

ANNUAL REPORT 2020-2021

2020 - 2021

BAREFOOT COLLEGE

SOCIAL WORK & RESEARCH CENTRE (S.W.R.C), TILONIA, AJMER

PREPARED AND PRESENTED BY

S.W.R.C BAREFOOT COLLEGE, TILONIA, AJMER

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With the Coronavirus pandemic bringing a new set of challenges this year, we're trying to do everything we can to ensure that India's most vulnerable families stay protected. We have taken several steps to address challenges that confronted Rajasthan, the nation, and the whole world during the past year. COVID-19 has dealt a severe economic and long-term setback to many, especially the poor, who are most affected by it. Barefoot College has been at the forefront of Covid relief efforts in rural India. During the first wave of the pandemic, the organization has stepped up to disseminate relevant information, providing necessary survival kits and medical supplies to the rural communities. We kept investing in research and development, and continued to launch new programs and curriculum in our solar and education department. In addition, we are proud to report that our sanitation, water, education, and rural livelihoods programs have grown during the year.

We have been able to impact the lives of 2.5 lakh families during 2019-20 alone through various projects in the domain of solar, education, water, sanitation, health and rural livelihoods(see impact) We have accomplished all this with a dedicated team working day and night to bring solutions to the problems, a massive battalion of passionate, committed volunteers, contributors, and people who have supported us with material, time, efforts, dedication, networks, and hard work.

As we embark on five decades of impact and change, it is a time to reflect and introspect. As an organization that has always been a pioneer for change, we look to restructure the systems and processes, keeping our guiding principles at heart. environmental regeneration and gainful employment building on existing skills, while enrolling individuals in the processes that govern their lives.

CREATING A SUSTAINABLE WORLD FROM THE GROUND UP



ABOUT OUR MISSION

Since its inception, the long term objective of the Barefoot College has been to work with marginalized, exploited and impoverished rural poor, living on less than \$1 a day, and lift them over the poverty line with dignity and self-respect. The dream was to establish a rural college in India that was built by and exclusively for the poor. For more than 49 years, Barefoot has worked to improve the quality of life of the rural poor, focusing efforts on basic needs: water, health, education, energy, environmental regeneration and gainful employment building on existing skills, while enrolling individuals in the processes that govern their lives.

Priority SDGs



Barefoot Solutions are targeting 15 of the 17 UN Sustainable Development Goals

Our Guiding Principles Inspired by Gandhi



Every team member is equally important and respected. Education, gender, caste or class does not make anyone else or more valuable



Collective decision making triggered by a largely flat organization that encourages a free flow of information and giving voice to the concerns of all groups, making everyone accountable to each other



Decentralization of planning and implementation at grass-root levels to enable and empower individuals to articulate their needs



Self-reliant ways that encourage self-confidence and joining hands to solve problems together



The staff leads a simple life working for the collective aspirations of rural communities rather than striving for individual material goals.



The staff is encouraged to learn and relearn by working in as many disciplines as possible.



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Impact created



1.5 Crore litres

of water recharged through rain water harvesting



8 lakh people

people received COVID relief ('survival') kits under the hunger free campaign



3.25 lakh kits

of 'Super5' (an indigenous nutritional supplement) distributed amongst the children suffering from malnutrition



1,255 livelihoods

were created during COVID-19 lockdown



4,700 saplings

planted to increase the green coverage



1,696 children

had access to quality education through solar powered projectors, tablets & mobile phones in remote schools



20,000 people

are being covered turning 4 villages into waste and plastic free regions



7 Innovative

projects a) solar projector, b) solar dryer, c) IoT based charge controller, d) solar shearing machine, e) Offline server, f) solar water vending machine, g) solar lantern developed under DST grant to address local issues



10,657 people

reached through puppet shows and street plays



60,000 people

benefitted through multiple broadcasts and information dissemination through community radio

01 EDUCATION

The pandemic exacerbated inequalities in education systems not only in India but across the world. The most affected were again the deprived vulnerable community i.e., children from a marginalized community. During lockdown keeping the government's instruction in mind, all the schools were kept closed. Which again resulted in our children out of school.

The need for time does not let us sit quietly but allowed us to rethink, revamp and redesign our teaching pedagogy to keep our children connected with education in much demanding need of unprecedented current situation.

However, it was a well-established assumption that no pedagogical approach can replace the peak position of classroom education due to having teacher-taught direct interaction. But, in the aftermath of the COVID-19 crisis, a different mode of education became pedagogical of teaching and learning at home.

