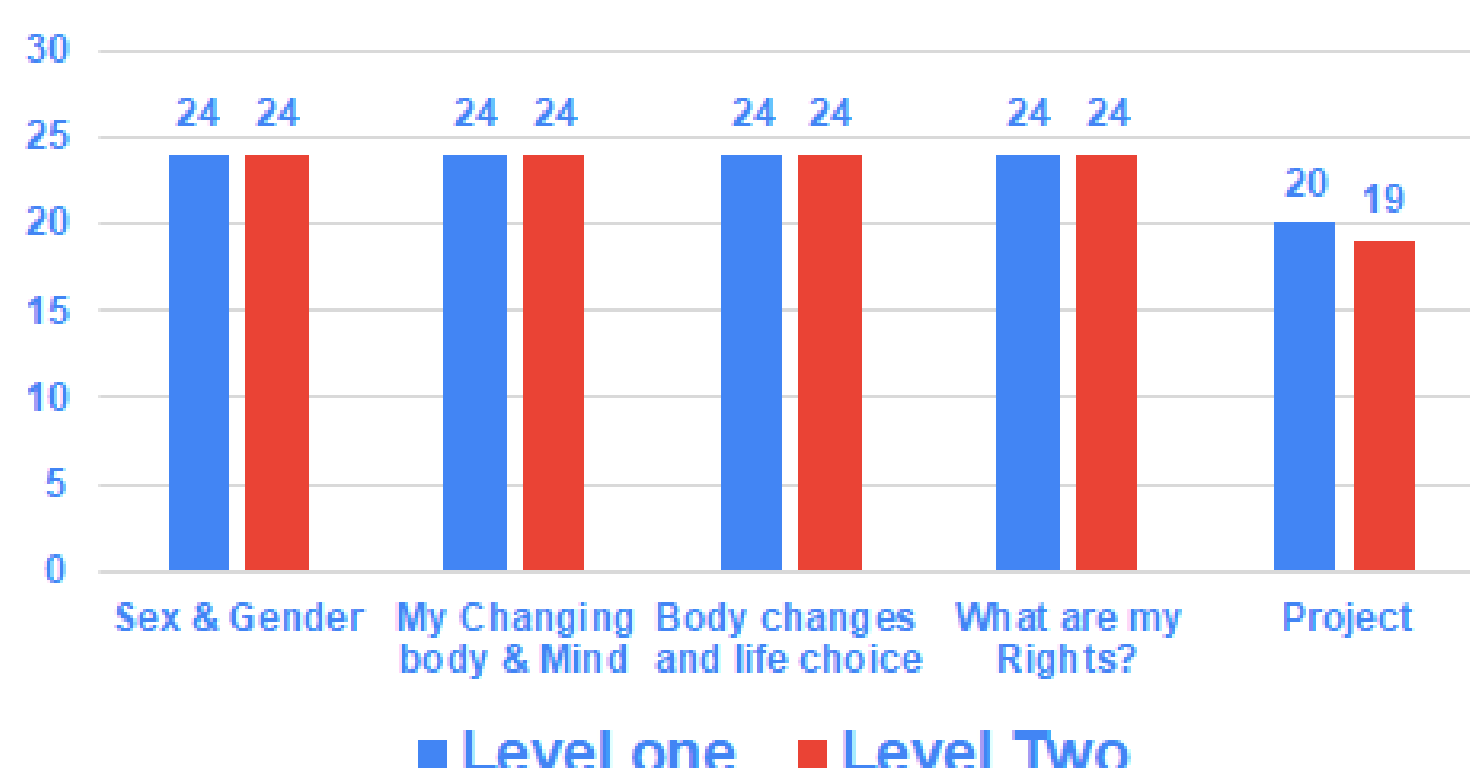
Ecosystem Enablement

- Training for Teachers
- Community/ Parent's awareness

Module-Self completed to no of schools



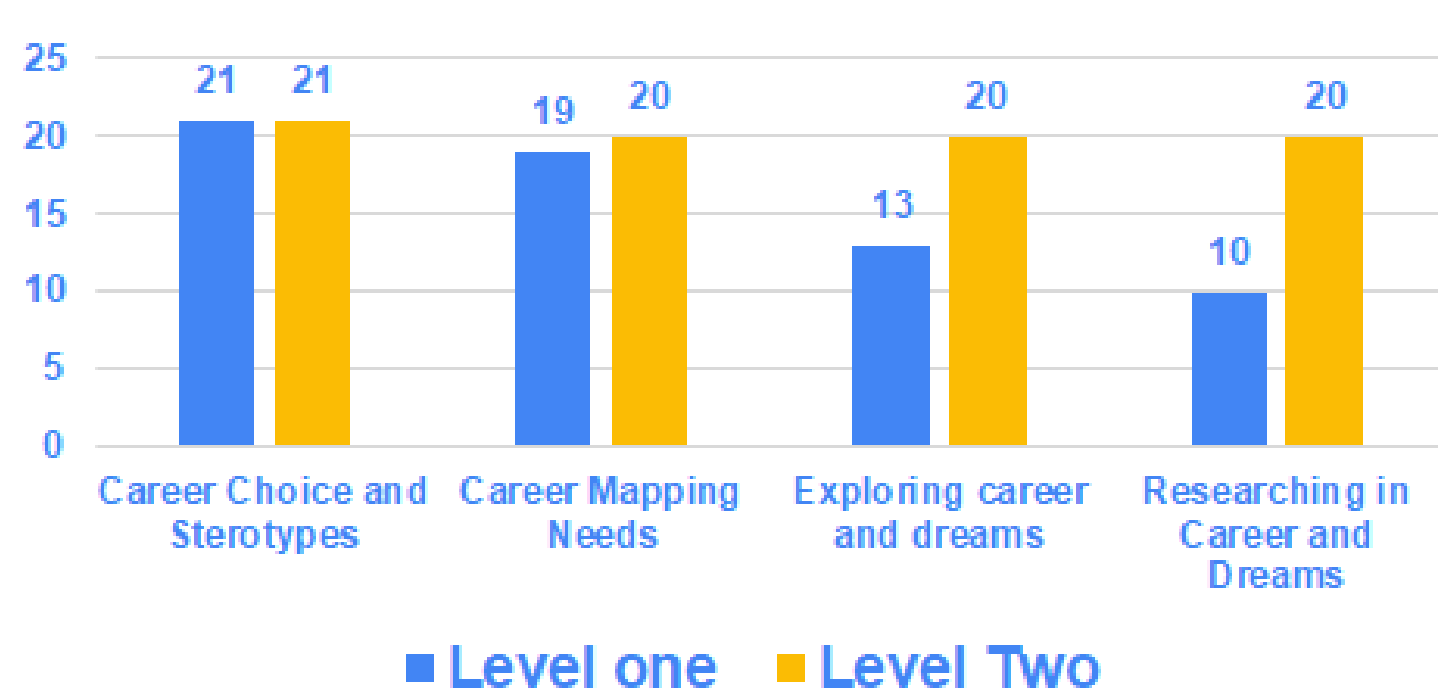
Module: Gender completed to nos of schools



