SWARNNIMA MITTAL architecture portfolio

selected works 2015-2020

autili

C / V



SWARNNIMA MITTAL

Date of Birth	: 25th May 1996
Address	: 69. Sharnam County.
	South Bopal
	Ahmedabad-380058
Nationality	: Indian
Phone	: +91 9773025456
Languages	: English, Hindi
e-mail	: mittal.swarnnima@gmail.com

EDUCATION

2015-2020

Bachelors in Architecture (7.67 GPA) School Of Planning And Architecture. Bhopal, India

2014 Senior Secondary Education Tulio International School, Ahmedabad hala

OTHER COURSEWORKS

2020 (Ongoing) Circular Economy - Sustainable Materials Management Lund University, Sweden Online Course

2017

International Centre for Culture & Education (ICCE) - Green Revolution Certificate Program - A Grade

2016 Autodesk Revit- Certificate Program Autodesk AutoCAD- Certificate Program

SOFTWARES

DRAFTING Autodesk AutoCAD

3D MODELLING Trimble sketchUp Archicad

BIM Revit Architecture

RENDERING V-Ray for Revit and SketchUp Enscope for Revit and SketchUp

PRESENTATION & GRAPHICS Adobe Fresco Adobe Photoshop Adobe Illustrator Adobe Indesign

SKILLS

Concept Development, Conceptual Sketching, Visualisation, Documentation, Architectural Model Making, Technical Drawing, Graphic Design, Presentation.

ACADEMIC PROJECTS

2020 / Sem 10 / Graduate Thesis Baanskhedi Crafts Vilage : Livelihood centric Social Housing for Skilled Migrants' Community

2019 / Sem 9 / Urban Design Study & Proposal for Historic Urban District of Motia Talab Bhopal

2018 / Sem 7 / Housing Design Housing for Smart City, Bhopal

2018 / Sem 6 / Hospitality Design Five Star hotel Design, Ganpatipule

2017 / Sem 5 / Museum Design Air India Aviation Museum, Mumbal

2017 / Sem 4 / Insignia Based Design Public Art Gallery Design, Bhopal

2016 / Sem 3 / Vernacular Design Community Center Design, Chanderi Vernacular Documentation, Tangkhul Naga, Manipur, India

2016 / Semester 2 / Residence Design 125 m³ Dream House

2015 / Semester 1 / Basics Product Redesign (Faper Cutter)

ACADEMIC RESEARCH

2019 / Role of Psychological Ownership 2017 in the Fate of Social Housing 2020 / Live-Work-Play Paradigm as a 2016 Means of Establishing Psychological Ownership in Social Housing 2016

WORK EXPERIENCE

July 2020- Present Freelance Architect

(6 Months)

June 2017

May 2017

2018

2018

2017

2017.2016

WORKSHOPS

COMPETITIONS

- Project VaanPrastha Commune for Elderly seeking Moksha, Ahmedabad / Area : 9 Acres Role : Ideation and Concept Development. Presentation Drawinas. Cost Estimate January - July 2019 Architectural Trainee, De Baes Architects, Brussels, Belgium Projects Typology: Facade Design, Retail space Design, Residential Redevelopment, Landscape. Role: Technical Drawings, Detailing, Model Making, Presentation, Design and Concept. Summer intern, Grey Parek Architects, Ahmedabad
 - Projects: Residence Desian Role: Modeling, Technical Drawings, Material Research, Presentation
 - Volunteer, Dharmalaya Institute of Compassionate Living, Himachal Pradesh Hands on work for Earthen Construction

Museum of language, London (Archasm Competition)

(WORLD TOP 50)

- Hand in Glove, Communication Room, (120 Hours Competition)
- Art Bridge, Amsterdam, Netherlands Archasm Competition
- Nari Gandhi Trophy, NASA Cost Consciousness- Shriram School, Mawana. Culture & Architecture-Sarod Ghar Gwalian
- CSEB (Compressed Stabilized Earth Blocks Masonry, Auroville Earth Institute
- Human Form and Interactive Space Harimohan Pilla: ARCHIeSUDIO
- Integral Studio (Railway Station ReDesign)





Photography

Academic 2020 / Undergraduate Thesis Project

Competition 2017 / Documentation and Analysis



01 **BAANSKHEDI CRAFTS** VILLAGE, BHOPAL LIVELIHOOD CENTRIC SOCIAL HOUSING FOR MIGRANT BAMBOO CRAFTS COMMUNITY

Project Type :Social Housing Design (UG Thesis Project) Program Crafts community Bhopal, Madhya Pradesh, India Location

