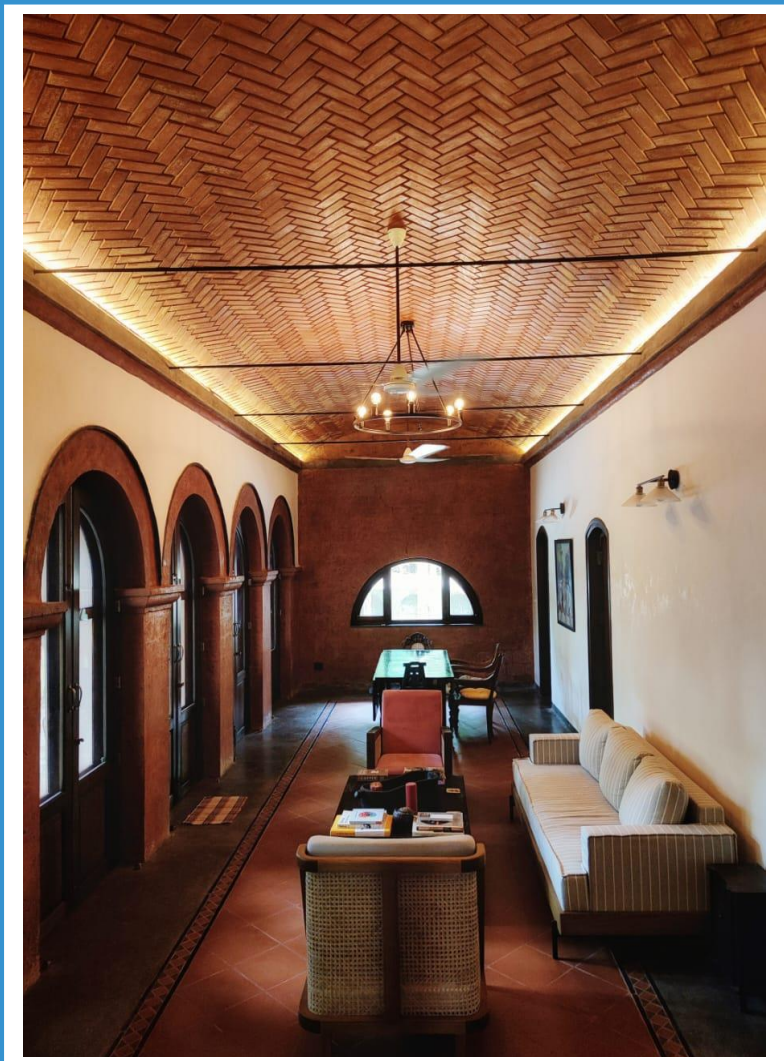
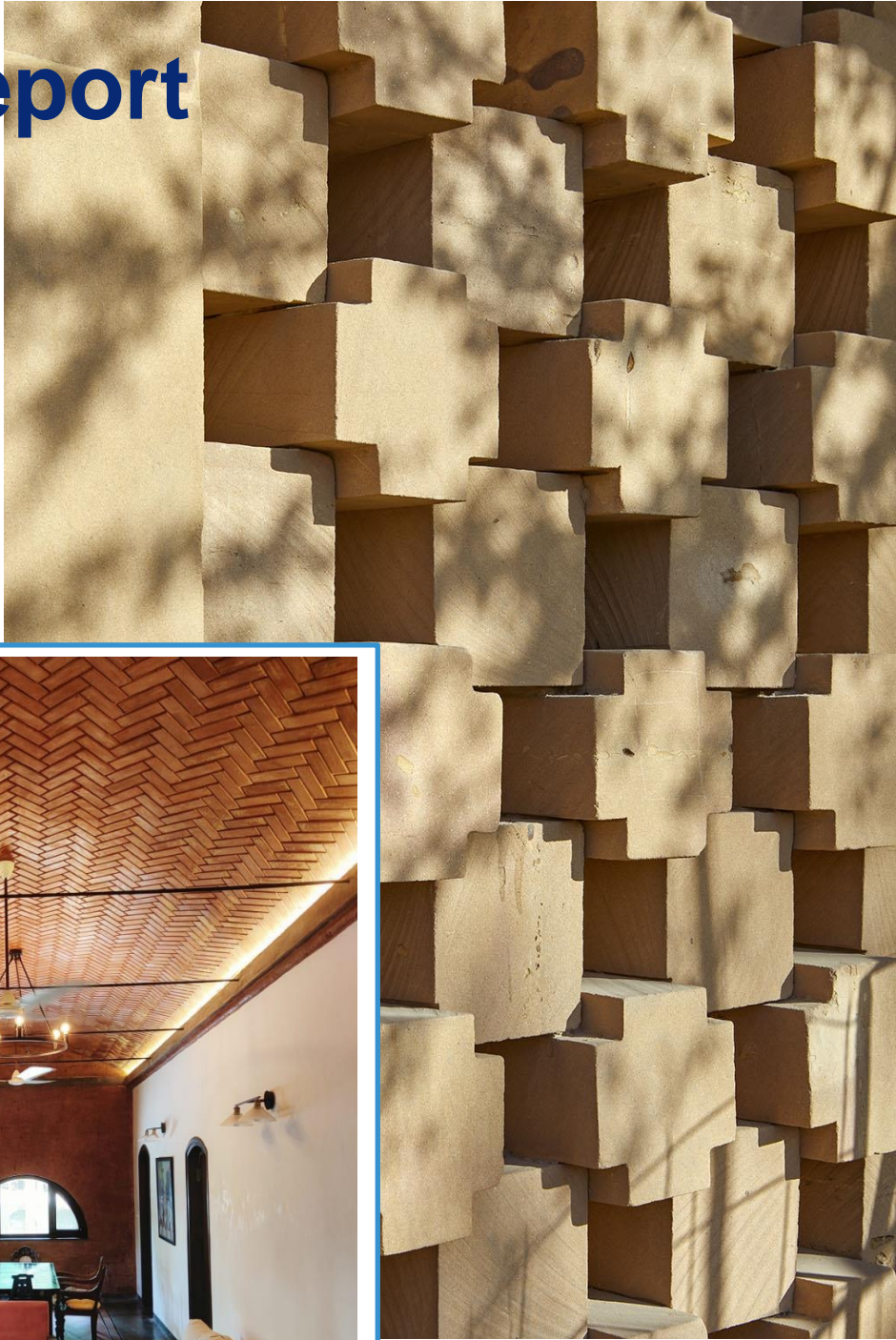


