



The Aga Khan Award for Architecture

Entrepreneurship Development Institute of India

Ahmedabad, India

Architects:

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Ahmedabad, India

Contractor:

Gannon Dunkerly and Company

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Client:

Entrepreneurship Development Institute of India

Viharibhai G. Patel, Director

Ahmedabad, India

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1992 Technical Review Summary
by *Jamel Akbar*

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Entrepreneurship Development Institute of India

Ahmadabad, India



Architect

H.C. Patel Architects - Bimal Patel
Ahmadabad, India

Client

Entrepreneurship Development Institute of India
Ahmadabad, India

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I. Introduction

What is entrepreneurship and how significant is it to society ? Entrepreneurship means the acquisition of skills needed by an individual who wishes to create and own a business. Thus, it transforms people who are jobless into business owners. Logically, each developing country requires small industries to manufacture goods and services; however, most developing countries do not have enough skilled people to set up, own and successfully manage businesses. The Entrepreneurship Development Institute of India (EDII) performs this rôle. The EDII aims to set up institutions all over India which in turn will develop entrepreneurs through training courses. It aims at developing tutors who can train the public, but most of all, the faculties of EDII conduct research into entrepreneurship. They experiment with new target groups: for example, can women become entrepreneurs ? If so what techniques are required ? Can government employees become entrepreneurs ? Thus, courses in the institute experiment with new models and approaches to be used by other institutions. This means that most of the work of developing entrepreneurs is carried out by the institutions set up by EDII all over India. In the words of the EDII director the institute is "research institution, training institution, and institution building institution". This shall ultimately increase the number of entrepreneurs or owners of businesses.

What types of entrepreneurs ? The EDII considers all types of businesses, from establishing a shop in a village to the creation of a transport company in a city. However, research and training at EDII is essentially targeted toward industrial entrepreneurship such as setting up a food processing company, plastic recycling factory or even a rivets collecting company. These activities should, in the long run, affect the socio-economic structure of society.

II. Context

a. *Historical Background of the EDII*

The revolutionary concept of the EDII for Third World Countries is pioneered in Ahmadabad. It started in 1969 when one of the chairmen of a financial institution in Ahmadabad noted that funds were available for loans but there were no entrepreneurs to utilise them. Another individual, Dr. V.G. Patel, was working in an industrial investment corporation which is a state owned development bank in the State of Gujarat. The bank announced a credit scheme to offer loans to technocrats or any individual who knew how to manufacture a product. The loan was up to 100% of the project cost, yet few people knew how to establish, own and manage such industries. The idea of developing entrepreneurs was born. Dr. Patel, who is an economist, decided to adopt the concept. One of the first obstacles was to find a location for the activities. Dr. Patel found a college building where he managed to convince the administrators to allow the use of their classrooms from 19.00 to 22.00. This allowed working people to attend the programme. Thus, the EDII was established. There were two individuals involved, Dr. Patel with one other tutor. Dr. Patel told his colleague that the job was valid for six months only. If they succeeded, they might revolutionise Entrepreneurship and become famous, and if not they would both be jobless. Dr. Patel stated that his degree in economics did not help him much. He started by asking businessmen: "what is it that people should know to become successful businessman ?" "What keeps people from not becoming entrepreneurs ?" The answer to such questions developed a body of knowledge that kept growing through developing models and testing them. Thus, the institute succeeded. Seven years later, they rented a small house as the headquarters for the institute. In 1983, 14 years later, the Ford Foundation told the EDII that if they succeeded in other states they would support them. The reason for this is that the State of Gujarat is considered as economically dynamic. So the EDII was funded to test entrepreneurship ideas in other states such as the state of UP which is considered economically inactive. They succeeded and the government of India remarked the success. The National Industrial Development Bank prepared a report on the EDII which was circulated to all the States of India. Thus, the EDII became a national movement and not just a programme. Every State wanted to develop its own programme based on the EDII programme. Financial and governmental institutions of other states became involved to establish their own entrepreneurship institutions. Questions emerged about the quality of the new

programmes since so many inexperienced individuals and institutions have become involved. There was a need for a national institution for entrepreneurship, a mother institution which would supervise the establishment of entrepreneurship institutions all over India. The EDII became that institution in 1983. Four years later, they had the funds necessary to build a campus that could host individuals from other states and would have facilities for training and research.