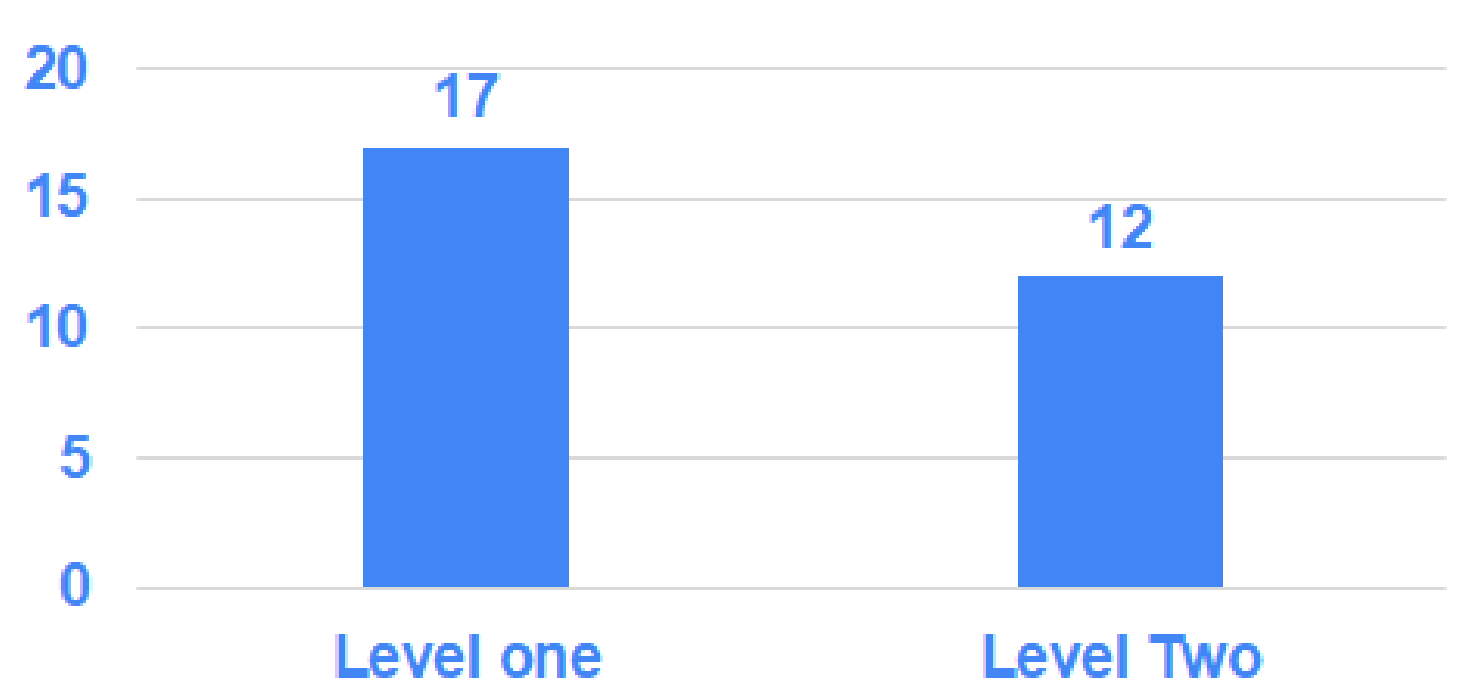
Level-1=Standard nine

Level-2=Standard Ten

Module Career completed to nos of schools



CT-Ideathon Introduction in nos of schools

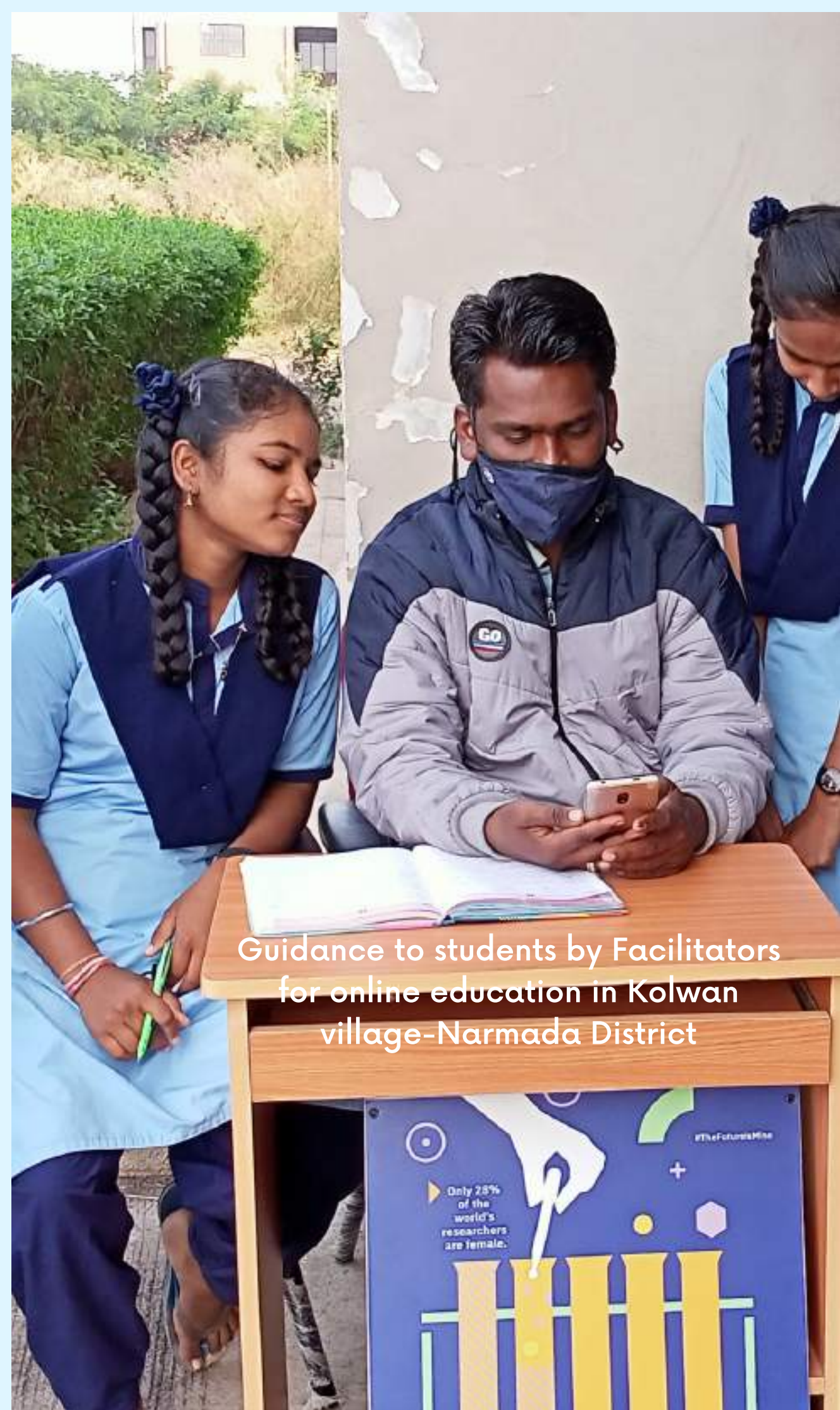




Exercise on career guidance tree at Bhestan school District Surat



Online seminar attended on terrace in tribal area



Guidance to students by Facilitators for online education in Kolwan village-Narmada District

Teachers and HM engagement

Teacher's engagement:

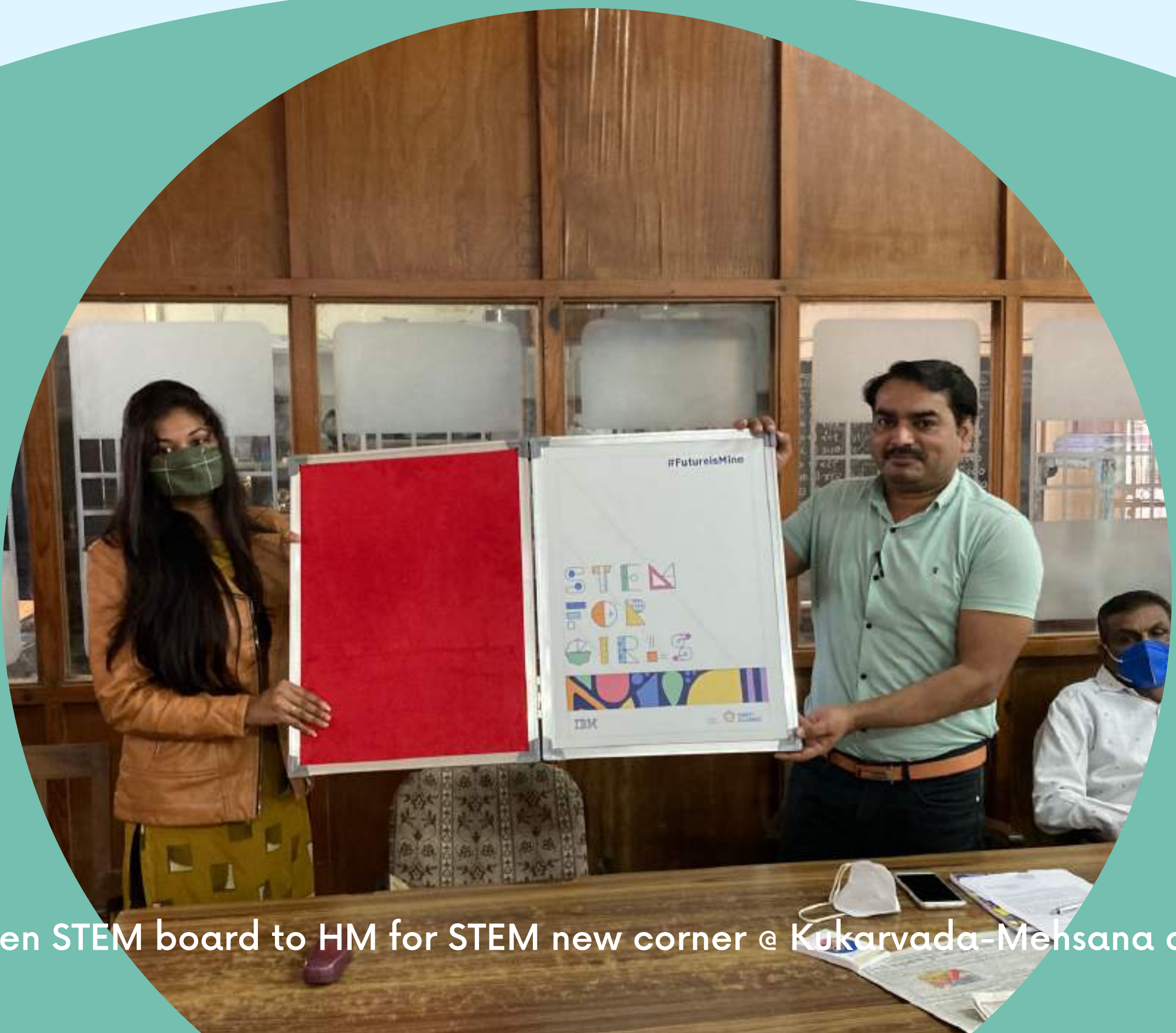
Teachers' support and cooperation is very key aspects of project success. We see the teachers can play a significant role in influencing and dispelling student's life so it is much more important for us to stay connected and inform them about the STEM curriculum.