Annual Report 2021-2022



CONTENT:

1) INTRODUCTION

2) PROGRAMME

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- **ARTISAN EMPOWERMENT PROGRAMME**
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5) GOVERNANCE

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INTRODUCTION:

The massive earthquake of Kutch in the year 2001 brought together few professionals to form a Shelter Cell under the umbrella of Kutch Nav Nirman Abhiyan. This cell addressed facilitation of housing for the disaster affected people. As the rehabilitation work was on the verge of completion, a possibility to form a not-for-profit company to continue working collectively was seen by the professionals. In 2003, “Hunnarshala Foundation for Building Technology and Innovations” was incorporated as a section 8 company (formerly section 8 was section 25 of companies Act 1960) of the Companies Act 2013, with the participation of Kutch Nav Nirman Abhiyan, educational and scientific institutions like CEPT, IIS, CSR Auroville and companies like HDFC, Gruh Finance and Transmetal Industries. Hunnarshala initiated its journey with the cause of disaster rehabilitation. During this process, it supported the building of temporary shelters and permanent reconstruction for various governments, funding agencies and NGOs. Over the years, Hunnarshala has evolved as an institution that provides an open platform to artisans, students, artists and professionals who collaborate for contributing, learning or developing ideas / technologies, thus becoming part of this movement. Through these collaborations and inter discipline synergies, Hunnarshala envisages to create awareness on sustainability. We feel it’s time to share the knowledge gained during its journey in a structured manner through education programs developed for various sections of our society be it artisans, students or communities.



2) PROGRAMME

EDUCATION PROGRAM AT "KARIGARSHALA"

કારીગરશાળા વર્ષ 2021-22 માં કોવિડ_19 ને કારણે 15 નવેમ્બર-21 થી કારીગરશાળા ની શરૂઆત કરી હતી. નવા અભ્યાસક્રમ મુજબ ગણિત ગુજરાતી પદાર્થ, વિજ્ઞાન, સ્કેચ, ઇન્જીનરીંગ ડ્રોઇંગ, લાયબ્રેરી, હિસાબ માટે નામું પડતર કિંમત કાઢવી વ્યાપારિક સાહસિકતા, અને કાફ્ટ વર્ક સાથે એક વર્ષ ના બદલે દોઢ વર્ષ ના અભ્યાસક્રમની શરૂઆત કરી હતી .

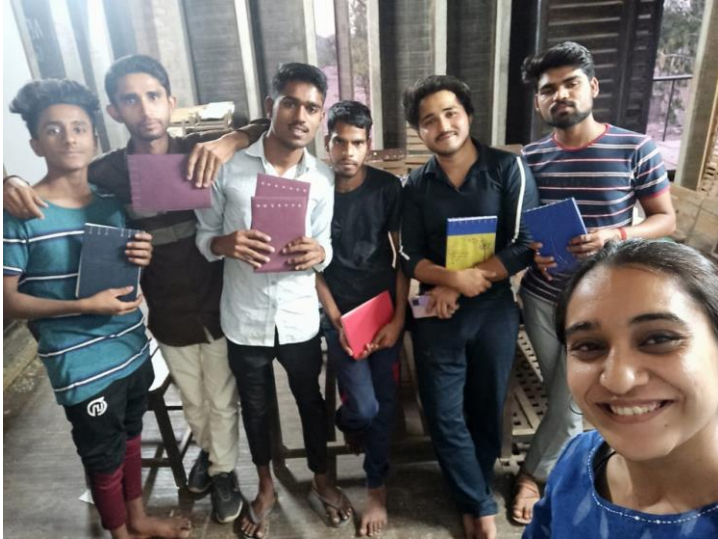
પ્રથમ છ મહિના બેઝ કોર્સ

બીજા છ મહિના એડવાન્સ કોર્સ

ત્રીજા છ મહિના માસ્ટર્સ કોર્સ

કારીગર શાળા માં આ વર્ષે જુદા જુદા વિષયો માં નિપુણતા ધરાવતા અનુભવીઓ દ્વારા અભ્યાસક્રમ ચલાવવામાં આવેલ જેમાં પુનિતભાઈ સોની,કિરણભાઈ સુથાર,ધર્મેન્દ્રભાઈ શાહ ,કમલેશભાઈ બારમેડા,રમેશભાઈ સંઘવી,જ્યોત્સ્નાબેન પટેલ,રહિસા પટેલ વગેરેનો શમાવેશ થયો હતો.