ENABLING LEARNING BY DOING

Learning of any kind at Barefoot College is steeped in the actual doing of the process in a local scenario. Education follows the same maxim with academic subjects being distilled down to their relevance and application in a rural context. The conventional concept of schooling has no place in marginalized communities where children contribute in direct ways towards running the household. Thus a hands-on, learning-by-doing method is imperative. Children are also taught to appreciate and respect the traditional livelihoods present in their respective regions. With the combination of traditional wisdom and practical skills, we empower them to become active participants and leaders in their communities.



OUR SCOPE OF WORK

LISTED BELOW ARE THE ON-GOING INITIATIVES

Shiksha Niketan

A day school focused to provide holistic education to children belonging from low-income family. Teachers focuses on developing children's academic as well as social-emotional aspects.

School makes sure to provide all the children friendly space to learn and grow by themselves.

Total no. of teachers: 9 (44% female occupancy)

Total no. of students:471(48.7% girls)

Vidya Niketan

The institute intends to ensure quality education of children deprived of formal education. We make sure along with fundamental learning of numeracy and literacy our students inculcate democratic and moral values. School focus to encourage children from deprived sections of the community, and uplift them by means of education.

Our main objective is:

1. Connecting children with the mainstream school system.
 2. Provide a holistic learning environment.
 3. Build life skills like leadership skill.
- Schools deals with children who are often from socially and economically disadvantaged communities. School makes more effort to take 70% girls in the bridge school program.

Total no. of staff: 13 (38% female occupancy)

Solar Digital Night-school

It is for children from underprivileged communities, Solar-Bridge School model, popularly referred to as Solar digital Night Schools is an initiative to bridge the educational gap. Children who are not enrolled in any formal education between the ages of 6 and 14 gather at night to learn by the light of solar lanterns/lights. It provides experiential learning to the children in an informal environment that utilizes innovative learning tools to teach literacy, democratic values, environmental sustainability, and mathematical and scientific skills through smooth blend of traditional, modern and digital techniques. Currently we have 49-Digital night schools in 8 states.

Target age: 6 to 14

Teacher child ratio: 25:2

Average children in each school:25

SDG's addressed by all our programs:





ACTIVITIES AMIDST COVID

THE SCHOOLS WERE SHUT AMIDST THE PANDEMIC, HOWEVER, WE CARRIED OUT ACTIVITIES THAT COULD BENEFIT THE CHILDREN'S GROWTH

INITIATIVES

ACTIVITIES UNDERTAKEN

SHIKSHA NIKETAN

Library of Shiksha Niketan was made clean and new arrangement of books was done by staff. School is in under process of building fundamental structure.

VIDYA NIKETAN

Teachers were in constant touch with children from last academic year. Food kits (containing rice, wheat flour, turmeric powder, chili powder, salt, sugar, onions, potatoes, soap, mask and sanitizers) to the families of our 4(FFH-DNS) were distributed to the families of children who were in need. Teachers hosted and attended Zoom meeting

SOLAR DIGITAL NIGHT-SCHOOL

Teachers learned to connect on Zoom. Teachers understand the importance of social emotional learning. Teachers revised digital literacy knowledge, they learning how can we integrate digital devices in classroom with subjects. Teachers learnt preparing PowerPoint presentation which can be used in classroom.

02 WATER

Access to clean drinking water and sanitation are essential to the realization of all human rights. Since 1972, Barefoot College has pioneered the provision of sustainable drinking water and sanitation solutions to underprivileged rural communities. We are creating decentralized solutions that work at a village/community level to address these challenges. The aim is to place the solutions in the hands of the rural poor to make it both sustainable and effective.

At Barefoot College we build technologies and improve know-how to harvest rainwater, build dams, Use solar power to desalinate water using Reverse Osmosis (RO) and also develop the mapping and use of water in rural communities to spread awareness about Water Conservation.