During the year three, we did a few activities with the teachers under the STEM project, we always tried to keep them updated and connected with us through the different platforms such as Google meet, Zoom, Team and face to face Meetings. Therefore, they can save their time and energy along with IT further more teachers were able to do their educational work with more flexibility.

Meeting with Teachers and principals

We always tried to teachers should be aware of the importance, purpose, and objectives of the project. So, we often conduct meetings with them to ensure that they are totally oriented by our field team. **23 Teachers oriented for teacher led school concept.**

Facilitators are the key player at field, they are playing huge role, in all school facilitators has built up good relation with teachers and headmaster that's why even in lockdown we are able to work with them on engagement strategy fortunately. During the year. Project Manager and CRP also frequently visited the schools for the purpose of rapport building and input to the facilitators.



Given STEM board to HM for STEM new corner @ Kukarvada-Mehsana district

Capacity building of team

Capacity building of the team

During the year various type of capacity building activity has been carried for facilitators:

Five days residential training @ Ahmedabad

Five days residential training on 2nd Feb, 2022 to 8 Feb, 2022 were organized by VF. The purpose of the training was to build a perspective for the next year and preparedness of them self for the next year project activity. During the 5 days training, our facilitator learnt about how to make a role for community connect, sustainable development goal.

Some sessions were organized for the development of their skills by which they can facilitate their students well and it helps a lot to deliver the session in the perfect way so students can understand the things which the facilitator wants to inform them, with the different types of games and energetic activities. Most of the activities that we were introduced in our training sessions revolved around the physical, emotional and cognitive development of a child. Play nurtures a child's intelligence, communication and language skills.

Exposure visit

Exposure visits were organized for all Facilitators to Vikram A Sarabhai Community Science Center (VAS-CSC) Ahmedabad for the purpose of orientation on new tools and journey of STEM to STEAM.

VAS-CSC is a very renowned organization who are working on science education for the community.



Team training and exposure visit



Hachathon and Ideathon

Hackathon & ideation:

"Hackathon is a platform which is provided by design for change institute under Quest alliance in order to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving". Six steps were followed for the process with the students.

- 1) Submission of Problem statement
- 2) Work on think about 360-degree analysis to find root cause of the problem
- 3) Imagine the situation which students want after solve their problem
- 4) Work in team we provide mentor support for filter their solution in realistic
- 5) Make a demo model of the solution
- 6) Present in front of all participants and result publication by mentor team

Some amazing benefit students got by participating in hackathon as students said.

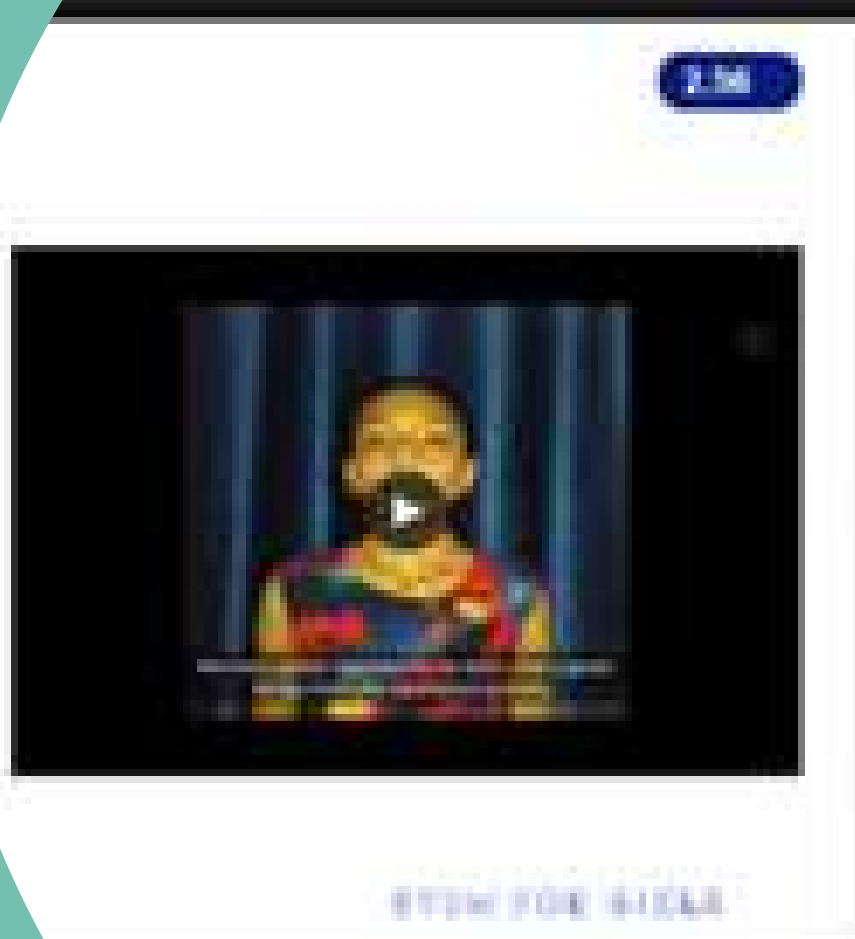
- Got an innovative solution of their problems with cost effectiveness along with this they got an opportunity to be a part of state building community of youth.
- Achieved state recognition and visibility of themselves across all academic institution.
- Talented youngsters from all over the state got beyond the curriculum knowledge which helps to develop 21st century skills in students.
- Can get an opportunity to be a part of world's biggest open innovation movement and work with some of the best talents in the country.

**712 girls & 1347
boys total 3059
students
Participated**

**10 girls selected
for the and they
made 5 Models**

Feedbacks from our students:

- Students realize that the development of critical thinking skill required for the win the race.
- Now they can identify their problem their own and can able to understand how can solve problems.
- They can overcome of their stage fear.
- They understand, no problem is to big
- No problem is too big, no idea is too small



STEM PathWay

STEM Pathway:

STEM Pathway identification is key milestone of the project outcome. The objective of STEM pathway identification is "To Identify the girls who going to choose STEM education and appreciate them for choosing their career with their interest and abilities, from them other girls also take an inspiration to choose their career with their interest not with social stereotypes"

When we started the process of STEM pathway identification there were total 571 girls who want to choose STEM career and we decided to reach out more girl students who studied in 10th in 2021 after they did an activity regarding "Interest and Abilities, Who I am? career beyond stereotypes" and many more from that we found a drastic increase in the number of girls who want to pursue their higher education with STEM and which is 162 girls.



571 girls.
ready to go
with STEM
Path ways

Girls get
admission in
162 STEM
Subjects

74
Science

83
Commerce

5
ITI

Reasons for don't choose the STEM Pathway as Girls Said

- No Science stream available at nearest high school.
- Weak economic condition
- No science teacher available
- No family support
- Not aware about career

Approval of science stream in waiting in Role Model School, Satlasana. But due to good impact of SFG project DEO Mehsana given approval of Science stream from year 2021.