COMMUNITY EMPOWERMENT DIVISION:

1. Demonstration Project of C&D Waste in Bhuj:

Hunnarshala Foundation submitted a detailed proposal to the Bhuj Municipality to facilitate this process. Initially, Bhuj municipality agreed to provide support for civil work for recycle plant and other facilities. But due to some issues municipality is not able to do so. Hence, Home in the City (HIC) supported to complete the civil work.

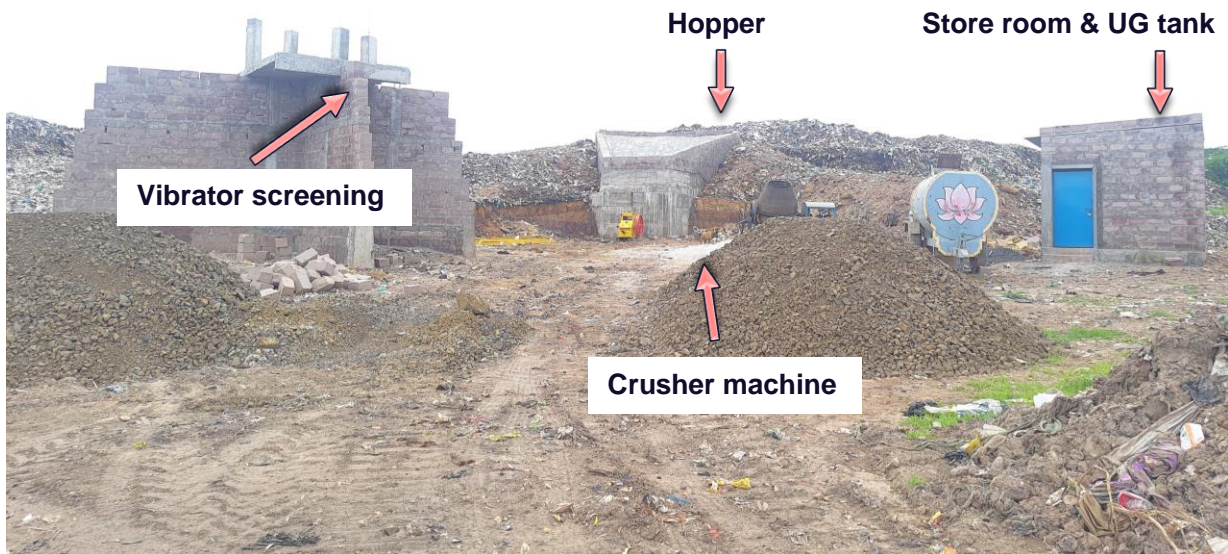
Till now, approx.. 3,000 sq.mt land, water connection provided by Bhuj Municipality and electricity connection work is in progress.

The civil work for all the machinery, store room & underground water tank work is completed. Installation of crusher machine ahs been done on site. Installation of vibrator screening, conveyor belt is in progress.



Inauguration of C&D waste recycling plant by Honorable Shri Nimaben Acharya Speaker Gujarat Legislative Assembly & Bhuj Municipality President Ghanshyam Thacker

C&D waste recycling plant



Construction & Demolition Waste Recycling Plant.



Crusher Machine and Hopper



Vibrator Screening Completed Civil Work

2. Co-create City (ACHR Support):

Co-creation is a process workshop that takes place in one of the network countries twice a year under the Community Architects Network; an initiative of ACHR. Last year the Community Architect's Network focused on decentralizing co-creation due to COVID-19, allowing the partners in the network to work with communities and key actors under their respective context and setting where it is appropriate in this situation. All the network countries including Bhuj, India, and partners aimed to compile the understanding of the effect of covid-19 (Research) that affects the marginalized group and highlight the possible way they can mitigate the effect and mobilize themselves through these situations. And disseminate these findings through the network and open to the public as open-source through articles, training and workshops, webinars/seminars, and short films about the participatory activities they did in their context. In Bhuj, the Community Empowerment unit of Hunnarshala along with the support of KMVS and Sakhi Sangini worked with the Ramdevnagar community to make them self-sufficient and resilient in these unprecedented times through:

- A social process; community activation and committee formation through rigorous meetings on-ground which motivated them.
- DEWATS training and making the system function to use the recycled water at the community level; help the community in terms of savings and social security.

At the city level, a curated learning course of 15 days was organized in collaboration with different partner organizations under HIC, engaging youth from the slums and Kutch University which made them aware of the issues of housing, environment, water, food, gender, and governance. We made a short film on all of these activities at the community level and city-scale and also wrote an article on the same.



Ramdevnagar community- Self resilient community development and urban transformation

3. Madhya Pradesh Rural Tourism:

Government of Madhya Pradesh, through Madhya Pradesh Tourism Board (MPTB), has envisioned a program for responsible rural tourism across the state through mobilizing and empowering families staying in several villages with tourism potential, within themselves and/or regions around. The tourism will be promoted through development of homestays in selected villages. Currently 100 such villages have been selected around the state. To select the appropriate families in these villages for whom these homestays will be developed, local organizations have also been appointed to assist with the ground work and to handhold the families with the process. Each village will be expected to have 6-8 curated homestays, providing experience of traditional living and accordingly incorporate traditional architectural styles.