OUR SCOPE OF WORK

LISTED BELOW ARE THE ON-GOING INITIATIVES

Rain Water Harvesting

Location: Khatoli, Kadampura

Project Objectives:

- To increase the ground water table and to recharge wells handhandpumps in the 5-6km radius of the pond
- To provide water to livestock and stray animals
- To give direct employment to 100+ people

Quantitative Impact:

1. Khatoli

- No. of villages to be benefitted: 4
- Wells Recharged: 25 wells for drinking water and irrigation
- Handpumps Recharged: 25 handpumps for drinking water purposes
- Benefits to agricultural land: 2500 acres
- Cattle: 8000
- Water Recharged: 1.00 Cr. Litres

2. Kadampura

- No. of villages to be benefitted: 3
- Wells Recharged: 45 wells for drinking water and irrigation
- Handpumps Recharged: 55 handpumps for drinking water purposes
- Benefits to agricultural land: 3000 acres
- Cattle: 8500
- Water Recharged: 0.75 Cr. Litres

Drinking Water Projects

Plant 1:

Location: Palladi, Number of Beneficiaries: 1700 villagers

Project Objective:

- Desalination of water in village
- To remove fluoride from water and tackle the related health issues

Plant 2:

Location: Singla, Number of Beneficiaries: 70 students at Vidya Niketan

Project Objective:

- To provide safe drinking water to children
- To remove fluoride from water and tackle the related health issues

Plant 3:

Location: Dhanau, Beneficiaries: Govt hospital and villagers

Project Objective:

- To provide safe drinking water to the hospital
- The waste water to be used in bathrooms in field centre

ACTIVITIES AMIDST COVID

WATER PLAYED AN IMPORTANT ROLE DURING THE PANDEMIC. PROVIDING WATER WAS OUR PRIORITY.



03 WASTE MANAGEMENT

Rural areas do not have waste management systems in place thus all domestic waste is dumped outside or burned unscientifically. This impacts animals, people, soil and water bodies, and the overall ecology of villages. The solution is to enable rural communities to design and set up low-cost waste management systems, operated and managed by the community.



PROJECT OBJECTIVES

- Our focus has been on sustaining the running operations in Chota Narena & Nalu through community contribution and involving Panchayat. In Nalu village, the Panchayat has taken the responsibility to pay the salary of the sanitation workers and continue the program.
- Reduction in carbon emissions through scientific waste disposal, improving air quality. Jobs created for persons from marginalized communities as cleanliness champions
- Improved sanitation and ceasing of open burning of plastics & in cooking reduces the health risk of various diseases and improves the air quality.
- Water sources are protected from waste dumping, village environment is clean and hygienic, drains are not clogged with waste hence preventing water stagnation
- Pockets of zero-waste communities created
- Ensuring no animals die due to ingestion of littered solid waste



04 COVID RELIEF

LISTED BELOW ARE THE UNDERTAKEN INITIATIVES

Hunger free villages

Hunger-free villages: COVID-19 lockdown where the daily wage labourers, migrant workers, woman and child with no source of livelihood, living in remote villages and slums were left without any food and savings. As a response to this humanitarian crisis, Barefoot College took the initiative to distribute essentials for survival that these affected poor families and individuals needs at the very minimum to tide over the crisis and to remain hunger-free. Working in collaboration with the Rajasthan government, Barefoot College identified the genuinely needy and distributed survival kits to them to ensure hunger-free villages. With the help of generous donations from donors like you our relief work from April 2020 to September 2020 reached out directly to more than 57,000 individual beneficiaries with 13,800 ready-to-eat food packets and 12,375 survival kits indirectly benefitting over 800,000 people in over 550 villages (and slums) across 11 districts of Rajasthan.

FOOD ITEMS	QUANTITIES
WHEAT FLOUR	20KG
DAAL	2.5KG
COOKING OIL	1 LT
SALT	1 KG
GROUND CHILLI POWDER	250 GMS
GROUND TURMERIC	100 GMS
ONIONS	2 KG
POTATOES	2 KG
SUPER 5	1.25 KG

Super 5

In addition, we reached out to over 2800 children with over 325,000 packets of 'Super 5' nutritional supplement as part of our Children Nutrition program that would help strengthen the children's immune system, especially during the pandemic. Barefoot College's in-house whole foods nutritional supplement 'Super 5' is made from 5 locally sourced ingredients - Chickpea, groundnuts, sesame seeds, jaggery and wheat. It helps in reducing anemia and fighting malnourishment, especially in children. Barefoot College's Super5 production unit has the government's FSSAI license. The relief efforts of Barefoot College generated over 650 livelihoods for needy women. Barefoot College also supported Grain Banks in over 20 villages of the states of Rajasthan and Madhya Pradesh directly benefitting over 4000 beneficiaries.