Mug and Calendar given to DEO Mehsana



In person session @ home in the Dangs



Classroom session @ Satlasana-Mehsana District

STEM CLUB

STEM Club:

In the STEM Club activity, we formed the club at 17 school with representative of the standard wise male female.

Some schools HM provided for the space for the activity regarding STEM club. We gave a name STEM Club cum ICT room. During the year we organized interesting activity at the STEM club cum ICT room.

We have displayed different activities done during last year. One of our Sessions like Role Model interaction in that we are inviting different Role models of the STEM field in our online session same as we have displayed banners of different Role models like Sudha Murthy, Sunita Williams. The career tree is displayed in the room so that students can get an idea about opportunities available in STEM Careers. Under the Computational Thinking module Students had designed projects that are also displayed. During last year Students had done many activities virtually are displayed as Artefacts. Reflections about different Projects done by them like their experiences, change in their lives through this project are also displayed. The findings of STEM career posters are also displayed. Computational thinking topics like algorithms and Flow charts i.e How to get a better understanding of science subjects and how to learn Math are prepared by students and illustrated visually in the STEM club. On National Science Day Students had prepared different Models of Science that are displayed in the Club.

The use of ICT labs in rural schools will not be limited to teaching computers to children. Its main objective will also be to promote computer technology in education work. It has been started to compete with the smart classes of private schools. ICT labs have been set up at Government Secondary Schools Ankhol, Rampura, Simalfaliya and Selamba in Mehsana, Surat, Chhotaudepur and Narmada districts with the aim of providing computer education to children from 9th to 12th standard.

MP of Narmada constituency, Gujarat Mr. Mansukhbhai Vasava inaugurated the ICT lab cum STEM club at Selamba model school.



આપણા રોલ મોડેલ



સુધા મૂર્તિ

સુધા મૂર્તિનો જન્મ ૧૯ ઓગસ્ટ ૧૯૫૦માં શિગાવા માં થયો.

તેણી ભારતની સૌથી મોટી ઓટો ઉત્પાદક કંપની ટાટા એન્જિનિયરિંગમાં પ્રથમ મહિલા એન્જિનિયર તરીકે પસંદગી પામ્યા હતા. તેણીએ કમ્પ્યુટર સાયન્સ અને એન્જિનિયરિંગમાં તેમની વ્યવસાયિક કારકીર્દીની શરૂઆત કરી હતી. ૧૯૯૬માં તેમણે ઇન્ફોસીસ ફાઉન્ડેશનની શરૂઆત કરી અને આજ સુધી ઇન્ફોસીસ ફાઉન્ડેશનના ટ્રસ્ટી તરીકે સેવા આપી રહ્યા છે.







IEC Meterial Development

STEM CLUB (સ્ટેમ ક્લબ)માં આપનું હૃદયપૂર્વક સ્વાગત કરીએ છીએ.

STEM FOR GIRLS

SCIENCE વિજ્ઞાન, TECHNOLOGY તકનીકી, ENGINEERING ઇજનેરી, MATHEMATICS ગણિત

આ એક અનુભવી વિદ્યાર્થીનું શિક્ષણ આપવાનું છે. જેનો હેતુ

- ઈજિનિયર સાહસ
- કોડિંગ આધારિત રેલેટિવ પ્રોગ્રામ
- મશિનરિય ઇન્જિનિયરિંગ અને
- જીવન કૌશલ્ય સહિત ૨૫ સ્ટોરી કુશળતાઓનું નિર્ધારિત કાર્ય

અને વ્યવસ્થિત જીવનના અનુભવોનું શિક્ષણ દ્વારા રોજબરોજ અને અભ્યાસ કાર્યકાર્યોમાં સ્ત્રીઓને મદદ કરવાનો છે.

અભ્યાસમાં STEM ને અનુભવ માટે અનુભવ સ્થળોની સાથે જોડવાનો હેતુ છે. જેમાંથી દરેક સ્ત્રીને એક સ્વતંત્રતા અને આત્મવિશ્વાસ આપવાનો છે. આથી, આના દરમિયાન ઈજનેરી જેવી કાર્યકાર્યોમાં સ્ત્રીઓને મદદ કરવાનો છે.

આ કાર્યકાર્યમાં વિદ્યાર્થીનીઓને કેન્દ્રસ્થાને છે જેથી કાર્યકાર્યનું નામ "STEM FOR GIRLS" રાખવામાં આવેલ છે.

આ કાર્યકાર્યનું હેતુ "STEM FOR GIRLS" હેતુને સાથે, ઈજનેરી અને આત્મવિશ્વાસ આપવાનો છે.

STEM FOR GIRLS IBM QUEST ALLIANCE

ચાલો શરૂઆત કરીએ.

શું આપ સ્ત્રી અને પુરુષની ઓળખ માટેની સાંકેતિક ભાષા વિશે જાણો છો ?

♂ પુરુષની ઓળખ માટેનો સંકેત
♀ સ્ત્રીની ઓળખ માટેનો સંકેત

આપણે વિજ્ઞાનમાંથી જાણીએ છીએ કે સ્ત્રીઓ અને પુરુષોની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે. સ્ત્રીઓ અને પુરુષોની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે.

સંકેત ઓળખો

સંકેતનું ઉદાહરણ છે

STEM FOR GIRLS IBM QUEST ALLIANCE

ચાલો જેન્ડર (સામાજિક લિંગભેદ) વિશે સમજીએ.

જેન્ડર એટલે.....

વિજ્ઞાનમાં સ્ત્રીઓ અને પુરુષોની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે. સ્ત્રીઓ અને પુરુષોની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે.

સ્ત્રી એટલે..... પુરુષ એટલે.....

સ્ત્રી એટલે..... પુરુષ એટલે.....

તમે હવે સમજી શકો છો કે સ્ત્રી અને પુરુષની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે. સ્ત્રીઓ અને પુરુષોની વચ્ચેના તફાવતો છે. જેનો ઉપયોગ જીવનમાં કરવાનો છે.

તો ચાલો સ્ત્રી પુરુષના પારંપરિક શ્રમ વિભાજનના અવાજોને ભૂલાવી દે તેવી કેટલીક મહત્વની સ્ત્રીઓને જાણીએ.

તમારી આસપાસમાં વિશેષ સિદ્ધિઓ મેળવનાર સ્ત્રીઓ વિશે જાણો. એમાંથી STEM ક્ષેત્રે કારકીર્દી બનાવનાર સ્ત્રીની મુલાકાત લઈ પ્રેરણા લો.

STEM FOR GIRLS IBM QUEST ALLIANCE

STEM ક્ષેત્રે કારકીર્દી

કુલ સંસોધકો પૈકી માત્ર ૨૮% જ મહિલાઓ છે.

કુનિયામાં કુલ ૧૧ % મહિલાઓ આવકાશીઓ છે.

STEM ક્ષેત્રે ૩૦% સ્ત્રીઓ

STEM ક્ષેત્રે ૩૫% સ્ત્રીઓ

STEM ક્ષેત્રે ૩૫% સ્ત્રીઓ

STEM ક્ષેત્રે ૩૫% સ્ત્રીઓ

STEM FOR GIRLS IBM QUEST ALLIANCE

લક્ષ્યાંક

ક્વેસ્ટ અલાયન્સ દ્વારા આઈ. બી. એમ. કંપનીના સામાજિક ઉત્તરદાયિત્વ વિભાગના સહયોગથી STEM FOR GIRLS કાર્યક્રમ અંતર્ગત સામાજિક લિંગભેદના રૂઢીગત ઢાંચાઓને પાર કરીને નવી ઉજળી તકોને શોધવાનો એક પ્રયાસ.

સરકારી માધ્યમિક અને ઉચ્ચતર માધ્યમિક શાળાઓ

૪૫ કલાક અભ્યાસક્રમ

YEAR 3

૪ મોડ્યુલ

૧. "સ્ત્રી"ની ઓળખ
૨. સામાજિક લિંગભેદ
૩. ગણતરીમૂલક વિચારસરણી
૪. કૌશલ્ય આધારિત કારકીર્દી

૧૦ રોજિયો

૨૦૦૦૦૦ વિદ્યાર્થીનીઓ

STEM FOR GIRLS IBM QUEST ALLIANCE

એકવીસમી સદી થશે ચરિતાર્થ, ભણે જો દીકરી STEM સંગાથ

STEM એટલે,....