Hunnarshala has been currently appointed for designing homestays for 30 villages out of the above-mentioned 100 villages. The agreement was made between Hunnarshala and Madhya Pradesh Tourism Board in August, 2020. The work has been impacted due to the pandemic, however the team of Hunnarshala has visited all the 29 villages and come up with required designs with the participatory discussions with the communities involved.

Along with these, Hunnarshala have also visited 20 villages (out of these 30) to develop the possible infrastructure facilities in these villages with the multipurpose functions, guest rooms, craft shops etc.





4. RAY Project:

The project of slum redevelopment with 304 new houses is in completion stage.

At present 250 houses are completed. 15 houses which were rejected due to several social issues and rest of the major houses are at the level of finishing.

Recently, Bhuj Municipality consider finishing house as completed and paid remaining amount of the finishing stage to the beneficiaries.

For Implementation of Infrastructure work, the infrastructure component also has 5 parts, but now municipality will complete only 3 parts mentioned below.

- i) C.C Road, Water Supply & Drainage work
- ii) Other Infrastructure Facilities like, Paver block, Plantation, Kids playing equipment, Otlas Etc.
- iii) Solar Street Light.

5. Sahyadhri School :

This year the construction work at Sahyadhri School entered its fourth year. The last year has posed challenges in the form of Covid, artisan's shortage and unpredictability, and new time bound projects in the school. However, the New Admin building was completed and inaugurated, one part of the Guest House is close to completion, and the retrofit of the wings of two old dormitories was also completed and handed over. In the completed and nearly finished spaces, there have been interesting explorations with finishes in the form of mud lime plasters, mud floors, wattle & daub walls and lime plasters as well. The IPS floors were done in collaboration with artisans from Auroville with the support from Dustudio.

Apart from this, several designs for new constructions and renovation have also been shared with the school at various stages along with the overall Master planning of the campus; this includes the retrofit of a residence, the security cabin, the existing Nissan Huts, the rural outreach and the Dining Hall extension.



Guest House Block-2 completed & inaugurated at Sahyadri School



New Admin building completed & inaugurated at Sahyadri School



6. Dhyan Kutir, Amarkantak:

Hunnarshala was approached by MPTB for the design and construction of a Meditation and Wellness center in Amarkantak, in the Anuppur district of Madhya Pradesh. The site is 20 acres and situated in a Sal forest.

A site visit was done in the presence of senior officials from MPTB. During this visit we saw the site in detail as well as did a brief study about the materials available around the site. Discussions about the project were conducted with the senior officials about the requirements.

The program of the project included spaces for Reception and Arrival Lounge, Business Center, Kitchen and Dining for seventy guests, Accommodation for 50 guests (Dormitories, Semi-luxury and Luxury cottages), Meditation and Yoga Halls, Wellness center, Staff Accommodation and Backend Services.

The built up is sparse, and uses 75 percent of the site. The remaining 25 percent is left in its original state. The center is planned in an ecologically sensitive manner with a low density of built spaces. The eastern part of rural MP has a rich palette of materials and construction practices and these are taken into consideration in the design.



7. Patdi Resort:

A 20 room 'eco-resort' is proposed in the little Rann near Patdi village in the Surendranagar district. The site is located near a water body, and is adjacent to forest area. The site is technically challenging due to very high water-table, and very high salinity in soil and water.

The eco-resort campus is proposed to exhibit traditional building technologies reflecting the local practices, and hence strive to have low environmental footprint, with comfortable indoor environment. Through use of traditional building technologies, the project is also expected to engage various relevant traditional building artisans, and artisanal teams, and is expected to develop sustainable and environment friendly built-systems.

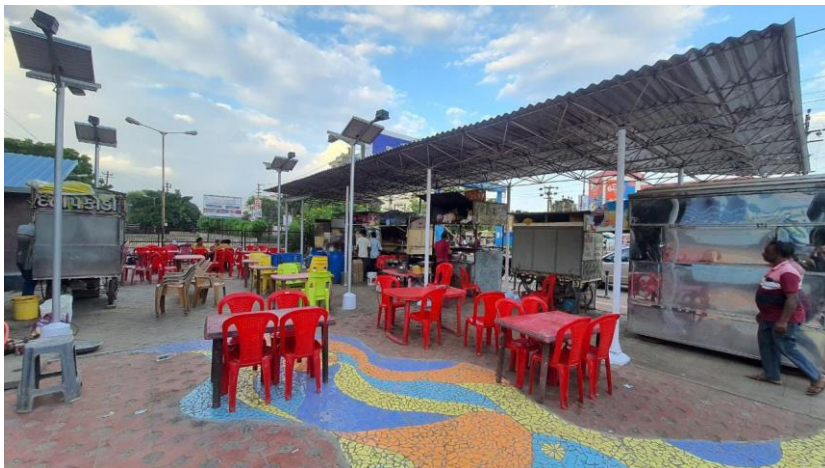
The project will be designed to uphold the following values:

1. Strive to develop a campus with net-zero or near net-zero carbon footprint, taking cognizance of the climate change issue.
2. Ecologically enhance the arid - semi-arid production of biomass and fauna
3. Ensure that social justice principles are followed for all workers during the implementation of the project
4. Develop and disseminate solutions, especially building elements developed by craft artisans of the region, through educational and experiential workshops.