DISTRIBUTION SUMMARY

	DISTRIBUTION	BENEFICIARIES	VILLAGES
SURVIVAL KITS	12,375	57,095	564
SUPER 5	5,16,790	52,095	542
MASKS	72,396	57,095	564
SOAPS	12,375	57,095	564
SANITARY NAPKIN	9,487	7,910	-

05 RURAL LIVELIHOODS

Hatheli Sansthan works with the rural artisans of Rajasthan who has knowledge of their traditional arts especially of the craft and weaving. These Craftsmen and women mainly belong to Dalit communities and minorities working with them was a priority for the esteemed organization. In early'70s, poverty in the villages of Rajasthan forced many of the rural workers to migrate to cities. When they migrated in search of work-weavers, blacksmiths, porters, builders, carpenters and small farmers, their traditional skills were devalued.

The next generation would have grown up without any knowledge or pride in their tradition and their contribution to the economy. They sacrificed not only their families but also the organic knowledge of generations. Hatheli Sansthan began working with craftspeople to promote rural crafts to address these problems of migration and under development.

BACKGROUND

The Organisation has been continuously working along with the villagers from nearby villages in the handicrafts work since 1974 in which majorly underprivileged sections of the society and women are involved to uplift and give them a means of livelihood. With advancements of latest technology, the authentic handmade techniques of these rural artisans are on the verge of getting extinct and day by day there's a danger to their means of livelihood. So to revive these art forms from getting extinct and provide people with the means of livelihood, Hatheli Sansthan has been encouraging these artisans with latest designs which are in trend and in demand in the global markets. They are admired and encouraged for their intricate knowledge of their ancestral art form and their practice which is still alive to this day in their families. Integrated approach is followed in the dept where different units work in synchronization with each other like waste or left over fabrics which is no longer needed in stitching or production unit is used by Kabaad se Jugaad for making fabric covered handmade diaries and stationery boxes.





OUR SCOPE OF WORK

LISTED BELOW ARE THE ON-GOING INITIATIVES

Performance this year

1. Beneficiary target group/target areas

Majorly underprivileged and weaker sections of the society and women from the Dalit communities to uplift and given them a means of livelihood through arts and crafts work. Hatheli Sansthan is working in 49 villages of the state with more than 603 artisans.

2. Demography (give rationale behind selection)

In order to preserve the age old traditional arts and crafts of the rural artisans, Hatheli Sansthan is working in various villages spread across different parts of the state. Rajasthan is rich in age old traditional arts and crafts forms which are still in practice till date among various rural communities in villages. The villages close to Indo-Pak border on western part of Rajasthan are known for their intricate hand embroidered techniques of Applique, Kasida and Patchwork. Similarly, the villages like Jawaja are known for their leather products. Blue pottery is still in practices in the areas near Kotjaver –Jaipur.

3. Geographic location

Hatheli Sansthan is working in **49** villages in Rajasthan through its **2 main centers** based in Tilonia-Ajmer district and Dhanau-Barmer district of Rajasthan.

4. Impact created

Number of beneficiaries (direct and indirect)

A total of **603** artisans were given work during the year 2020-21 from the nearby villages of Dhanau Centre – **284** artisans and Tilonia Centre – **319** artisans. Villages include from district like Ajmer-**21**, Jaipur-**7**, Nagore-**2**, Barmer-**17**, Rajsamand-**2**.

Recognitions

- Appreciation of work done by Hatheli Sansthan in supporting rural artisans by Shri Vishram Meena, District Collector, Barmer during his visit to Dhanau Centre on 25th Oct 2020 was published in the regional news paper –“ **Dainik Navajyoti - Barmer** “
- Kailash Kanwar ji from Stitching Unit, Hatheli Sansthan – received “ **Enterprising Women of the Year 2020**” award in the category of CII Foundation Woman Exemplar Program.

Future Plans

Sales projected to increase in the upcoming financial year through website and Social media promotions, marketing, branding, new product development.

06 NURSERY

The Barefoot College has been involved with planting and greening in and around the campus and field centres for a long time, and has been pivotal in the shaping of the flora of the area in which it is situated. In the 90's two species, Prosopis Juliflora and Leucana Leucophala among others who were brought to the region and distributed widely along with Medh plantation schemes, attempts to green the surrounding hills and the catchments of rain water collection check dams built by SWRC.