Science (વિજ્ઞાન), Technology (તકનીકી), Engineering (ઇજનેરી), Maths (ગણિત)

STEM FOR GIRLS IBM QUEST ALLIANCE

આપણા રોલ મોડેલ

અવની ચતુર્વેદી

અવની ચતુર્વેદીનો જન્મ ૨૯ નવેમ્બર ૧૯૮૩માં મધ્યપ્રદેશના રેવા જિલ્લામાં થયો.

અવની ચતુર્વેદીને તેની બે સાથીદાર મોહનાસિંહ જીતાસવાલ અને ભાવના કંથ સાથે પ્રથમ મહિલા લડાક પાઈલટ તરીકે ઘોષિત કરવામાં આવ્યા હતા. ચતુર્વેદીને જૂન ૨૦૧૬માં ભારતીય વાયુસેનાના ક્રાઈસ્ટલ સ્કાયડ્રોનમાં સોમેલ કરવામાં આવ્યા હતા. તેણે રાજસ્થાનના અગસ્થલી યુનિવર્સિટીમાંથી બેચલર ઓફ ટેકનોલોજીમાં અભ્યાસ કરેલ છે. અવનીને વૈદરશ્યાદ અરેસ્ટમાં એકેડેમીમાં લાલિમ માટે પસંદ કરવામાં આવ્યા હતા જે તેમણે ૨૫ વર્ષની વયે પૂર્ણ કરી હતી.

STEM FOR GIRLS IBM QUEST ALLIANCE

આપણા રોલ મોડેલ

કિરણ બેદી

કિરણ બેદીનો જન્મ ૬-જૂન ૧૯૮૦માં અમરસરમાં થયો.

કિરણ બેદી પોલીસ વિભાગમાં જોડાવા પ્રથમ મહિલા અધિકારી છે. તેણે ૧૯૯૯ માં સ્ટેટીય મેટ્રન જોડાય છે. પોલીસ અધિકારી તરીકે મહિલાઓ વિભાગમાં મુલાકાત, ડ્રમ્સ અને દુરના સેન્ટ્રલ સાથેના અભિયાન માટે જાણીતા છે. ૧૯૯૨માં દિલ્લીમાં એસિસ્ટન્ટ મેન હરિયાણા હાઈકોર્ટ અધ્યક્ષતા માટે તેમને પદ કરવામાં આવે છે. ૧૯૯૩ માં તેમને દિલ્લી જિલ્લા જેલમાં ઈન્સપેક્ટર જનરલ તરીકે કાર્યવાર સોંપવામાં આવ્યા હતા, જે હરિયાણા જિલ્લા અનેક મુલાકાતો કર્યા બાદ તેમણે વિજયવર્માની પ્રસંગ મેળવી હતી. ૨૦૦૩માં તેઓ સંયુક્ત રાષ્ટ્રના નાગરિક પોલીસ સલાહકાર તરીકે નિયુક્ત થનાર પ્રથમ મહિલા બન્યા છે.

STEM FOR GIRLS IBM QUEST ALLIANCE

આપણા રોલ મોડેલ

સુનિતા વિલિયમ્સ

સુનિતા પંડ્યા લીન વિલિયમ્સનો જન્મ ૧૬ સપ્ટેમ્બર ૧૯૬૫ ના રોજ થયો.

તેણી ભારતીય મુળના અમેરિકન અવકાશયાત્રી તરીકે ઓળખાય છે. તે એક અમેરિકન અવકાશયાત્રી અને યુનાઈટેડ સ્ટેટ્સની નેવી ઓફ ઈન્ડો સ્પેસવેનિયન ટ્રુપની અધિકારી હતી. ૬ ડિસેમ્બર, ૨૦૦૬ ના રોજ વિલિયમ્સે આઈએસએસની ૧૪મા અભિયાનના ભાગ રૂપે સાર્વલ ડિસ્કવરી પર પ્રથમ વખત અવકાશમાં પ્રવેશ કર્યો હતો. તેઓ ૨૬ એપ્રિલ ૨૦૦૭ થી ૨૧ ઓગસ્ટ ૨૦૧૨ સુધી અવકાશમાં રહ્યા હતા.

STEM FOR GIRLS IBM QUEST ALLIANCE

આપણા રોલ મોડેલ

ટેસી ધોમસ

ટેસી ધોમસનો જન્મ એપ્રિલ ૧૯૬૩માં કેરળના અલાપ્પુટ્ટામાં સીરિયન ખ્રિસ્તી પરિવારમાં થયો.

તેણી હાલ ભારતીય વૈજ્ઞાનિક અને એરો-સ્પેસ કોર્પોરેશનના સિસ્ટમ્સના ડાયરેક્ટર જનરલ અને સંરક્ષણ સંસ્થાન અને વિકાસ સંગઠનમાં અગ્રિય મિસાઈલના જુનિયર પ્રોજેક્ટ ડિરેક્ટર છે. તે ભારતમાં મિસાઈલ પ્રોજેક્ટનું નેતૃત્વ કરનારી પ્રથમ મહિલા વૈજ્ઞાનિક છે. તે ભારતના મિસાઈલ યુગ તરીકે કુનિયામાં જાણીતા છે.

STEM FOR GIRLS IBM QUEST ALLIANCE

આપણા રોલ મોડેલ

સંજય કપૂર

સંજય કપૂરનો જન્મ ૧૦ એપ્રિલ ૧૯૬૩માં અંબાલા (હરિયાણા)માં થયો.

જેઓ એવા એક વિશ્વ વિખ્યાત ભારતીય છે કે, તેઓ જમના મસકર સ્ટોઈયા તરીકેની નામના ધરાવે છે. તેઓને ભારતના સમાજીય એવોર્ડ પદાથી ધી ૨૦૧૩માં નવાજવામાં આવ્યા.

આપણે જાણીએ છીએ કે ઇન્ડિયન સ્પેસ તો સ્ત્રીઓ જ બતાવી શકે. આ ઇન્ડિયન સ્પેસ વિભાગની યાત્રાના નુસે છે.

તો આપણે, ચાલો જેઓને જેન્ડર આધારિત મનાંકનો તોડવાની ભૂમિકા અટકાવી દે તેમની પાછી બનાવીએ.

STEM FOR GIRLS IBM QUEST ALLIANCE

Scholarship

Scholarship is a form of financial aid awarded to students to further their education. Scholarships are awarded based upon various criteria, such as academic merit, diversity and inclusion, athletic skill, and financial need. Scholarship criteria usually reflect the values and goals of the donor or founder of the award. The awards may require that the recipient continue to meet certain requirements during their period of support, such as maintaining a minimum grade point average or engaging in a certain activity. Scholarships may provide a monetary award, an in-kind award or a combination.

As students view Scholarship helps to the students for major three aspects. One is they can gain access to education, second one is scholarship can big help students complete education those students who has financial support required.

Process of scholarship:

Engaged Students through WhatsApp, Phone Call, Google Meet and meet personally and Informed about Scholarship and explained registration Process, Form filled up Process, Document Scanning & Uploading Process so that maximum Students could take Benefits of particular Scholarship.

With the rigorous support and follow-up our team connected with the students and guided them for the Scholarship.

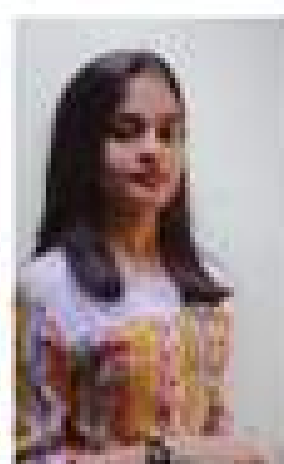
The total applied for 259 students in our 5 districts As mahesana 112, Surat 100, the Dang 21, chhotaudepur 10 and Narmada 16 scholarship And total Submitted Form to 223 students no of female students are 193 and male 30 in all our school.

During this year 4 Students Pass SSE Secondary scholarship, 4 students awarded HDFC Bank ECS scholarship & 2 students IAS National Scholarship And 2 students are achieving buddy4Study Scholarship. The 9 students Benefits Palak mata pita scheme.