The EDII was initially financed by development banks, but now earns sufficient income through fees and is an autonomous institution that is jointly sponsored by the Industrial Development Bank of India (IDBI), Industrial Finance Corporation of India (IFCI), Industrial Credit and Investment Corporation of India (ICICI) and State Bank of India (SBI), with the active support of the State Government of Gujarat, the World Bank, International Labour Organisation, UNIDO, Commonwealth Secretariat and several other International agencies.

Historical Background of the Architect

One of the important links to Muslim culture in this project is the architect's design approach. Therefore, an historical background of his development should be useful.

The architect completed his studies in 1984 and joined his father's office which had been established thirty years previous. The office currently employs 25 people; these include 8 architects, 5 engineers, and 2 administrators. His father gave him the chance to participate in the design competition of EDII.

He is of the view that history courses in his undergraduate school are quite poor; it seems that Greek and Roman architecture is favoured to the exclusion of Indian architecture. So when he went to Berkeley and through his extensive travels in India he realised how rich is his own - architectural - culture. He argues that Hindu architecture is limited to temples, while Islamic architecture shows much more diversity of building type: palaces, mosques, tombs, bazaars and forts. Thus, when he pulled out the book "Archaeological Survey of India" at the library in Berkeley, he found himself studying Islamic architecture of India. As he explained, he used to "sit down with those drawings and re-draw them to fill up my head with them and then I started to discover patterns of how to put things together". Thus, he started to observe how a building's elements are put together, what are the organisational principles, what are the characteristic elements that he should use in new buildings. At the same time, he was influenced by the work of Christopher Alexander, Leon Krier and Claus Herdeg. This was his Masters thesis. He explained that lately built architecture in Ahmadabad is quite modern and appealing but without any connection to Indian culture. He feels it is quite important to establish some connection, as Indian architecture represents the accumulation of past centuries experience of which he should take advantage, especially the examples in north-east India.

The architect is also influenced by the use of building materials in traditional buildings. He explains that those buildings are made of "very few building materials but make a rich architecture also". Furthermore, the limited number of materials used are exposed and not plastered (see section VIII B, Relation to Cultural Context).

b. Local Architectural Character

Local architectural character is influenced by the history of the city: Ahmadabad was founded in 1411 by Muslims. It was ruled by the British in 1812. In 1816 the first textile mill was built. Thereafter, Ahmadabad became the most important textile city in that part of the world. Major aspects of vernacular architecture and the compact fabric of the Muslim built environment can be found in the old part of Ahmadabad: courtyard houses, labyrinths of public thoroughfares and alleys, private *cul-de-sacs* and gates. Houses line 8-15 metre wide streets that lead to more narrow (3-6 m) streets. Inside the old town, courtyard houses are arranged to generate the typical compact organic fabric with its narrow and occasional *cul-de-sacs*; however, with little or even no overpasses. Some colonial influences are evident on the façades of some houses. There are gates inside the old town that denote the quarter's autonomy. Thus, Ahmadabad has strong domestic traditional architecture (vernacular). The period of British rule influenced development;

however, compared to Delhi or Bombay, there are no great colonial architectural examples. Most formal architecture of the city before the period of British rule is Islamic, such as mosques and some surviving mausoleums. The most famous is Sarkhej Rauza which is possibly the best example of Islamic architecture in the state of Gujarat. Yet, this complex does not compete with monuments found in the north-eastern part of India near Delhi, such as Taj Mahal or Fatehpur Sikri.

Ahmadabad hosts the work of some of the leading modernist architects from the 1950's such as Le Corbusier and Louis Kahn. Le Corbusier built the Mill Owners Association, the houses of some textile families and the City Museum, while Louis Kahn built the Indian Institute of Management. This has set a strong tradition of modern architecture in Ahmadabad which can be seen through the work of architects such as A. D. Raje and Doshi.

c. Climatic Conditions

The climate is hot and arid. Temperatures vary from 27-41°C in summer and from 14-29°C in winter. The monsoon season is from June to September when precipitation averages 600 mm. October to March is considered the most agreeable period. Winter is from November to February. Since the city is located on the Tropic of Cancer, sun is high overhead, and the light is strong and harsh.

d. Immediate Surroundings of the Site

The campus site is adjacent to the eastern side of a 90 m wide highway that connects Ahmadabad with the new capital Gandhikagar. The site is essentially farmland acquired almost fifteen years ago by the government. There is a little village nearby, but the site is surrounded by undeveloped land with sparse vegetation.

e. Topography of the Project Site

The terrain in Ahmadabad is generally flat and vegetation is sparse. The soil is clay loam. The topography of the site is flat; however, as it is adjacent to a dry river situated on the western side, the land is characterised by a gentle slope towards the river.