One of the main difficulties for a developing nation like India is urban migration, which is additionally exacerbated by cost constraints to fulfil increasing housing needs. Social Housing allotment provides slum dwellers the chance to move into better housing on the city's fringe. However, no adjustment in tenure security, family income, or human capital, caste systems, safety etc. cause around 34 per cent of the individuals to never really take up the allotted housing. It is important to understand that migrant communities cannot function in isolation without thier social network. Social network is what gives them a sense of familiarity in cities that seem to reject them. The following thesis proposes familiarity on all fronts- living, working and sociability- for the baanskhedis, in order to revive the community and their bamboo crafts in the city.

Rehabilitation Proposal for Migrant Bamboo

WHO ARE THE BAANSKHEDIS ?

Baanskhedi Community is a bamboo crafts community comprising of about 206 families in Bhapal, Madhya Pradesh. The families belong to Basor community, a hindu caste and originally migrated from Tikamgarh.

The Basor are marginal farmers and sharecroppers. Their traditional occupation was basket making and animal husbandry. Like other artisan castes, they have seen in their traditional occupation, with a concurrent rise in the number of daily wage labourers. Traditionally, they used to work as a labourers and bamboo works. They also act as village musicians especially during processions, marriages and other socio-religious ceremonies.

TIMELINE OF THE BAANKHEDIS



Presently, about a hundred families workwith bamboo carits while others work as daily wage labourers and domestic help in the area. Many artisan families switched their livelihood due to decreasing popularity of bamboo products and difficulty in sustaining life in urban areas.



Wedding celebrations require bamboo products and logs, thus contributing the maximum to the earning of baanskhedi people.

Tall Ravana figures are made for Dussehra.

made entirely from bamboo. Maximun skills of

the community are put to use during this season.





Baanskhedis also earn their living by supplying bamboo prducts needed during cremation. MAPOF

MADHYA

PRADESH



The craftmen earn the least during the rainy season, due to lack of shelter for bamboo works.



MIGRATION PATTERN

From their native villages throughout the state of Madhya Pradesh, Basors started moving to cities in search of better opportunities for their skilset. One such migrant Basor cluster of about 200 families marked Sanjay Nagar slums in Bhopal



2015-2018 The no. of families working on bamboo reduce significantly. Present The condition of the community continues to deteriorate.

THE RURAL LIFE



1. Basicr weaving banbop baskets in a 1915 per book. 2.3. Junctions become public places for social gatherings and courtyards become semi public

spaces for working in Basor Wages











4. The Basons are a close krit community, their dwellings are arranged around a central couryard that they use to store bamboos and interact. 5 Mait of the community is unaware of the initiatives taken by State Bomboo Mission. Hence their source of income remains limited and even in the village, their ves aren? any simpler,

THE PRESENT HOUSING

12 No. EWS Housing accomodates families from 5-6 slum rehabilitation projects. A random allotment has broken communities, ruined livelihoods. wrecked mental health of several people. The dilapidated blocks show the insensitivity of the government towards economically weaker sections of the society and lock of attachment of the latter with their homes





With little possibility for appropriation, residents still colour their walls for a sense of belongingness. Residents that painted their homes have mostly acquired tenure rights.



FEATURES OF THE PRESENT HOUSING

1:11 :::::



CHANGE IN OCCUPATION Many baanskhedis have left their skilled crafts to work as labour and house help for hand-to-mouth living.

RANDOM ALLOCATION OF HOUSES This has left familes stranded and broken from their community.

2=/

SUDDEN TRANSITION FROM INFORMALITY The families now have to pay up electricity, gas bills with no increase in income.

POOR LIVING CONDITIONS With wall plaster falling off with one firm fist, leaking ceilings and damp walls, people live in inhumane conditions.

DESIGN FOR NUCLEAR FAMILIES The design does not include that not all families are nucear, so when a big family is divided in , their expenses become triple.

ONE FITS ALL APPROACH No consideration for spatial requirements or culture or routine.

NO COMMUNAL SPACES There are no open spaces to interact, or play other than for the roads.

EXCLUSION OF LIVELHOOD IN HOME What once used be work-cum-live environment is no barely liveable.