Vasundhara Foundation

Congratulations.. student received scholarship... Year 2021



**Bambhaniya
Yogitaben Dineshbhai**
HDFC Bank Parivartan's
ECS in School Program
2021 -22
Scholarship
Amount:-35000/-

**Kalola Ishita
Dilipbhai**
HDFC Bank
Parivartan's ECS
in School Program
2021 -22
Scholarship
Amount:-35000/-

**Dholakiya Shivani
Jitendra Kumar**
FIHFC Scholarship
2021-22
Scholarship
Amount:-10000/-

**Dholakiya Tirth
Mayurbhai**
IAS National
Scholarship Test
Scholarship
Amount:-25000/-

**Dholakiya Manthan
Jitendra Kumar**
IAS National
Scholarship Test
Scholarship
Amount:-25000/-

**Tank prachi
Rajnibhai**
FIHFC
Scholarship
2021-22
Scholarship
Amount:-10000/-

**Patel Khushi
Ashaben**
HDFC Bank Parivartan's
ECS in School Program
2021 -22
Scholarship
Amount:-25000/-

**Sardhara
Mital**
FIHFC Scholarship
2021-22
Scholarship
Amount:-10000/-

**parmar
Raksha**
HDFC Bank
Parivartan's ECS
in School Program
2021 -22
Scholarship
Amount:-25000/-

FIHFC Scholarship
2021-22
Scholarship
Amount:-10000/-



Psychometric test:

Psychometric tests are an assessment tools used to objectively measure an individual's personality traits, aptitude, intelligence, abilities and behavioral style. Psychometric assessments are widely used in career guidance and employment to match a person's abilities and personality to a suitable career or role.

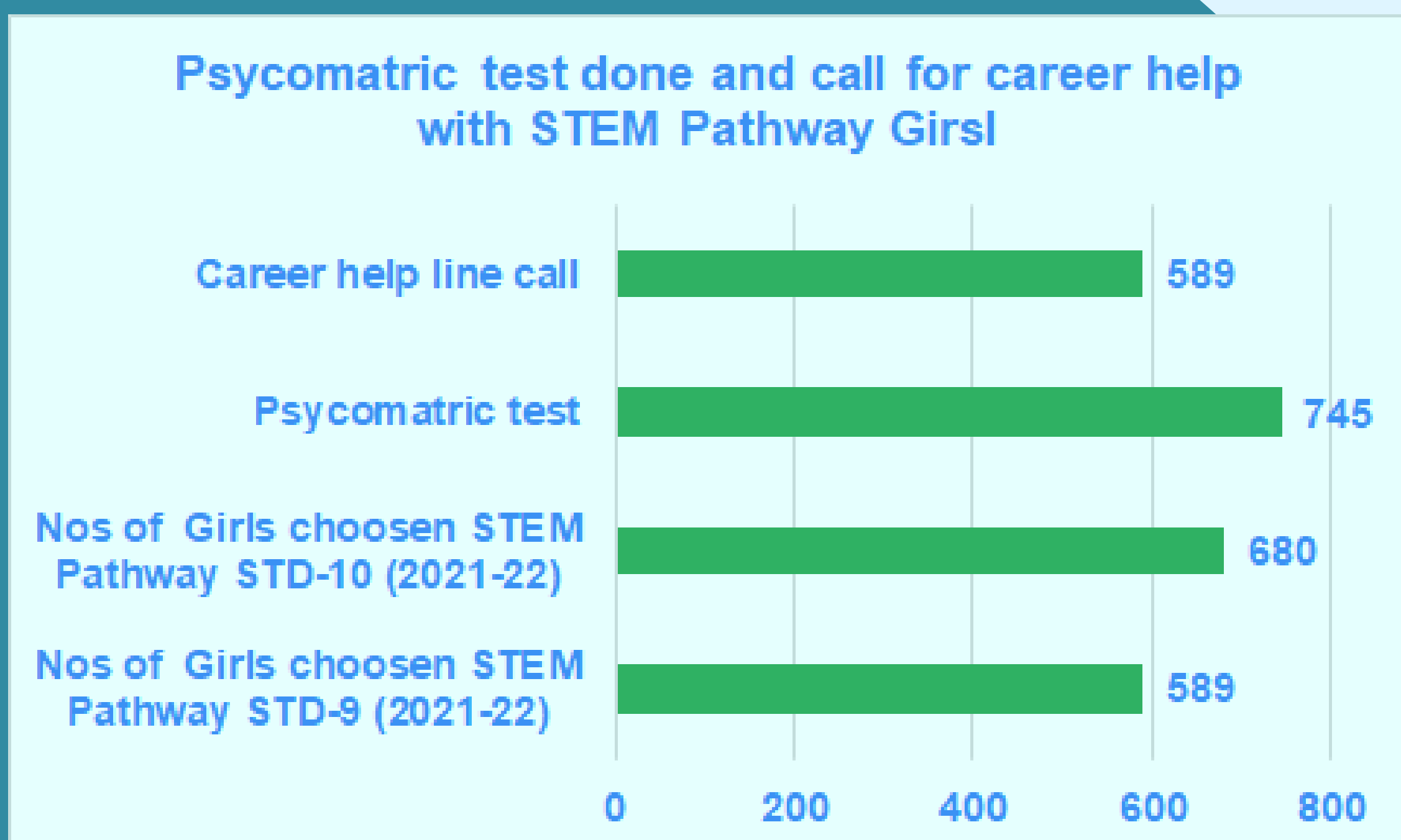
To help each student develop as an individual in his/her own right to make choices and set goals based on their strengths and also acquire life skills required to achieve the success in their chosen goals.

Objectives of the Career Guidance-Psychometric test are.....

- To make our 9th and 10th grade students more aware of themselves through Activities and psychometric assessments
- Expose our students to various career choices and suggest the most appropriate career path.
- To enhance their basic life skills for building confidence and overall improvement.

With the support of NIRMAN organization and VF team connected with the students and guided them for the Psychometric assessments who are studied in 9th and 10th in 2021-22.

Psychometric test It is a very impactful exercise for the students who are seriously trying to build their career. Students were happy to find out their potential through these activities. Some of the students change their mindset about studying for the next level.



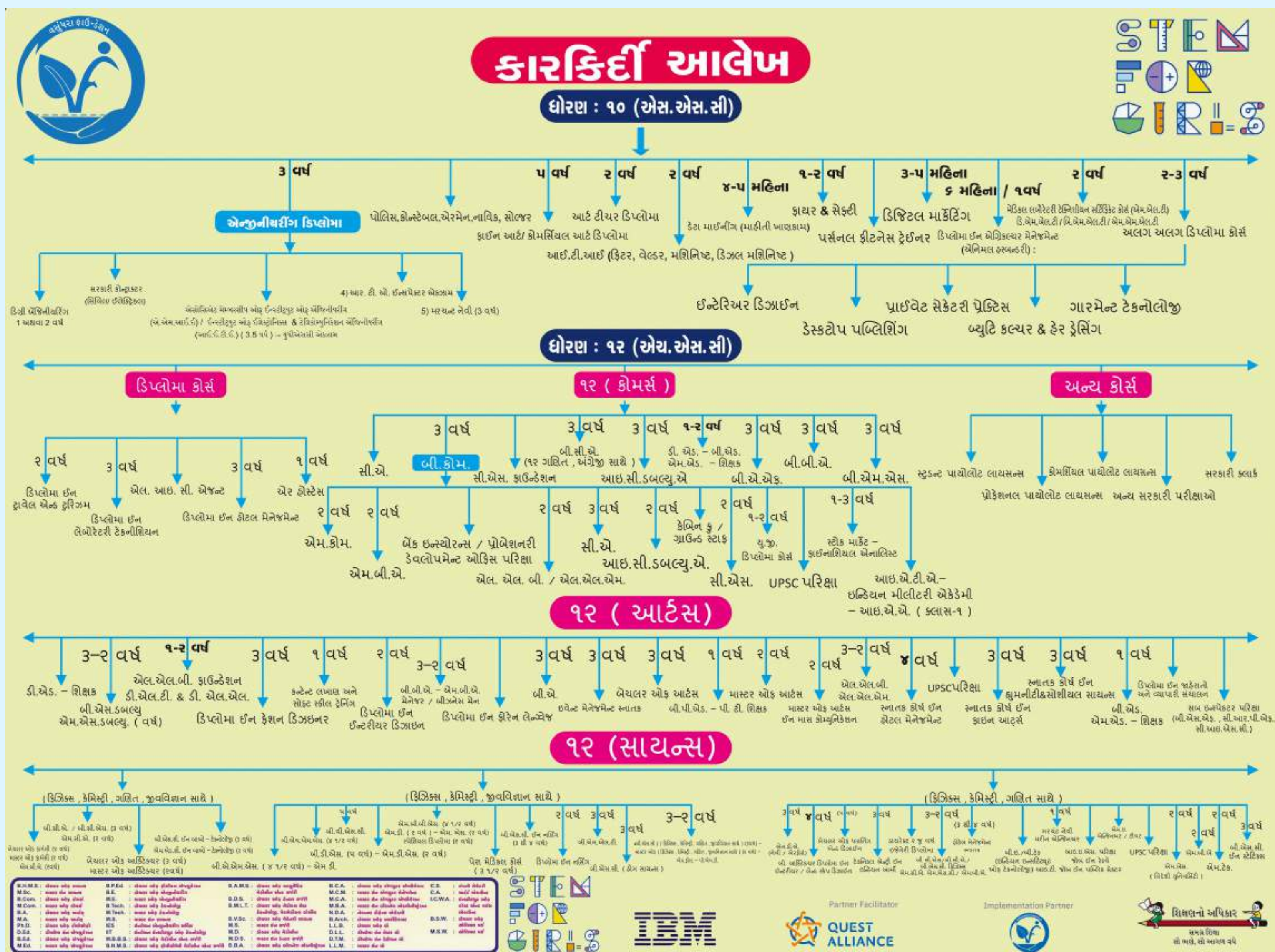
Career Guidance:

Students need career guidance to explore and plan for future career endeavors based on their individual interests, skills and values. Participation in career guidance enhances linkage of academic and career experiences and thus, improves career preparation and management.

We observed that very few students have an information regarding their career. however students are not aware about their interest ability. Far too many people are dissatisfied with what they do for a living. Why is that? They make mistakes when choosing a career and end up in an occupation that isn't a good fit. That's not surprising since going through the career planning process, including the four steps one should take when choosing a career, is difficult. It may seem like it would just be easier to pick an occupation out of a hat and this the fact.

We helps to the students for identify their interest and ability through psycometric test and after that we organize the session for the career guidance at school level.

For better understanding to choose the career we developed a career chart in vernacular language and gave the print of chart in big desply size and paste it at common wall in the all schools.



Mobile Phone Library

Mobile phone Library

Poverty need not be a barrier to children accessing and enjoying books. Especially in times of school closures, the mobile library gives children the opportunity to continue reading from home, which is now more important than ever to prevent learning loss. The aim of the project is to give children the opportunity to practice reading and learning, to contribute to fighting the global learning crisis during the lockdown the globe.

While SFG project is implemented in rural area and especially in tribal Dang District, there was a very difficult to connect the students during Covid-19 lockdown, our team helped learning on the go. "Mobile Library" is become a life line for those girls who wish to continue their study. 51 nos. of Nokia C3 Model mobile purchased and established mobile library in previous year that mobile were used during this year with monthly internet data pack to the Girls students for the continuation of their study.

Mobile recharge:

Some of students founds who are eager to continuous their study but they are struggling for the bare the cost of internet recharge cost. Our team has been identifying those students and recharged their internet pack with their existing numbers.



Mobile Phone Library



Madari Madhu
Mobile phone library users @ Satlasana-
Mehsana District

She continuous their study with lots of challenges

Science day & week celebration:

National Science Day is celebrated all over India with great enthusiasm on February 28 every year (starting from 2009) to commemorate the discovery of the Raman Effect by the Indian physicist, Dr. Chandrasekhara Venkata Raman (C V Raman) on the same day in the year 1928. He was awarded the Nobel Prize for Physics in 1930 for this discovery. National Science Day is celebrated as one of the prominent science festivals in India every year. We decided we will organize a day in each school during the week started from 28th February, 2022.

Vikram A Sarabhai Community Science Center (VAS-CSC) is located at Ahmedabad. They have lot of funny and easy to understand the science, math's tool. They have Science on wheel facility. We decided that this facility should reach to our students. Our director and Project Manager met to Director, VAS-CSC and convinced to the Science on wheel facility can comes at our schools in mehsana. Our PM and Facilitators played a role for the coordinator between schools and VAS-CSC.

Suman school of science has a developed a well-equipped mobile van with lots of science awareness tools. They have so many funny ideas and experiments and 3D/7D shows to brock the myths with scientific fact. Through these tools and technics, they designed full day program for the primary to higher secondary students.

We planned for celebration of Science Week as part of Science Day celebrations with the collabration of VAS-CSC in three schools Mehsana districts schools and Suman School of Science in Dang, Surat, Narmada and Mehsana in nine schools. We were accompanied by Mr. Rubel and Mr. Vismay from Vikram A Sarabhai Community Science Centre Ahmedabad and Mr. Manish and Mrs. Manisha who presented students with a practical activity to introduce them to Science, Mathematics, and Technology so students could understand the importance of each.

This was an amazing experience because all the students enjoyed every activity with a lot of enthusiasm and happiness. Also, they learned about STEM with specific examples.

We are very much thankful to the VAS-CSC and Suman school of Science for the support.

11

School
Participated

31

Teachers
Participated

1367

Students
Participated

Day celebration:

Independence Day Celebration:

On 15th August 2021, our team has been a part of this event in all school of Mehsana, The Dang, Surat, Chhotaudepur and Narmada district. As we have collectively worked together the same goes for even celebration. A local guest has been invited to this event; this day celebrated with followed of government guideline of social distance

24

School
Participated

161

HM/Teachers
Participated

1825

Students
Participated

105

Community
Participated

National Sports Day Celebration:

In India on August 29, 2021 on the Birth Anniversary of Major Dhyanchand. Some students also aim to lead India by becoming a sports person, as we have always discussed the holistic development of students, so sports are also a part of development activities. On special occasions, this day has been celebrated at Government Secondary School Ahwa and Government Secondary School Sakarpatal in Dang district as well as Government Secondary School Kolwan in Narmada district. Students and parents have become part of the celebration of this beautiful occasion.

Teachers Day Celebration 5th September, 2021

The birth date of the second President of India, Sarvepalli Radhakrishnan, 5 September 1888, has been celebrated as Teacher's Day since 1962. Children from 24 schools in our 5 districts participated in Teacher's Day. In schools, senior students take on the responsibility of teaching to show their appreciation towards teachers.

24

School
Participated

105

HM/Teachers
Participated

650

Students
Participated



Students engaged with various activity @ School level in every schools

Day celebration:



Gandhi Jayanti

is celebrated every year on 2nd October on the occasion of the poetry jubilee of Mohandas Karamchand Gandhi, who was Mahatma Gandhi. In which drawing competitions, oratory competitions, essay competitions were held in Ahwa and Sakarpatal of Dang district as well as Vankla school of Chhotaudepur in three schools. 99 girls and 93 boys participated in various activities

National Girls Child Day-24th January,2022.

National Girl Child Day in India is celebrated on January 24 every year. The day was an initiative of the Ministry of Women and Child Development in 2008. The objective behind celebrating the National Girl Child Day is to provide support and opportunities to the girls of India. It also aims towards promoting awareness about the rights of the girl child and to increase awareness on the importance of girl education, and their health and nutrition.

With the integration of Gujarat women and child development department we celebrated and joined with them as a campaigner and create awareness among "Beti Bachavo Beti Padhao" in Mehsana district.

Republic Day Celebration-26th January,2022.

Ever since the historic day, January 26 is celebrated with festivities and patriotic fervor all around the country. Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of progressive India and the glorious history of its people, culture and achievements. Azadi Ka Amrut Mahotsav is the embodiment of all the socio-cultural, political and progressive aspects of India Economic identity. The official procession of "Azadi Ka Amrut Mahotsav" started on March 12, 2021 in which 15 schools participated.



Students created model by their own on
Science day @ Nansad, Surat district



Day celebration:

International women's day 8th March,2022.

International Women's Day (IWD) is a global holiday celebrated annually on March 8th to commemorate the cultural, political, and socioeconomic achievements of women. It is also a focal point in the women's rights movement, bringing attention to issues such as gender equality, reproductive rights, and violence and abuse against women.

International Women's Day (IWD) on March 8th of the year is a real issue in commemorating the feudal, cultural, political and socio-economic achievements. It focuses on birds such as homosexuality, reproductive rights and violence and abuse against women, which is also a central point in the women's rights movement. In which Women's Day was celebrated at Waghai School in Dang district as well as at district level. Also, "Beti Padhao, Beti Bachao" program was conducted in Chokhwada of Surat district. In which Women's Day was celebrated in 2 schools as well as district level in Dang district in which 225 students and 32 teachers participated. In Ankhol school,district Mehsna celebrated the IWD at school level.