III. Description

a. The Rise of the Programme

The EDII was established and was nationally recognised in 1983. Previously it operated from a small house in Ahmadabad. Students from out of town had to reside in hotels and this was expensive. Thus, in 1985 the EDII decided to build a campus of its own that would include boarding and lodging facilities, classrooms, offices, a library and an auditorium. Land was purchased from the State Government at a subsidised price.

The institution hired a consultant (Dr. Rasu Vakil) who determined the EDII's requirements and established the brief for the complex. The brief was quite elaborate and innovative; ideas such as less dependence on artificial energy and a well landscaped campus are proposed. Although the programme was clear and ambitious, it did not succeed in capturing the future needs of the institution. Space requirements are over estimated. Although only part of the facilities included in the initial brief have now been built, these exceed the institution's current and future needs for at least ten years.

A committee was formed to announce a national competition for the design of the complex. Sixty firms replied. The sixty firms were screened, and ten were given the design brief, of which, six

firms submitted designs. The committee selected three projects based on their concepts and finally one firm was selected. The committee (jury members) was composed of Dr. Patel (director of EDII), Dr. Vakil (consultant), Mr. Bhagvat (landscape architect) and three members of the governing council of the EDII. (The EDII has a Governing body composed of 15 members from the various financial institutions.)

b. General Objective

To provide accommodations for the institute which would profer the following functions through education, training and research:

- to augment the supply of industrial entrepreneurs through education and training;
- to produce multiplier effect on opportunities for self employment;
- to improve the managerial capabilities of small scale industries;
- to contribute to the dispersal of business ownership and thus to expand the social base of Indian entrepreneurial class;
- to contribute to the creation and dissemination of new knowledge and insight in entrepreneurial theory and practice through research;
- to augment the supply of trainer-motivators for entrepreneurship development to participate in institution building effort.

c. Functional Requirements

The functional requirements are not unique or unusual. All activities relate to the EDII's nature which is quite theoretical: training, teaching and research. These activities obviously need office or classroom type arrangements. In addition there are a hostel and a dining hall.

d. Building Date

The campus is composed of seven buildings linked by two axes.

Two of these buildings are hostels (A and B). They are identical in design and size. One (B) is two storeys high and contains twenty air-conditioned rooms, while the other (A) is one storey high and contains ten non air-conditioned rooms. Each room is 5.40 x 5.40 m and has twin beds and an attached bathroom. Near the hostels, the third building (C) contains the kitchen with catering facilities and two dining halls, each of 60 seats capacity. These three buildings share the same axis. The other axis is shared by four buildings. Three of these (D, E, and F) are composed of one module (5.10 x 3.40 m) grouped around a courtyard on three sides while the fourth side links with the axis. In some instances, the modules are grouped to form larger rooms. Two of the buildings (research and administration, E and D respectively) are similar in size and each is composed of eighteen modules. The third building (training centre, F) has a larger courtyard since it is composed of 28 modules. The training centre has two air-conditioned, well furnished seminar halls with twenty-five seats capacity each, and a conference hall with eighty seats capacity. They are equipped with overhead projectors and audio-visual facilities. The seventh building (J) is the library which is a rectangular building (approximately 10 x 34 m) with basement and partial upper floor.

e. *Evolution of Design Concept*

Response to Physical Constraints

The major physical constraint is the site topography. The buildings of the three main activities (research, training and administration) are located on the higher area of the site and are visible from the main point of access. The hostel accommodations have been positioned in a more secluded area and are further detached from the institutional facilities by a large area of green space.

The other major physical constraint is the limited number of construction materials selected by the architect to conform with the budget for the project. Brick and concrete are mixed together to create pleasing forms. For example, attention is given to façades by carefully selecting elements that repeat in a symmetrical arrangement. The lintels are of exposed concrete and are used as decorative elements over windows, doors and the arches which span circulation corridors. The use of these elements establishes a theme that unifies the buildings' architecture, despite the variation in function and spatial arrangement offered within each block.

Response to users Requirements

The EDII wanted a building that should not exceed 15 million INR and should be built within a 16 month construction period.

The complex responds well to the users' needs because of the architects' skilful positioning and grouping of the spaces to form various buildings. The architect managed to convince the client to alter the brief to form several buildings, each around a courtyard with a distinct function and character yet linked to the two main axes. He also convinced the client not to have high-rise buildings, since the amount of land available was extensive. On the other hand, it was not advisable to have one building to host all the EDII's functions; this approach would lessen the possibility to create and define inside and outside spaces. Indeed it is this play of inside and outside relationships that gives the EDII its pleasant character.