▲ SITE PLAN

V SITE VIEWS





1. The community currently occupies the footpath of ravan mandi during the day for selling bamboo crafts

2. A dense green beit divides the link road and pervice road.





3. Vegetation 4. Abandoned school on



5. Abandoned structure on the site 6. Baanskhedi Bus stop on the main raod aoutting the



7. Vies of the ste from east arterial inad 8. Unused water tank on the site periphery.



SITE PROPOSAL

The proposed site is the land previously occupied by Sanjay Nagar slums. The boanskhedis lived there for six long generations before moving to 12 no. EWS Housing. Even now, the residential land remains vacant with no plans for the future. Thus, the proposal intends to use the land for benefit of a skilled crafts community.

Bhopal is the capital city of the Indian state of Madhya Pradesh and the administrative headquarters of both Bhopal district and Bhopal division. Bhopal is known as the City of Lakes for its various natural and artificial lakes and is also one of the greenest cities in India. Bhopal is a city of royal lineage that emits the charm of days bygone through its colour, flavour and character.



The site lies in the cochement area of Shahpura lake with a maximum slope of 16% making all the land permissible for construction. The viscinity is abundantly green, thus site planning should take vegetation and surface run off into consideration.

BUILDING BYE-LAWS:

The building bye-laws allow for 30 % ground coverage for residential areas with 15 m MOS at frontage and 6 m MOS on other sides. These areas should be used for livelhood centric activities of the Baanskhedi community.

CLIMATE STUDY:

Bhopal has a humid subtropical climate, with cool, dry winters, a hot summer and a humid monsoon season. For such a climate, it is important to consider the comfort within and outside during both day and night.



BROPAL MASTER PLAN LANDUSE

RESERVEN. PROPOSED RESORVAL CINERA ENHERCINGROUND EDUCATION

ROBATONAL LAKE IRON OTY FOREST PROPOSED COMMERCIAL CTY CENTRS.



EXISTING LANDUSE MAP 100.000

TTALLA R. A

the state of a

	DIR CONFICERN PROC
100	PCNT 410

SITE ANALYSIS FOR DESIGN

NATURAL FEATURES:





THE LIVE-WORK-PLAY PARADIGM

Mixed use development has been around for as long as mankind. Ou rural aeas are a Live-Work-Flay model if we look closely enough. People work on their porches, in their rooms, courtyards and even socialise in these places. The same areas are then used for sleeping and cooking at night. If we look deeper, even the slums in our cities follow a similar model. However, a successful vernacular model like this is rarely seen in slum rehabilitation. Livelihoods are often ignored, communal spaces are absent in order to increase occupant density, and dwellings are based on "one-fits-al" approach. Therefore, in order for the housing to be accepted and appreciated by the community, LWP model is inculcated in the design fulfilling needs of a rural household in an urban setting.



OBJECTIVES

ACTIVITY FOR BOTH SOCIETY AND INDIVIDUAL

Accommodation for livelihood in social housing. -Provide skill exposure and learning opportunities. -Scope for appropriation

SOCIAL CUITURAL AND ECONOMIC VISIBILITY OF EWS HOUSING -Establishment of psychological ownership amongst residents. societal, social and individual upliftment. Improvement in safety and security.

PROFITABLE MICRO-ECONOMIC SCOPE FOR STEADY TRANSITION FROM INFORMALITY TO FORMAUTY. -One only fits one approach while considering spatial requirements. -Minimum societal dependence dignifies communities. -Scope for informal activities.

SITE PLANNING AND ARCHITECTURAL LANGUAGE UNAFFECTED **BLOCK DESIGN** BY INCREMENTALITY Even though Baanskhed Crafts Village will witness effects of societal changes, condesation and layering over the years, stepped design of the units would ensure that the architectural language is maintained. This also makes expansion of household independent of the ones Heirarchy of streets above or below it. ensures transition from public to semi public areas Accidental open spaces formed invite informal activities. Buldings are placed as per natural vegetation on the site

POSSIBLITIES OF EXPANSION

Additional Built-Up for future expansion ensures residents' future needs are accomodated.





STRUCTURE & MATERIALS

Rigid Frame structural system ensures savings in construction cost.

Cast iron staircase acts an aesthetic element for building elevation, as well as removes the need for service core in the building.

Brick walls with cement plaster give opportunity for appropriation by residents.



Lateral expansion discourages moving further away from built in services, thus encouraging people to keep open spaces

SAME CARPET AREA WITH VARIATION IN BUILT UP FOR DIFFERENT FAMILY SIZES

Each dwelling gets a carpet area of 30 m² with built-up area varying from 37 m² to 72 m². This ensures that ever household has the convenience of appropriating the basic building as per their family size and affordability.