The Barefoot nursery was started in the new campus in April 2014. The initial driving force behind establishing the nursery was to provide some useful plants to be grown around campus. The team which started with Bhairon Singh, Nadeem and Tarun grew to include volunteers like Karin , Jake , Sid , Jannis, Camilla as well as permanent members like Hanumanji, Dev Karan , Puran and Divya . The Solar Trainees and staff members can often be found helping out in the nursery, as it is a quiet green corner at the back of campus and working here is very therapeutic.





OUR SCOPE OF WORK

LISTED BELOW ARE THE ON-GOING INITIATIVES

Performance this year

To increase the green cover, the nursery department has distributed 100 saplings (majorly Neem, Sesame, Kahndir, Peepal) to Nalu Field Centre. During February 2021, plantation of Fruit Garden with 250 plants and medicinal garden with 110 plants were initiated and completed successfully which contains over 43 plant varieties at the Old Campus SWRC. For increasing more green cover in the Old Campus, 350 plants were planted from Warehouse and Meghan House.

Impact

Number of beneficiaries (direct and indirect):

Directly 9 individuals have been benefitted due to livelihood generation who have been employed to look after the activities carried out by the department. Indirect benefit goes to the villagers of tilonia, nalu as it helps in regulating the temperature and Oxygen level in the surroundings.

Quantitative impact: Total number of plants planted during the year comes up to 700.

Qualitative impact: Land reclamation has been done eliminating the invasive species in the area. Also, collaboration with the waste management department to ensure that the production of Compost takes place at regular times.

Future Plans

- Evolution/adaptation of current projects over time, new projects (if any): The proposed plantation drive at Rampura Village to plant 500 plants at an area of 20 bigas and Tikawara Field Centre at an area of 7 bigas.
- Milestones (no. of beneficiaries/resource conservation/livelihood generation/geographic expansion): Livelihood generation: 9 individuals are employed for looking after the works carried out by the nursery department. Hence they are getting wages paid.
- Resource Conservation: These green cover help in soil erosion and keep intact the native indigenous species.



07 COMMUNICATIONS

Community radio

The Barefoot Communications team is responsible for documenting and relaying human stories of courage and conviction drawn from a global landscape. The medium chosen to tell these stories is integral to reach both urban and rural audiences and provide information and updates on environmental and social problems, potential solutions and calls to action. We use a holistic blend of traditional and modern formats to target certain demographics effectively and sensitively.

Puppetry

This art form was the first mode of communication used by Barefoot College to encourage discussion and engagement around complex topics such as violence against women, money-lending, and others, using puppet theater. The puppetry team is an eclectic mix of artists with multiple talents. They make their own puppets, write their own script and sing live to talk about social issues that affect them as a society. They also work with teams across India who are keen to learn this format of discourse. They have performed with their puppets in over 100 rural villages, to spread awareness around important subjects





COMMUNITY RADIO

LISTED BELOW ARE THE ON-GOING INITIATIVES

Performance this year

Last year, the benefit of radio broadcasting was satisfactory to the people. 100 people got their labor cards made and about 150 people applied for pension. During the lockdown information was provided on girls' education, wear mask champion campaign in which 300 masks were distributed. Under the Poshan ki Potli campaign, awareness was raised on the importance of nutrition and diet. A total of 12 Outreach meetings and narrowcasting was conducted. 10 meetings were also held on mask champion campaign and girl education. 7 children of 7th to 8th Std of Shiksha Niketan were provided training about radio recording, editing programs and making programs on how story presented in a drama.

Different programs:

Feature programs were created on the occasion of World Radio Day, Republic Day, Martyr's Day, and International Women's Day where interviews were recorded covering opinions and sharing different stories of various people. A special program was created on SWRC – Barefoot College 49th Annual Day recording interviews and broadcasting it on the radio.

Programs running (programs/projects/campaigns)

- Room to Read Campaign – Girl Education Campaign
- BMGF Smart COVID Campaign
- UNICEF-Smart POSHAN Campaign
- AYUSH for Immunity (Commonwealth Education Media Centre for Asia)

Future Plans

- Build a team of Community Radio Volunteers (CRV) within the community.
- Organise Capacity Building Training Program for CRV
- Continue with the existing projects
- Take up New Projects related to awareness of welfare schemes information
- Participate in Gram Sabha and record it.
- New feature programs on community heroes.
- Disseminating Information on COVID appropriate behavior





PUPPETRY

LISTED BELOW ARE THE ON-GOING INITIATIVES

Performance this year

Wrote various new songs and puppet plays on social issues and to create awareness around COVID 19 pandemic.