The development is proposed in a phased manner, where only six rooms are proposed in the first phase along with the supporting services. The landscape development is to be done with the concept of edible flora, and is being led by two landscape designers, one based in Bali and another in Ahmedabad.

8. Support to Urban Street Vendors:

The pilot vending zone was given an NOC for implementation by the Bhuj Nagar Palika (BNP), and the implementation began with the ground breaking ceremony led by the BNP president. Currently implementation on site is undergoing, and in parallel funding is being sought for other vending zones. The implementation of the pilot is financially supported by Misereor.





9. [3D Heritage Mapping:](#)

The project was done in collaboration with CEPT University, Ahmedabad and Nottingham Trent University, UK. The project entailed documentation of traditional settlement using a 3D laser scanning process, with the focus on earthquake damaged and vulnerable settlements. For this, a village in Rapar, Kutch called Bela was chosen. The documentation process involved extensive engagement of the local community. Two workshops were held in Bela for this purpose, and other workshops were held in Ahmedabad hosted by CEPT University. A research paper was published on this documentation process, and two other documents- a policy brief with recommendation on inclusion of this technique in earthquake rehabilitation policies; and a guidance document on usage of 3D laser scanning device was also produced.



10. [How to Train:](#)

The Asian Coalition for Housing Rights (ACHR) initiated the exercise of documenting processes and project from around the partner countries in South Asia with the purpose of sharing the experience with others who may like to replicate or take these processes forward. Accordingly, Hunnarshala prepared a booklet documenting the process of provision of housing to marginalized in Bhuj city. The booklet is available on ACHR's website <http://www.achr.net/collective.php>

HOW TO Build a Movement for Collective Housing



A guidebook

Based on

Stories of Slum Communities
from Bhuj, Kutch



11. Collective Housing:

Under the collective housing work, Hunnarshala has been providing technical support to KMVS in their work towards access to land and housing rights to the families in informal settlements in Bhuj. Accordingly, Hunnarshala has developed master plan for two informal settlements Sathwarawas and Juni Rawalvadi, along with modifications in the already prepared DPRs for another 1000 households in different settlements. Currently, the process of submitting these proposals to the authorities is going on.



ARTISAN EMPOWERMENT DIVISION

The artisan empowerment unit of Hunnarshala Foundation along with the support of artisan entrepreneur companies were involved in implementation of the following projects in the year 2021 – 2022.

1. Residence of Mr. Arpit Patel

Ahmedabad based architects, Mr. Raghav Patel of “rplus architects” contacted the Artisan Empowerment Unit of Hunnarshala for introducing eco-sensitive construction techniques in the residence of Mr. Arpit Patel at Gandhinagar.

The residence was constructed using in-situ stabilized rammed earth technique. Approx. 5000 cubic feet of SRE was constructed for the farm residence by artisans of Sau Hath.



2. Residence of Ms. Natasha Parekh & Mr. Philippe Shah

Ms. Natasha Parekh and Mr. Philippe Shah contacted the Artisan Empowerment Unit of Hunnarshala through their architect Mr. Buland Shukla to restore their traditional house, situated in Goa, using lime plaster coats, strengthening the building, adding new structures, renovating the old structure by incorporating tiled work arches and domes.

After completing the rammed earth work on the out-house, this year the old structures were renovated by incorporating arches and domes using tiles. The artisans of Lustre were involved in the construction process.

3 Mrudugandh:

Mr. Laxmikant Kapsikar is developing his farm at Yavatmal, Maharashtra. His vision for the farm is to reinstate the traditional practices in the field of agriculture, Soil and Water Conservation, Eco tourism, Building / Traditional Crafts, Animal Husbandry and Education.

After constructing a shelter using space frame and thatch roof for the cow and ox present in the farm, the farm was further designed by “Studio Dot” to accommodate guest rooms in octagonal shapes. Flooring, roofing, doors and windows work for 5 guestrooms were provided to individual artisans specialized in wood works and flooring. The doors and windows were made in Bhuj and were installed on site. Roofing works, which includes – wooden understructure, insulation with perlite, water proofing and terracotta tiles fitting for the 1st Octagon was completed in the current year. Flooring and platforms in the washrooms and floor board assembling on site was also completed.

The roof wooden understructure work for the second Octagon structures started in the current year.

The design team of the artisan empowerment unit designed a Decentralized Waste Water Treatment System for “Mrudugandh” farm to treat 17000 liters of waste water generated by the facilities. The foundation work for the DEWATS construction was completed this year.





4. Mango Tree House

Mr. Jatin Parekh, who was interested in constructing his farm house in a mango plantation farm near Vapi using natural materials. To understand the techniques further, he along with his daughter participated in an Introductory Training Program. His house has been designed by Architect Rhea Shah.

Stabilized Rammed Earth walls, filler slabs, mud roll ceiling on wooden roof understructure with tiled roof was constructed by respective artisans.

The work is in progress and various artisan teams are providing their services as and when required.



5. Residence of Mr. Amit Seokhand, Goa:

Mr. Amit Seokhand, photographer by profession residing in Goa contacted the Artisan Empowerment Unit of Hunnarshala through Architect Ms. Priyanka Rustogi for application of Lime plaster, IPS on floor and walls and Terrazzo Floors.