STEPPED TERRACES

Streets and open spaces are important sociable spaces for every community. Considering land and construction costs, most of the social housing projects go beyond 2 floors. The moment this happens, the cubaidal blocks placed in a grid become isolated. The streets that were meant for interaction become lines of disconnect. In Baanskhedi Crafts Village, the block footprint guided by the natural features of the site, when combined with stepped terraces creates perfect opportunity for interaction on all levels.













HANDICRAFT WORKSHOP ELEVATION MACHINE SUPPORTED CRAFTS WORKSHOP PLAN





02 HOTEL SEA-LID **5 STAR HOTEL ON ARABIAN SEA COAST**

Program Location

Project Type : Hospitality Design (Academic 2018) : 100 Key Five Star Hotel : Genpatipule, Meharashtra, India

Ganpatipule is a small town located 25 kms north of the city of Ratnagiri in Ratnagiri district on the Konkan coast of Maharashtra in the sub-continent of India. It attracts many tourists throughout the year and offers one of the cleanest beaches in India, With the development of tourism, a number of resorts and hotels have opened in this small town

The brief requires a 100 key Five Star Hotel design propsal for the site of Ganpatipule, Maharashtra. The coastal site is developed to enhance local eco-tourism and create a memory that lasts long after the experience is over.

Breaking away from the typical beachside hotels, the design proposal responds to the natural natural features of the site. All the vegetation towards the beach is preserved so that one can experience a virgin beach and areate memories of a lifetime. The form is developed such that it acts as a boundary between public and private space giving more alea to the latter.

ISOMETRIC VIEW



- ▲ ISOMETRIC VIEW OF SITE SECTION XC
- KEY PLAN (TYPLICAL FLOOR)

3 different levels of base floor plate ensure that there is minimum cut and fill. This makes site development easier and faster. The orientation of the building pads is such that they are mostly linear with the contours to ease the work of

The form is developed in a manner that it acts as a boundary between public and private space giving more

The height variation ensures that the shadows block harsh

Areas like banquets that need more exposure to daylight have been oriented to the north such that there is ambient lighting throughout the day without any heat gain. The form offers majority of the rooms lacing the beach for better





A VIEW OF THE ATRIUM WITH OVERHEAD SWIMNING POOL SITE PLAN

'SEA-UD' The hotel does not seperate the experience of water from the built environment. A feeling of proximity with the depth of the unbound oceans is provoked through the swimming pool on the atrium roof. One can see the sky through the water of the pool, experience a world through water while still being a part of the bound







The zones in the hotel block have been divided such that there is segregation between public, semi public and private spaces. The zoning takes into consideration that the movement of the guests goes parallel with that of the staff without hindering each other's activities.



INTERIOR VIEW OF SUITE
FURNITURE LAYOUT
EXPLODED VIEW

03 LOST IN TRANSLATION

STUDY AND TRANSFORMATION OF THE HISTORIC URBAN PRECINCT OF MOTIA TALAB

Project Type : Urban Design (Academic 2019) Program : Adaptive Re-Use of de-funct structures and Redevelopment of Historic Urban Precinct Location : Bhopal, Madhya Pradesh, India

Historic urban areas are part of the history and memory of a city, and history would be discontinuous without them. They are representatives of the style of a city. Any lone building in these areas is not qualified for special protection and thus it is often ignored. However, when buildings are seen together, they constitute a landscape that displays the typical scene of a city in a certain historical period, giving them a higher value. one such area is the walled city of Shahahanabad in Bhopal. The ambitious development of Shahjehanabad was started under Shahjehan Begum in 1870. It was complete with "bazaars' (Hindi for markets), "galla mandies' (Hindi for grain markets), store houses, 'serais', residential cuarters and institutions. Three terraced lakes were created in this area with water from one cascading into the next, hoewever, there is no dialogue between the past and present anymore. The precinct has lost its magnificence over time. The following study focuses on the principles, methods, and current problems of the historical motio talab precinct. Finally, some effective measures to protect the precinct are suggested.







Bhopal is the capital city of the Indian

state of Madhya Pradesh and the

administrative headquarters of both

the Nawabs of Bhopal.