Youth Culture Program

These festivals are an integral part of education. Youth festival is an annual festival where young boys and girls from different schools assemble to take part in cultural and literary activities. These festivals have become a very important medium of interchange of culture and promotion of discipline.

Taluka level youth festival program was celebrated at Sakarpatal School in Dang district. In order to keep the tribal culture alive, traditional dances like Dangi nritya, Garba, Raas were kept. In which 92 girls and 60 boys participated

International women day celebration @ Ankhol, Meshana District



With the support of Head master of female teacher, identified the girls who can take a responsibility for the activity. Selected girls oriented for the responsibility of inventory management.



Menstrual Health Management Program

With the support of “Jal and Jivan Foundation-Selavi” we provided sanitary napkin incinerator machine for dispose used sanitary napkins safely. Used sanitary napkins are often disposed of in dustbins or open surfaces, thereby giving rise to various contagious diseases. We trained to girls for how to operate incinerator machine. Some of girls never seen the sanitary pad and those girls are using the pad now. Total schools and Girls are benefited through this activity. Girls are happy to use the sanitary pad.

Also, with the help of “Vandemataram organization” free sanitary pads were distributed to tribal girls at Ahwa Government Secondary School in Dang district.

5

School
Participated

1000
+

Girls
Participated



Training on how to use Incinerator machine

Vaccination Awaness



Birsa Munda

Ikoon of community empowerment
Statue @ Kolwan village, Narmda District

Covid Vaccination

Vaccination campaign for corona vaccine has been started for adolescents from 15 to 18 years in the country including Gujarat. When Chief Minister Bhupendra Patel launched a campaign to give corona vaccine to adolescents between the ages of 15 and 18 in the state, a team from VF play active role for create awareness among students and in schools in 24 government high schools in five districts and vaccination was completed.

Cycle Distribution

This scheme will reduce the literacy of girls in Gujarat, because of the lake of the sources and school on long distance. Girls of SC, ST and Backward classes will be encouraged for further studies with the launch of this scheme. We all know that class 9th to 12th is the main foundation of Education so this free bicycle scheme will do effort as a bridge for higher for education to the backward classes' girls of Gujarat. The team was very supportive in distributing bicycles to 265 girls in 6 schools from our organization. In which 265 girls in 8 schools have benefited.

Liasioning with Government and other NGO.

Liasioning with the government is a very much important part which can helpful to the STEM activity. Our team has identified and list down the government department who can help us for our activity.

During this year at the organization level we tried to establishment of convergence with the various government department like...Gujarat State Child Protection Society (GSCPS), Integrated Child Development Department (ICD, Women and Child Development Department., Water and Sanitation Management Organization and Gujarat information Department.

The Gujarat information department provided career guidance books to our students from their district office at Mehsana, Chotaudepur, and The Dangs.

The senior members of the organization, Facilitators and CRP visited the district level office and orientated them for the project and developed a rapport for the convergence of their scheme to benefit the students.

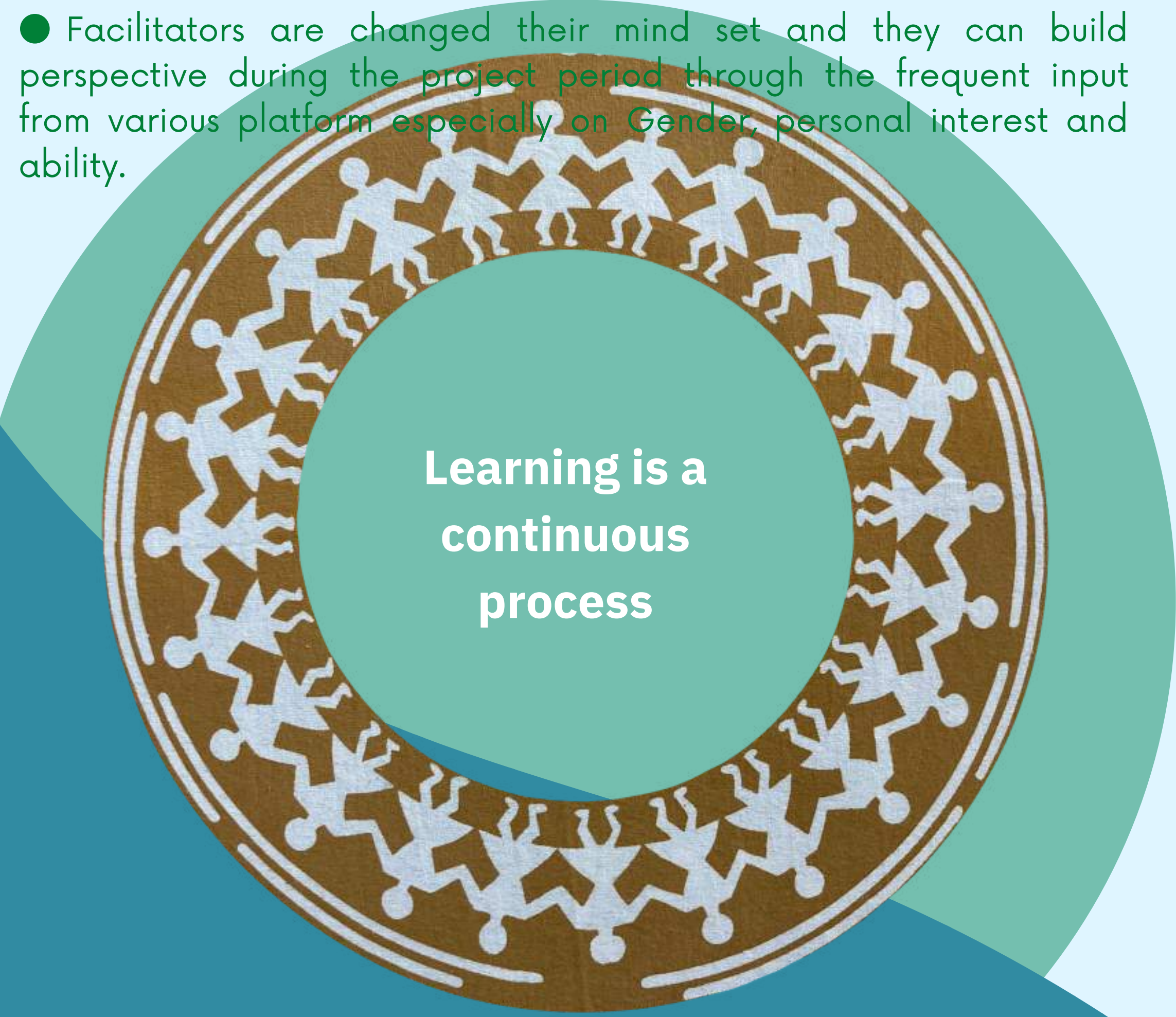
Our team as well as the director, project manager and CRP interviewed the organizations in Dang district as well as other districts. & Child Marriage) and discussed how to be helpful to one another.



Beti Bachavo Beti Padhao Abhiyan- Collabrations with WCD-Gujarat

Learnings, challenges & Way Forwards

- Students are less aware among their career. Psychometric test is very much useful tool for the know their interest and ability.
- In the school ecosystems some teachers found interested but due to the internal dynamic and some administrative limitation they can't involvement.
- In context to Tribal area - There is very less availability of Data network and Telecom Network so due to less availability we're not able to communicate with Facilitator regularly and delay happening with the reporting.
- This Project(STEM Education) has provided a lot of benefits and gave an opportunity to improve essential skills. Students are observed they are always ready to involvement enthusiastically.
- Due to lock down there was difficult to reach the workbook at student's hand. If that can be done timely then it will easier to deliver the content effectively.
- Technology can be always helpful for make easy to life. We observed that the other challenges are comes with the technology. We observed and face the issues to maintain the mobile library.
- Role models are useful tools for motivating and identifying their career with pathway to students.
- Parents were also enjoying the session with the curiosity about the feed
- Facilitators are changed their mind set and they can build perspective during the project period through the frequent input from various platform especially on Gender, personal interest and ability.



**Learning is a
continuous
process**

Way Forwards

- The role of education department is very important to run this type of project. If senior level officer proactivity involved then it will help us smooth project implementation and benefit the student as well.
- As we are facing problems to manage our project data, we have developed our own MIS on excel base. As per our observations we need sound MIS systems.

STEM STARS





SFG TEAM