The EDII wanted two types of hostels with different standards to serve two social classes of students; one serves government employees and those who wish to become trainers, while the other is for entrepreneurs. The architect argued that the space requirement for both groups should be identical as both classes of users would have the same ergonomic and anthropometric requirements. The difference between both groups of accommodations is in the furnishings and equipment; for example some accommodations buildings are air-conditioned while others are not.

The EDII wanted a typical administration building with a central corridor to service rooms on both sides and some large spaces for visitors to give the institute an "executive" look. The architect managed to convince them that if they wanted good working space they should build smaller, personal units or modules; the building should consist of groups of rooms - instead of a few large rooms around a courtyard shared by many employees. Each module or sector (3.40 x 5.10 m) is thus divided into two parts; the inner part of the sector is the personal or private area and is meant for the faculty member or researcher's own personal activities; the larger external area is for daily activities such as preparation of courses and meetings. The two areas are separated by a 90 cm high wall with an access passage. The same pattern is repeated for most rooms. In some cases the inner area is used as storage or the space is shared by two people.

Landscaping

The designers had two different attitudes in landscaping the site:

First: As the site area around the buildings is extensive, large numbers of trees were planted as they require little maintenance. *Neem* and *Ambli* trees are planted on a grid pattern of 18-20 feet. This treatment helps cool the whole site. These trees live for fifty to sixty years and are evergreen. In five years time they will create "a forested looking envelope". The rear of the site near the river - where rain-water gathers - has been planted with *Eucalyptus* which requires little maintenance.

Second: The courtyards and the smaller areas in between the buildings were treated attentively. Courtyards are paved with stone on one side and planted with grass on the other, where users may sit. In between there are selected trees such as *Batam* that are known for the large size of their leaves or for their colour.

f. Structure, Materials, Technology

Structural System

The structural system consists mainly of load bearing brick walls; however, in some locations reinforced concrete columns are used where large spans are necessary; for example, lecture halls. Beams, two-way slabs and steel trusses are used in few locations.

Materials

Most foundations are of brick. There are few reinforced concrete column footings. Structural members are made of brick and some reinforced concrete. All infill materials are brick and are finished with plaster. There are no finishing materials used on exteriors with the exception of wooden doors and windows that are painted. Walls, ceilings and columns are exposed brick or concrete. Stone of different colours has been used with mosaic tiles for floor finishes. In two locations over the axis that links the buildings, profiled aluminium sheet has been used.

Building Services, Site Utilities

Since the institute is outside the city of Ahmadabad, it is not connected to the city sewerage or drainage network. There are two main septic tanks, while rain-water drains to the nearby river. There is one overhead water tank. Electricity is connected to the mains cable near the highway via an electrical transformer.

g. Origin of Technology, Material, Labour Force and Professionals

All human and material resources involved with the project are local with two exceptions; stone used for floor finishes was brought from a site approximately 200 km distant; electrical and plumbing consultants were from Bombay.

IV. Construction Schedule and Costs

a. History of Project

The design of the EDII commenced in February 1985 and was completed in August 1987. Construction of the complex commenced in February 1986 and was completed in August 1987. The facilities were occupied in 1987.

b. Total Cost and Main Source of Finance

The total initial budget was INR 15'000'000 while the total actual cost is INR 17'400'000 (USD 1'330'000). The cost of labour, materials and infrastructure was INR 14'000'000; landscaping cost INR 450'000; professional fees were INR 820'000 and tubewells, etc. were INR 2'200'000.

USD = INR 13.09, Indian Rupees.

c. *Comparative Costs*

The cost of INR 1'700 (USD 130) per m² is considered average cost; however, in comparison with the quality of construction, cost can be considered below average. The construction is quite neat when compared to buildings I saw in the same category.

d. *Maintenance Cost*

No information is available on maintenance costs; however, the building is one of the most well maintained buildings I saw in India. This is due to careful use and constant maintenance. What is interesting is that the institute has asked an individual from a nearby village to form the company responsible for maintenance of the institute. This is obviously in line with the EDII philosophy.

As the design of the building deals with climatic aspects, there are no heating or cooling costs with the exception of some air-conditioning units in the director's office, the computer room and the main classrooms. These air-conditioning units are necessary during the summer months; however, according to the users, the inside temperature of the rooms is bearable for the major part of the year.