ABOUT BHOPAL



05 Open land in Taj-ul complex is used as winter market. The local market opens in december. 06 Physical model of the precinct



MOTIA TALAB PRECINCT

Shah Jahan Begum, like her famous Mughol namesake, was interested in architecture and laid the foundations of Shahjahanabad and the Taj ul Masjid, or crown of mosques. A plethora of beautiful structures like the Noor Mahal, Barah Mahal, Ali Manzi and Nawab Manzil were her gifts to the city as were three lakes called the Noor Mahal Lake, Mushi Hussan Khan Talab and Talab Tai Mahal

The historic precinct however, failed to keep up with the present. Most of the structures are in runs and the cultural landscape of cascading lake system is almost gone. Insensitive use of natural resources, lack of traffic management, no walkability etc are major issues of the precinct. But the spirit of the place is still seen in its serene evenings by the lake, where certain edges still remain oblivious to the choos around them.





OI. View of the lake (motia talab) with recent construction of mosque complex in the background. 02 View of Kala Darwaza leading to lake







03. Govt. offices on the western edge of motia talab.

02 southern edge of motia talab leading towards Benozir Palace.



THE ORIGINAL LANGUAGE HISTORY OF MOTIA TALAB PRECINCT

The ambitious development of Shahjehanabad was started under Shahjehan Begum in 1870. Shahjehanabad was a suburb towards the north of Bhopal. It was complete with 'bazaars' (Hindi for markets), 'galla mandies' (Hindi for gran markets), store houses, 'serais', residential quarters and institutions. An Id-gah (Hindi for mosque) was located at the highest point in the landscape and Shahjehanabad was enveloped by a city wall. Three terraced lakes were created in this area with water from one cascading into the next.





CTY HUL BENEZH PALACE SAUKANA PALACE SAUKA HAGUD

VISUAL CONNECTIVITY

AND PLANNING AXES





VISUAL CONNECTIVITY AND PLANNING AXES

Motia talab acts as a courtyard of the palatial complex. The palaces and mosque were visually connected with the lake.

GENDER SPECIFIC AREAS- PARI BAZAR

Pari Bazoar was established by Shahjahan Begum exculsively for the women. Women came in colorful attire adding to the fervour of the place, hence the name Pari Bazaar.

SUMMER PALACE- BENAZEER PALACE

constructed in 1875, it is an 'H' shaped building with enclosed terraced gardens. Built with steel columns and carved louvered wooden partitions, it has extensive carvings on the walls on it hammam.

PLACE OF WORSHIP- TAJ-UL MASJID

Taj UI has a pink facade topped by two 18-storey high octagonal minarets with marble domes, an impressive main hallway with attractive pillars and marble flooring resembling Mughal architecture

TAJ MAHAL PALACE

Bult by Sultan Shah Jahan, Begum of Bhopal, it is located beside the Taj-ul-Masajid in Bhopal, India. The Taj Mahal at Bhopal was built as the Begum's residence. The architecture of Taj Mahal has British. French, Mughal. Arabic and Hindu influences. The main entrance is a seven-storied structure. The palace has been built in the Indo-Saracenic style and is kept cool by the winds blowing in from the lakes After the partition of India in 1947. Nawab Hamidullah Khan allowed Sindhi refugees to stay in the palace.





THE TRANSLATION PRESENT MOTIA TALAB PRECINCT

Shahjahanabad now lies in the old city of Bhopal where it suffers from the fate of most historic urban precincts that are not recognized. The precinct experienced reckless uninspired construction in the past 2 decades.



Ramport construction in Tay of complex has affected the imageability of the mosque minarets.

SECTION B



In early 2000, the polatial grounds were converted to Babie-Ali stadium to uplift the local youth.



Pari bazar was converted to government quarters post independence.



SECTION A

OLD RESIDENTIAL AREAS

These areas remain in solation from the economy generators in their viscinity and remain unaffected by their activities.

LAND RECLAMATION

along the edges of cascading lakes is an ecological problem. The three lakes have also lost their geometrical link because of it.





UNDER-UTILIZED

2 edges of Motia Talab belong to historic structures that are no longer functional. The structures deteriorate day by day. The street sections show stark contrast between different edges of Motia Talab. While one edge is devoid of any traffice and noise, the other faces congestion and parking issues. What is common in all the edges is that they lack pause points.



SECTION C







PATIENTS AND VISITORS

Patients and visitors are the major users along southern and eastern sides of site due to presence of state healthcare

THE DEVOTEES

land

Devotees make up for second highest users of the precinct because of number of mosques and temples.



INFORMAL COMMERCE

Informal commerce due to healthcare infrastructure and masjid invites all users alike.