Following are the topics covered in songs written this year:

- Constitution
- Covid relief kits
- Importance of hygiene at the time of Covid
- Malnutrition
- Hardships faced by tribes

Following are the topics covered in puppet plays written this year

- Our battle against Covid
- Police brutality
- Constitution
- Story of the struggle of a tribe for getting land

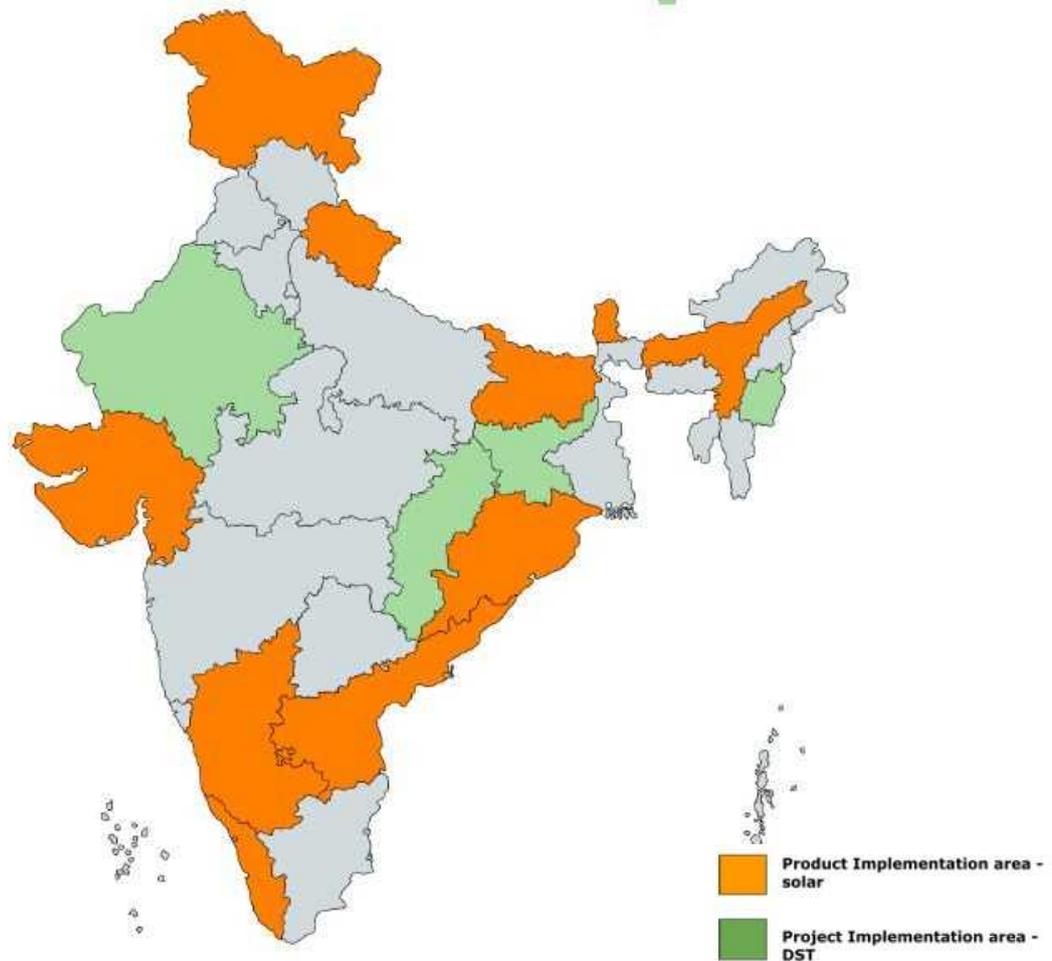


08 TECHNOLOGY

a. DST

Research and development department working on product development on solar technologies. Department focus on development of product that the community wanted to solve/ground level problem which is not addressed current available markets product We strongly believe in open source technology products development and spread technology products to beneficiaries.