The artisan team of “Lustre” are implementing the project. The work is in progress and will be completed in the next financial year.



6. Abohar Villa:

East Citrus Industries based in Abohar, Punjab contacted the Artisan Empowerment Unit of Hunnarshala through its Architects DCA group for involving the artisans for constructing a sample house of which the walls are of Stabilized Rammed Earth. The plan is to replicate villas in the farmland.

The artisan team of So Hath – 100 Hands, constructed sample walls followed by SRE walls on the ground floor of the sample house. Approximately, 7000 cubic feet of work has been completed on the ground floor. After the ground floor slab is casted, SRE on the first floor will be implemented, the quantity of which is around 8000 cubic feet.



Training Programs.....

Every year the Artisan Empowerment Unit conducts Training Programs for college students of Architecture / Engineering and professionals. These training programs are focused to introduce students and professionals to traditional construction practices using sustainable and natural raw materials like earth and wood. The training programs provide an introduction to soil sourcing, physical analysis of soil, laboratory tests required to be conducted while using soil as a construction material. The students participate in hands-on-sessions along with artisans on various construction techniques. In carpentry training program the students and professionals understand wood, saw mill processes, design joinery products and participate in hands-on-sessions.

- a) In the year 21-22, the artisan empowerment unit conducted Introductory training programs on eco-sensitive construction techniques. The unit published quarterly calendar for training programs which were conducted almost each month for professionals and students. The following Training Programs were offered:
- i) Earthen Construction techniques,
 - ii) Arch Vaults and Domes,
 - iii) Lime based construction,
 - iv) Flooring and Finishes
 - v) Carpentry.

Around 300 professionals and students participated in these training programs in the financial year 2021-22.

- b) After COVID, school and college student groups have started enrolling for customized Training Programs. In the financial year 2021-22, around 200 school and architecture college students





Research & Innovation

The artisan empowerment unit has collaborated with a research Scholar from MIT, USA to assist her in her research program wherein, she is studying the life of the salt pan workers and designing a prototype for their temporary shelters while they are harvesting salt. The AEU team is helping her to build the prototypes using easily available materials which can be dismantled and reused. The research work is in progress.

Evaporative cooling system (Research Programme with MIT Boston -USA)

Hunnarshala Foundation is working with farmers in rural communities in Gujarat, India. Hunnarshala Foundation is collaborating with the Massachusetts Institute of Technology (MIT) to implement a project to evaluate the performance of a new fruit and vegetable storage chamber and understand the impact of this low-cost cooling and storage solutions in helping to reduce post-harvest losses for fruits and vegetables at various stages along the relevant value chains. The results from this project will be published externally and shared with other practitioners in the field of technology for development.

The lack of affordable and effective post-harvest vegetable cooling and storage poses a significant challenge for smallholder farmers that can lead to vegetable spoilage, reduced income, and lost time. Most techniques for cooling and storing vegetables rely on electricity, which is either unaffordable or not available for many smallholder farmers, especially those living in remote areas are very low a day. Evaporative cooling technologies — the focus of the proposed project — hold great promise to address this challenge. Utilizing the natural cooling effect generated by the evaporation of water, these technologies can provide a cool and humid environment to prevent rot and dehydration. Evaporative cooling devices are best suited for use in regions with 1) a hot and dry climate, 2) some access to water, 3) a need for improved vegetable storage, 4) limited or unaffordable access to electricity, and 5) local access to the materials needed to construct evaporative cooling chambers (ECCs). These conditions are present in many low-income rural communities in Kenya and Gujarat, India where this project will take place.

The primary goal of the project is to construct mobile evaporative cooling rooms for vegetable preservation that are based on retrofitting a used 20' shipping container and use forced-air evaporative cooling as the mechanism for cooling the produce stored in the chamber. In addition to constructing and testing the chamber with fresh produce, interviews with farmers using the chamber will be conducted to gain an understanding of what value the chamber provides to users and what factors encourage or hinder adoption of the technology.

Progress : Container based system is ready and first trial with vegetables has been done and results are very encouraging where vegetables can remain fresh for longer time from 3 to 5 days .System Has very low energy consumption . At present Hunnarshala team is working on automation part of the system with the support of MIT. Next round of vegetable trial will be taken in October 2022. Visits of APMC market < whole seller as well vegetable vendor group will be called for exposure of system in October 2022.