RESIDENTS

Residents in the precinct are mostly those who settled after the partition. Their areas are isolated from healthcare activities

THE TRANSLATION INFERENCES



FRAGMENTED DEVELOPMENT

Some parts of the precinct kept up with the present while some became ruins. Contrast in footfall is evident on different edges.

HISTORIC CHARACTER

While Taj-UI complex still

tries to retain the historic

character in their recent

construction, most of the

architectural language is

Hamidia Hospital

gone



LINEAR ECONOMY

New economy generators function independently of the natural features of the precinct. Thus, the deterioration of landscape.



VISUAL CONNECTIVITY

While visual connectivity with the lake remains. majority of the structures along the lake remain de-funct.



ISOLATED FUNCTIONS

With Taj mahal Palace and Benazeer Palace being abandoned. their surrounding landscape also remains under utilized.

UNDER-UTILIZED LAND

Even though the functions compliment each other they remain isolated instead of benefitting from each other.

Taj Ul Masjid

Motia Talab is envisaged as a precinct where the built and unbuilt are knit into one visual entity.



- **§1** Revival of the cascading lake system where Motia Talab regains it role as catchment area for a
- **§2** structured Growth of Healthcare infrastructure
- **Re-establishment of the lost** visual connection between
- **§4** Introduce new functions for Tai Mahai Palace and Benazeer Palace such that the built serves as a revenue generator and the unbuilt uplifts the community

SECTION THROUGH MOTIA TALAB

THE NEW INTERPRETATION ZONE TAJ MAHAL PALACE

The original language gives way for new interpretation such that it becomes more meaningful for the present. The intervention seeks to remove boundaries between the residents and their surrounding landscape. If it becomes more accessible visually, local initiatives to conserve the cultural landscape will increase. The community which was distant from its past would be able to interact with it.





REUSE OF LAKE EDGES

With the land that has already been reclaimed form the lake, physical connectivity becomes easier to establish through wakways

CONNECTIVITY OF THE UNBUILT

While the Taj Mahal Palace is under renovation. its courtyards can be connected with the surrounding landscape.

EXTENSION OF SPORTS COMPLEX TO RECREATIONAL AREA

Limited use of Bab-e-Ali stadium can be changed by making the outdoor spaces accessible

REMOVAL OFPHYSICAL BOUNDARIES

Removal of physical boundaries makes the lakefront approachable for locals and vegetal buffer keeps the noise away.





1 AL 4







04 **RESIDENCE TER POORTE**

REDEVELOPMENT OF POST WWII CONSTRUCTION

Project Type : Professional (DE BAES ARCHITECTS, BELGIUM) Structure & Landscape Redevelopment of Program Housing Complex : Broges, Belgium Location

The renovation has been urged by deteriorating state of the underground garage where degradation has started to compromise the stability of structure. Moreover, the building is falling behind in terms of fre safety regulations and lacks the required access road for emergency vehicles. after the renovation, the next phase will focus on redesigning the building's direct context, upgrading its landscoping, its wheelchair accessibility and its outdoor parking area. The open parking design redefines the entrance zone to the building, creating a seamless transition between the public domain and the surrounding landscape. Integration of landscape in a random manner invites playfulness. When every person can choose a different path to lead them home, they would want to do it differently every time.





IDEATION









05 THE CURIOUS CASE OF COST DOCUMENTATION AND ANALYSIS OF SRIRAM SCHOOL IN TERMS OF COST AND VALUE

Program Location

Project Type : Nari Gandhi Trophy 2017 (Groupwork) : Documentation and analysis of Bult Project : Mawana, Uttar Pradesh, India

The brief asks an important question- is cost merely a reflection of money spent on construction or does it connote deeper meanings? As a determinant of design, what diverse roles does cost play? The theme intends to explore cost related matters. One has to choose a project completed after 2000 A.D., where cost has played a decisive role in the design and execution of the project. It could be located anywhere in India belonging to any building type with any built up area.

In a hypothetical world, if cost and value were to be personified, how would they communicate? Words won't be able to connect them since they don't speak the same language. To find a common ground they'd have to settle on a tongue as binary as them.

THE SHRIRAM SCHOOL A MODEL OF COST CONSCIOUSNESS

is an initiative by the Mawana Sugars, built for the welfare and education of its employee's kids. It is a day school that currently provides education to 1200 kids from primary to high school. The school design is an amalgamation of eco sensitivity and resource management. It tends to the schooling needs of children and gifts value to their life while being an optimal model of Cost Conscious Architecture



PROJECT DETAILS



Completion: 2008 Built up Area: 25,000 sq 64 Plot Area: 90,000 sa ft Cost: ₹806/saft Architect: Deependra Prashad Contractor: Sonu Bulders, Dehi

The addition of the New block has provided a much needed breck in the predominantly industrial environment in the township, while also creating a safe and jovial space for the children to live and learn.