The project involves activities to be implemented in five states (Rajasthan, Jharkhand, Chhattisgarh, Manipur and Sikkim). The socio-economic status of most people living in the selected locations fall under marginalized, below poverty line communities. The operational areas have been carefully chosen to include the aspirational districts. These locations have been placed in the bottom half of Niti Ayog's aspirational district baseline ranking as of march





OUR SCOPE OF WORK

LISTED BELOW ARE THE ON-GOING INITIATIVES

Performance this year

- Baseline survey on aspiration districts
- Defining of product requirements based on survey
- Ran 7 projects under the DST seed division under the TARA group
- Solar projectors with offline servers installed in 20 locations
- Solar operated vending machine in Barmer

Future Plans

1. Edu-box (solar pico projector) - quick mobile charge support for tablets
2. offline server - Remote reading like COLIBRI
3. sheep shearing machine - Machine Design and solar power backup.
4. solar RO water filtration system for household use.
5. water vending machine product for community system.
6. IOT based REW solar charge controller- in house open source design
7. solar lantern - cost/mold friendly lantern design using latest open source technology
8. smart iot solar dryer controller product-open source design
9. 10 amp solar charge controller for lifepo4 battery (home lighting system with smd components training module for solar section) .
10. Fab academy lab registration and Fab academy courses training program (short 3month /long 6 month)



b. BIO- GAS

In the month of December 2020, Barefoot College Tilonia decided to repair and restart one of its defunct 30-year-old biogas unit to promote usage of clean cooking fuel and to develop an efficient manure value chain in villages of Rajasthan. To begin with, we collected resources from our Library to identify the design/technology of the biogas unit that was employed and to understand the reasons for low bio-gas uptake rates. We also learnt about the best practices needed to be followed to run the plants smoothly from various stakeholders

including Biofuel Authority of Rajasthan, Jaipur and Biogas Development and Training Centre, Udaipur. In the month of February, we started our repair and restart work. We mobilized labor, masons, tool kits, and raw materials for testing and repair. We required bricks, mortar mix for plastering and fixing the inlet tank, PVC pipe, slurry mixer, paint, air compressor, DG set, sewage jetting machine, wall putty, gas pipe and biogas appliances to complete the connection.

CONTEXT

It was observed that people in rural Rajasthan stock cow dung for 4-6 months before directly applying them on the fields, upon demand. What is proposed here is building a biogas unit which can meet the thermal needs of the and the digested slurry can be used as an enriched bio-manure as a replacement to the chemical fertilizers. Cow dung slurry has approximately twice the quantity of usable nitrogen as compared to applying cow dung directly on the fields, hence increasing crop productivity. Besides providing valuable manure and, hence improving soil fertility and crop production, biogas plants are better from an energy point of view (as much as 25% more energy) than burning cow dung straight. People traditionally use firewood for cooking and thermal needs. Reducing the dependency on firewood would mean significant savings in cooking fuel expenses, reduction in drudgery in bringing and burning fuel wood and related health hazards.





OUR SCOPE OF WORK

System Description

The system will function as a demonstration unit for promoting awareness about biogas and its applications.

- **Plant Size:** 6 m³
- **Technology:** Deenbandhu (Fixed dome) with brick masonry construction
- **Feed:** 100 KG of cattle dung everyday
- **Output:** Digested Slurry and Biogas (cooking fuel)
- **Appliances:** One 45 CFT burner and Two 16 CFT burners, One Biogas Indoor Lamp;
- **Current Status:** up to 2.71 m³ of biogas everyday delivered to the kitchen;

Performance this year

1. Beneficiary target group/target areas:

- a. We intend to install biogas units in houses where firewood/LPG is primarily used as a cooking fuel, especially where there are events of drudgery in bringing and burning fuel wood and related health hazards. Biogas units also require livestock (preferably a stall-feeding facility), land space and water for their daily operations.
- b. We intend to promote and install biogas units across Rajasthan (through field centers).

2. Impact created:

Through the demonstration unit, we saved 3.292 equivalent LPG cylinders (May-June 2021) and contributors who supply cattle dung (who otherwise dump it in open public spaces) earned income by selling it at INR 1 per KG. We also have generated enriched bio-manure (bio-digested slurry).

Future Plans

1. We plan to build an additional pit adjacent to the plant to lower the slurry levels and optimize the gas generation. In addition, we plan to use the digested slurry as feed material for vermi-composting.
2. Once the system is ready, with the help of the New National Biogas and Organic Manure Management Programme (NNBOMP), we plan to train our staff in construction and operation of biogas units across villages. We expect to have masons specialized in biogas construction and turn-key workers once the training is complete.
3. We can have three turn-key workers as staff and seek the services of masons, externally or internally based on constraints. It is to be noted that TKW are incentivized as they receive a TKW job fee of INR 2500 per plant.
4. To promote the use of biogas in villages and identify interested beneficiaries and help them link their units to the national subsidy scheme (NNBOMP).