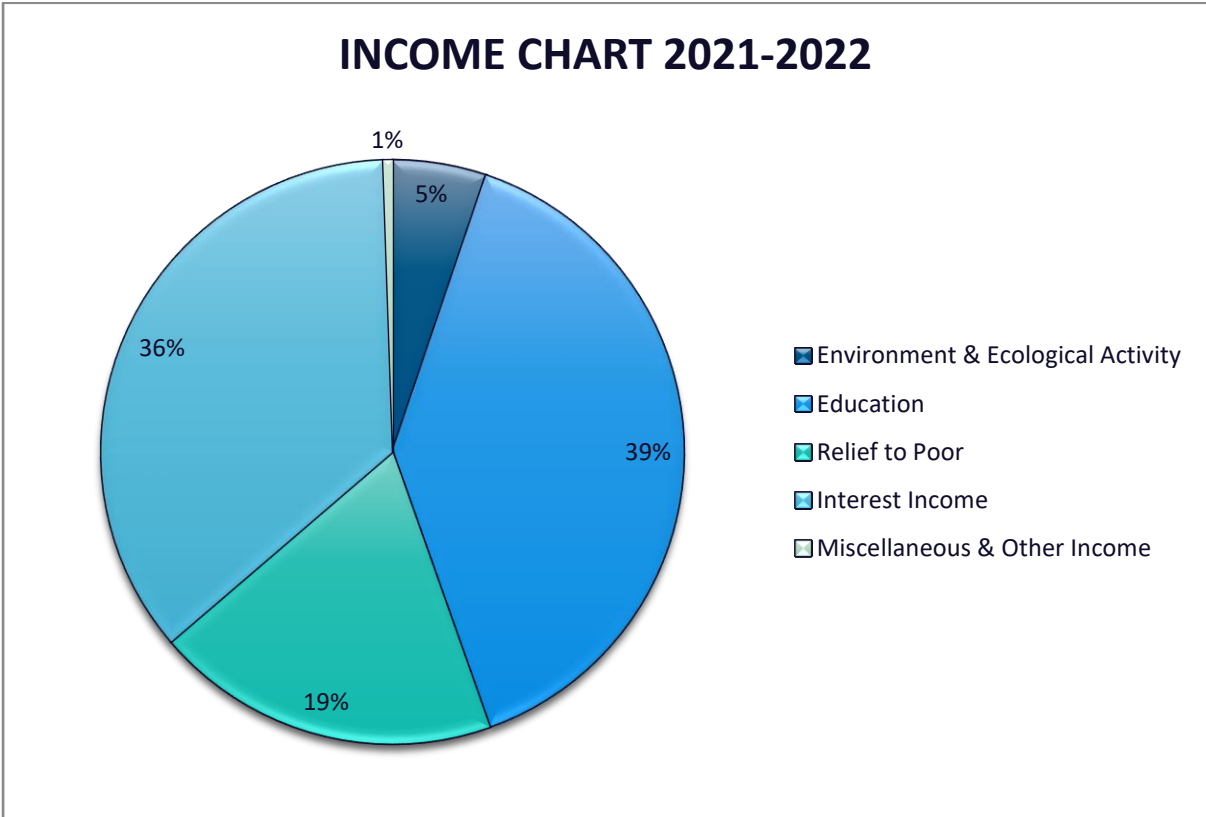


3) Finance

Hunnarshaala Foundation for Building Technology & Innovations						
CIN : U45201GJ2003NPL042739 Licenced under section 8 (1) of the Companies Act, 2013 Section 8 Licence Number : 7/ (25/N) 4/03 / 4359						
Hunnar Shaala, Plot No. 8 to 15, Mahadev Nagar-1, Bhuj Mandvi Road, Bhuj Gujarat 370001 India						
BALANCE SHEET AS AT 31st MARCH 2022						
	PARTICULARS	Note No.	As at 31-03-2022		As at 31-03-2021	
			Rs.	Rs.	Rs.	Rs.
I.	<u>EQUITY AND LIABILITIES</u>					
1.	Shareholders' Funds					
	(a) Share Capital	2	1,01,000		1,01,000	
	(b) Reserves and Surplus	3	13,74,56,745		14,05,99,826	
				13,75,57,745		14,07,00,826
2.	Current Liabilities					
	(a) Trade Payables	4	1,93,188		31,171	
	(b) Other Current Liabilities	5	13,25,468		32,91,555	
	(c) Short Term Provisions	6	645		700	
				15,19,301		33,23,426
	TOTAL			13,90,77,046		14,40,24,252
II	<u>ASSETS</u>					
1.	Non-current Assets					
	(a) Fixed Assets					
	(i) Tangible Assets	7	1,85,42,880		1,96,03,900	
	(b) Non-current Investments	8	7,00,00,000		7,00,00,000	
				8,85,42,880		8,96,03,900
2.	Current Assets					
	Current Investment					
	(a) Current Investments	9	3,86,46,895		3,92,68,591	
	(b) Inventories	10	1,45,673		1,66,723	
	(c) Trade Receivables	11	24,79,478		30,33,891	
	(d) Cash and Cash equivalents	12	30,33,533		37,72,883	
	(e) Short - term Loans and Advances	13	41,62,738		44,82,890	
	(f) Other Current Assets	14	20,65,849		36,95,374	
				5,05,34,166		5,44,20,352
3.	Miscellaneous Expenditure to the extent not written off or adjusted					
				-		-
	TOTAL			13,90,77,046		14,40,24,252
	Significant Accounting Policies and Notes to Accounts	1				
For Hunnarshaala Foundation for Building Technology & Innovations			For A S Shaikh & Co.		For H Rustom & Co.	
			Chartered Accountants		Chartered Accountants	
			Firm Reg. No. 139775W		Firm Reg. No. 108908W	
-----			-----		-----	
Director	Director		(Aslam Shaikh)	(HRD Dalal)		
DIN : 00506427	DIN : 06680969		Proprietor	Proprietor		
			Membership No. 162345	Membership No. 31368		
			UDIN : 22162345ASNOWL5668	UDIN : 22031368ASNRSE2198		
Place : Bhuj	Date: 13/9/2022		Place : Ahmedabad	Place : Ahmedabad		