Material used

Alternate material



1. Availability

3. Labour

MATERIAL ANALYSIS

on the following parameters:

CLAY BRICKS COST. Rs. 23/brick

IN NURSH BRICKS COST. R. 4 brick



PS FLOOPING IN CLASSES COST Rudson BEROFA STONE IN CLASSES

COS1: #s.30/soft.

IN BITUMEN



CEWENT COST. IN 303-50 Kg



Flooring In corridors

Kota Stone

Brick Bat Coba is used as waterproofing



Exposed brick-ork



Metalic windows are used everywhere



PS flooring is used in dassicons and courtyards



2 Maintenance 4. Cost Efficiency

The Windrose diagrams potray comparison between the material used and the possible alternatives that could

have been used. The alternate material chosen for the

analysis was selected in accordance to its viability based



BROX BAT COBA COLT. R. 1401-48 COST & 80/seh



POZICIANA FORLAND CEMENT COST #1325-50 kg CRONARY PORTLAND

COST. Re 28/auth

IN TERRAZO NIDORIHO COST Rx 34/apt

COST: RidOna

MAUMPERA VEOOWS

COST. R. 220/walt



CURRENT SPATIAL ARRANGEMENT

Even though the school was designed for 600 students. The utilitarian value of its design and the generous space standards permits the current strength of 1220 students. The spaces have been rearranged to accomodate the increased number of students.





VERTICAL EXPANSION

PLANNING AROUND TREES



UNIVERSAL DESIGN



NOISE BUFFERS

DESIGN CONCEPTS



CHAMFERED CORNERS

OPEN CLASSES

Derivation of Hypothesis

thoughtful designing of spaces so that they not only provide benefits to the client. environment and society, but also he'p in making the structure cast effective.

Testing of Hypothesis.

Jain Bungalow, bore convincing results. This building has been made keeping the principles of value optimisation at heart.

Usage of Hypothesis:

values and principles we have deemed worthy of cost conscious architecture.





06 Museum of language

PRESERVATION OF LANGUAGE THROUGH THE GREATION OF A DEDICATED LANGUAGE BANK

Project Type	: Museum Design
Program	: Creation of a de
	that for detailed r
	past, present and
Location	: London, United K

When a language dies out, future generations lose a vital part of the culture that is necessary to completely understand it. This makes language a vulnerable aspect of cultural heritage, and it becomes especially important to preserve it.

Language has largely been neglected as a museological domain worldwide, apart from some certain sections in major museums devoted to individual linguistic contributions. The aim of the competition is to design an iconic museum of language in the heart of Landonthat will deconstruct the science of linguistics into various aspects of- speech, script and sense.

n Competition (Team of 2) edicated learning plotform research and irnavation in the d future world languages. Kingdom



Language is not just a tool for communication, it is a living intangible memoir, denoting the evolution of a culture. It is a reflection of the lifestyle of its people, their knowledge systems, their beliefs, myths etc. Therefore, a language exhibit must involve its visitors with the language rather than treating it as an artifact on display. The underlying theme of human communication is our universal understanding of non-verbal communication. Every human possesses innate ability to grasp these ques.

(POD)

The exhibits at the museum are unique. Each exhibit or pod has a circular hologram unit that narrates myths and narratives of a particular language. The 📫 entire experience is holistic, catering to al senses. A total of 20 pods are there in the museum, h addition to the pods. there are exhibition galleries to facilitate the learning.



The building is intertwined around three circles, each denoting aspects of life for which language and communication are vital.



The first circle houses a tree. It is open to the sky, symbolic of the fact that our lives have forever revolved around nature.

Grde 3 Circulation



The next circle has a transparent pool on the roof, it is exposed to nature adapting to all the hardship.





Tree

The last circle in the building houses its vertical circulation, denoting growth after one has successfully mastered the art of effective communication; with nature, with felow beings and with oneself.