09 SOLAR

Solar Electrification

The Barefoot Solar Department of India began in 1984 with a mission to train illiterate and semi-literate women from marginalized villages around the world to become Solar Engineers. Barefoot Solar Engineers (fondly known as Solar Mamas) are taught hands-on skills in solar electrification. Once trained as solar engineers, the Solar Mamas return to their villages with skills and equipment to electrify at least 50 homes each.

Barefoot College Solar Program

The expansive effect of deploying solar energy by women in their communities for decades resulted in the replication of Barefoot's flagship solar electrification program globally from 2008. The Barefoot College Solar Program, supported by the Indian Technical and Economic Cooperation (ITEC) – a Division of the Ministry of External Affairs, Government of India, is a six-month program conducted twice a year. It is a collaborative effort between Barefoot College, ITEC and the respective Governments and NGOs (Ground Partners) of the participating countries. The Barefoot approach involves creating community-level capacity for building, installation and maintenance at a grassroots level, with villages being held accountable for their own resources.





2200 SOLAR MAMAS



93 COUNTRIES



100000 WITH LIGHT



THE SOCIAL WORK AND RESEARCH CENTRE, TILONIA

Balance Sheet as on 31st March 2021

Particulars		Note No.	As At 31st March 2021	As At 31st March 2020
INR				
I. SOURCES OF FUNDS				
1	Reserves & Surplus	1	5,99,83,407	10,16,48,437
2	Loans Liability	2	-	45,96,506
3	Current Liabilities			
a)	Un-Utilised Grant	3	2,63,25,247	1,60,33,306
b)	Other Current Liabilities	4	2,73,84,350	3,47,73,975
Total			11,36,93,604	27,70,48,224
II. APPLICATION OF FUNDS				
1	Fixed Asset			
a)	Gross Fixed Assets	5	5,83,12,987	5,91,36,967
b)	Depreciation		(92,90,257)	(73,35,581)
c)	Net Fixed Assets		4,90,22,730	5,20,01,386
2	Current Assets			
a)	Cash & Bank Balances			
i)	Cash and Cash Equivalents	6	1,66,24,050	10,80,25,697
ii)	Investment in Fixed Deposits	7	52,61,491	5,95,66,078
b)	Loans & Advances	8	1,78,58,668	2,06,03,525
c)	Other Current Assets	9	2,29,26,645	3,68,51,538
Total			11,36,93,604	27,70,48,224
Significant Policies and Notes forming part of the financial statements		14-15		

For and on behalf of the Board of Directors of
The Social Work and Research Centre



(Signature)
(Sanjit Roy)
Director

(Signature)
(Susan Abraham)
Treasurer

(Signature)
(Manoj Kumar)
Accounts Incharge

Place : Tilonia
Date : 08-10-2021

For Sanjeev Shrawan Gupta & Co.
Chartered Accountants
Firm Regn No. 0005867C



(Signature)
Sanjeev Gupta
Proprietor

Membership No. 074509
UDIN - 21074509AAAAA079012

THE SOCIAL WORK AND RESEARCH CENTRE, TILONIA
Statement of Income and Expenditure for the year ended 31st March 2021

INR

Particulars		Note No.	For the year ended: 31st March 2021	For the year ended 31st March 2020
I.	Income			
	Income from Grant/ Donations	10	23,38,52,482	25,33,51,960
	Other Income	11	1,74,32,901	4,27,38,514
	Total Income		25,02,85,783	29,60,90,474
II.	Expenditure			
	Depreciation and amortization expense	5	80,65,167	57,74,378
	Expenditure met from grant (Net)	12	22,85,38,630	22,82,35,795
	Expenditure met other than grant	13	1,89,85,405	2,69,18,176
	Total expenditure		25,55,89,212	28,09,28,350
III.	Surplus of Income over Expenditure (I-II)		-(53,03,439)	1,51,61,773
Significant Policies and Notes forming part of the financial statements		14-15		

For and on behalf of the Board of Directors
The Social Work and Research Centre



For Sanjeev Shrawan Gupta & Co.
Chartered Accountants
Firm Regn No. 0005867C



(Signature)

(Sanjit Roy)
Director

(Susan Abraham)
Treasurer

(Manoj Kumar)
Accounts Incharge

(Signature)
Sanjeev Gupta
Proprietor

Membership No. 074569
UDIN - 21074569AAAAHJ9812

Place : Tilonia
Date : 08-10-2021

11. DONORS AND PARTNERS