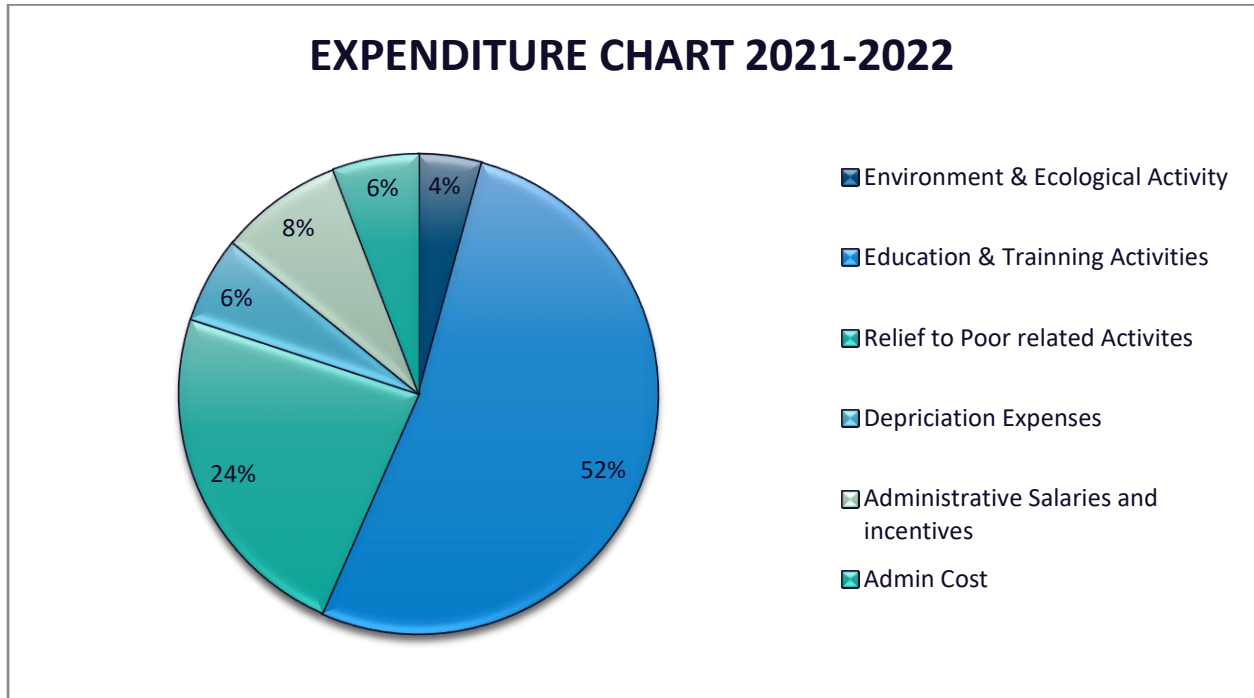
INCOME CHART 2021-2022

Particulars	Amount
Environment & Ecological Activity	11,80,000
Education	89,21,496
Relief to Poor	43,39,439
Interest Income	81,03,909
Miscellaneous & Other Income	1,17,810
Total	2,26,62,654



EXPENDITURE CHART 2021-2022

Particulars	Amount
Environment & Ecological Activity	10,99,816
Education & Training Activities	1,35,02,936
Relief to Poor related Activites	60,50,048
Depriciation Expenses	15,09,159
Administrative Salaries and incentives	21,56,263
Admin Cost	14,87,513
Total	2,58,05,735



4) Governance:

Board of Directors

Neelkanth Chhaya, Chairman
Mahavir Acharya, Executive Director
Kiran Vaghela, Director

Sandeep Virmani, Executive Vice Chairman
Tejas Kotak, Managing Director
Tushar Dayal, Director

Team members:

-Administration Unit

Nilam Sompura-Manager, Admin
Alimamad Sama, Driver
Urvashi Anjaria , Admin Assistant

Sitaben Buchiya, Office Assistant
Meghji Bhuchia, watchmen
Jamnaben Rathod, Office Assistant

-Karigarshala

Atul Vyas- Co Ordinator

-Account Division

Kartik Mehta, CA Consultant

Chetna Varu-Finance Controller

ARTISANS EMPOWERMENT UNIT

Bharat Chauhan, Project In Charge
Milap Gor, Project supervisor
Pankaj Bhagat, Assistant Engineer
Pradip Rangani , Project in Charge

Hemant Dudhaiya , Project in charge
Poonam Chavda, Project In Charge
Jignesh Gor, Project In Charge
Raj Chauhan , Accountant

-Community Empowerment Unit

Brinda Khiera, Accountant
Rajesh Gor, Project Assistant
Karamshi Rangani, Project in charge
Gaurav, Project Architect
Ksheeraja Padmanabhan, Project Architect
Jignesh Bhatt, Project in Charge

Dinesh charan , Project Incharge
Hiren Gohil, Project Assistant
Rupesh Hurmade, Program Co ordinator
Aditya Singh, Project Co ordinator
Arvind Naran Anthu, Project Assistant

Interns Details

Unnati Jilhare

Priyanka Nair

Anushka Karade

Kaushik R.

Komal Pawaskar

Meet kachhariya

Bhakti Munwar

Sai D.

Akash Chainani

Kritika Nahate

Suvosri Ghosh

Mital Vema

Dhiraj Jadhav

Hunnarshala Family Members.....