CIRCLE OF GROWTH



CIRCLE OF TRANSFORMATION







07 OTHER WORKS

Hands-On Work:

- Earthen Building at

Architectural Photography

Dharmalaya (Volunteer work)

 CSEB Masorry at Aurovile Earth Institute (Workshop)





VOLUNTEER WORK AT DHARMALAYA

Dharmalaya is an Indian charitable organisation devoted to education and empowerment for compassionate living, with a practical facus on sustainable village development, preservation and adaptation of traditional wisdom. I volunteered for earthen Building work during monsoons of 2017. Monsoons are the best time to volunteer since one gets to learn time management in construction. We built a ferrocrete underground water tark that increased dharmalya's water storage by nearly 10 times. It is a place that functions as an opportunity for learning a sustainable lifestyle by practicing it. Although it is a campus still in the making, it already lives and grows, true to its fundamentals. One cannot drift through and remain untouched by the pristine hills and humble lifestyle at Dharmalaya.





CSEB WORKSHOP AT AUROVILLE EARTH INSTITUTE

The Auroville Earth Institute researches, develops, promotes and transfers earth-based building technologies. For 28 years, the Institute has educated and empowered people to build their own dwellings using earthen techniques, I attended their CSEB Masonry workshop in September, 2017. The CSEB Masonry course is a practical, hands-on training course for masonry with Compressed Stabilised Earth Blocks (CSEB) and other stabilised earth techniques which have been developed and mastered by the Earth Institute. The course was with predominantly hands-on, demonstrations and work on Stabilised earth technologies, Tests for mortar -Mortar quality, Bond patterns for walls, Stabilised rammed earth foundations, Building a basement etc.





1st October 2020

To Whom It May Concern

Dear Sir / Madam,

Letter of Recommendation – Swarnnima Mittal

I hereby certify that Swarnnima Mittal interned in our firm during the period of 25th January to 24th June 2019.

de baes architect is a young and dynamic architecture office based in Brussels. Founded in 2009, our practice is organized as a lab fostering collaboration with architects from around the world. Our focus is transformative architecture, in other words, to provide forward-thinking solutions in today's fast-changing context. Our newly-established practice, redevelop belgium, specializes in renovation of modernist buildings in Belgium.

During the internship, Swarnnima was invited to participate in a broad range of assignments, including: BASTA drawings and 3D models, TPA landscape plan and details, DICE office interior ideation and concept, WSK Technical Drawings, PSK roof extension; social media handle of our office and entry for Dezeen Awards.

We are very satisfied with Swarnnima's work performance. She was driven, enthusiastic and very dedicated to her tasks. She was creative and often came up with good ideas. She was also attention to detail, which is an essential quality for being a good architect.

Swarnnima has proven to be able to work independently or as part of the team. On a team level, she was without doubt a complementary member who brought added value. She always took the initiative at work and injected positive energy into the team. She has a pleasant personality, which made it a joy to work with her.

All in all, we are grateful for the contributions made by Swarnnima, and we are pleased to endorse her to work in your firm.

Should you have any questions, please do not hesitate to contact me directly at joris@debaes.eu.

1

Yours faithfully,

Joris De Baes Principal Architect

School of planning and Architecture, Bhopal MP

To,

SUBJECT: Certificate of Training

This is to certify that Ms. Swarnima Mittal, daughter of Mr.Anil Mittal is a trainee in our firm since 28th May 2017to 29th June 2017.

As a trainee, she was a part of a team comprising of three members. She was assigned the task of making AutoCAD Drawings which were completed successfully. She also visited sites and established coordination with consultants during the process of construction, which helped her gain practical knowledge.

During the internship she understood the process of working and systems that exist in an office. She also gained good knowledge of processes of estimation, from architectural detailing to project handling in office as well as on sites as she was actively working on number of projects simultaneously.

She is a quick learner and is passionate about pursuing her career in Architecture. She is also sincere and hard working and we wish her the very best for his future endeavors.

PROJECTS

- Anjney Corporate house
- Tej Eye Centre, Gandhinagar •
- Gujarat Credo, Mundra ٠
- Jaldhara Apartment

Regards,



Gauri Parikh, RIBA, COA CA/2011/53930 For and on Behalf of Gray Parikh Architects

> GRAY PARIKH ARCHITECTS 31, 319 Floor, White House, Panchvati, C G Read Ahmedabad 380006

> > T: F/ +91 79 26404187 Email: info/atgrayparikh.com Web: www.grayparikh.com

de Stassartstraat 117, 1050 Brussels T +32 24 30 24 17 E: mail@debaes.eu

GRAY PARIKH ARCHITECTS

Date: 29th June 2017

Scanned Copy of Recommendation Letter

thank you

SWARNNIMA MITTAL

+91-9773025456 mittal.swarnnima@gmail.com