V. **Technical Assessment**

a. *Functional Assessments*

Possibly the most interesting element in this project are the two axes that link the buildings. In an article by Ranjit Sabikhi published in *Architecture* (Vol. 78, No. 9, pp. 88-89) he states: "Starting with a featureless site, Patel created a sequence of spaces linked by courtyards and corridors. The complex consists of five verandah-type buildings - three for academic facilities, two for dormitories whose rooms edge an open courtyard. The connecting corridor itself is an exciting space, expanding both sideways and upward. There are at intervals wide staircases leading to an upper level where more academic facilities will be built. Endowing the corridor with visual interest and variety are natural light from above and below, alternating flat and arched lintels spanning openings to adjoining court yards".

The second most interesting element is the use of open courtyards and their relation to the rooms through galleries or verandahs. The columns are well proportioned, the width of the galleries is sufficient to protect the rooms from sun light; however, the disposition of the library and dining hall necessitates the crossing of exposed open space in a harsh climate.

b. *Climatic Performance, Lighting, Ventilation, Acoustics, Orientation, etc.*

The area of the courtyards is large in proportion to building heights. The reason for this as explained by the architect is that such proportions will keep the "buildings as ventilated as possible" with cool air. This will certainly be true when the trees in the courtyard have grown. He argues that this pattern is frequently used in traditional buildings where large trees cover most parts of the courtyard. His argument is quite acceptable as the Technical Reviewer observed that rooms around the courtyard have openings on two opposite sides; one towards the courtyard and the other towards the surrounding gardens. When the windows on both sides are opened, there is always a cool breeze of air. Windows are closed only in the middle of summer in the afternoons. Galleries around the courtyards create a transition space between the harsh light of the court and the shaded rooms.

All windows are recessed towards the inside and not flush with the façade; this creates shade around the windows that are not protected by the galleries of the courtyards. During the monsoon season they are better protected from the rain.

c. *Choice of Materials; Level of Technology*

The choice of materials is successful compared to most buildings in Ahmadabad. The use of concrete lintels with the brick background is quite charming. Different colours of stone on the floor gives the wall surfaces an added charm. Although the building technology used is the standard in Ahmadabad, the overall appearance of the building is very pleasing.

d. *Ageing and Maintenance Problems*

One section of one of the buildings has settlement and some cracks are apparent. They are not major according to the structural engineer.

One of the major problems is the treatment of water spouts. The architect has used the position of water spouts as decorative elements without installing the water spouts. This has led to rain-water washing the walls and has affected the appearance.

Open water drainage is carefully placed around courtyards and is successfully used as a decorative element. They can easily be cleaned. This would reduce maintenance problems.

e. *Design Features: Massing and Volume, Articulation of Spaces, Integration With the Site*

The total site area is 23 acres. The total ground floor area is 5'100 m² and the total combined floor area of phase one is 6'600 m². Phase two is not yet built.

The institute is composed of seven buildings which are connected by two axes which are perpendicular and converge on the entry pavilion. The form of the entrance pavilion, with its use of brick, concrete and light green pyramidal profiled aluminium roof, summarises the EDII's morphology.

VI. Users

a. *Description of Those Who Use or Benefit from the Project*

The EDII has 20 full-time and 10 visiting faculty members. Faculty members are paid INR 9'000 on average. The student body is quite diverse in terms of income, culture and religious background. There are two main categories of courses for two distinct socio-economic classes of students. One is governmental employees, businessmen and the like who will become trainers or researchers in other States or countries in the field of entrepreneurship. The others are the individuals who will become entrepreneurs, and they are usually from a less affluent section of society.

There are five types of entrepreneurship programmes. The programme for entrepreneurs is usually held in the evenings. It is a three month course of four hours a day. This course is meant for the residents of Ahmadabad. It usually accepts 30-35 students. The EDII can run two such courses at any one time. Each course is taught by 10 faculty members and 15-20 practitioners.

The programme for future trainers is usually six weeks long with six hours a day and six days a week. This course is meant for those who will stay in the campus hostel. It usually accepts 20 students. Each year the EDII usually runs two courses for India and one for developing countries. However, the EDII has become more and more active and this year they ran ten courses for India and five programmes for Third World countries (for detail of courses and programs see attached documents).

b. Response to Project

The users are proud of their institute and this is reflected in their care of the facilities. Classrooms, offices, etc. are all well maintained. However, there are some drawbacks; the position of the door frames, on the external surface of the wall, make it difficult to open the doors 180°. They can only open 90°. Some users complained about the room separation, while others took advantage of it. One might argue that the low walls which divide the rooms are an inefficient use of resources.

VII. Persons Involved

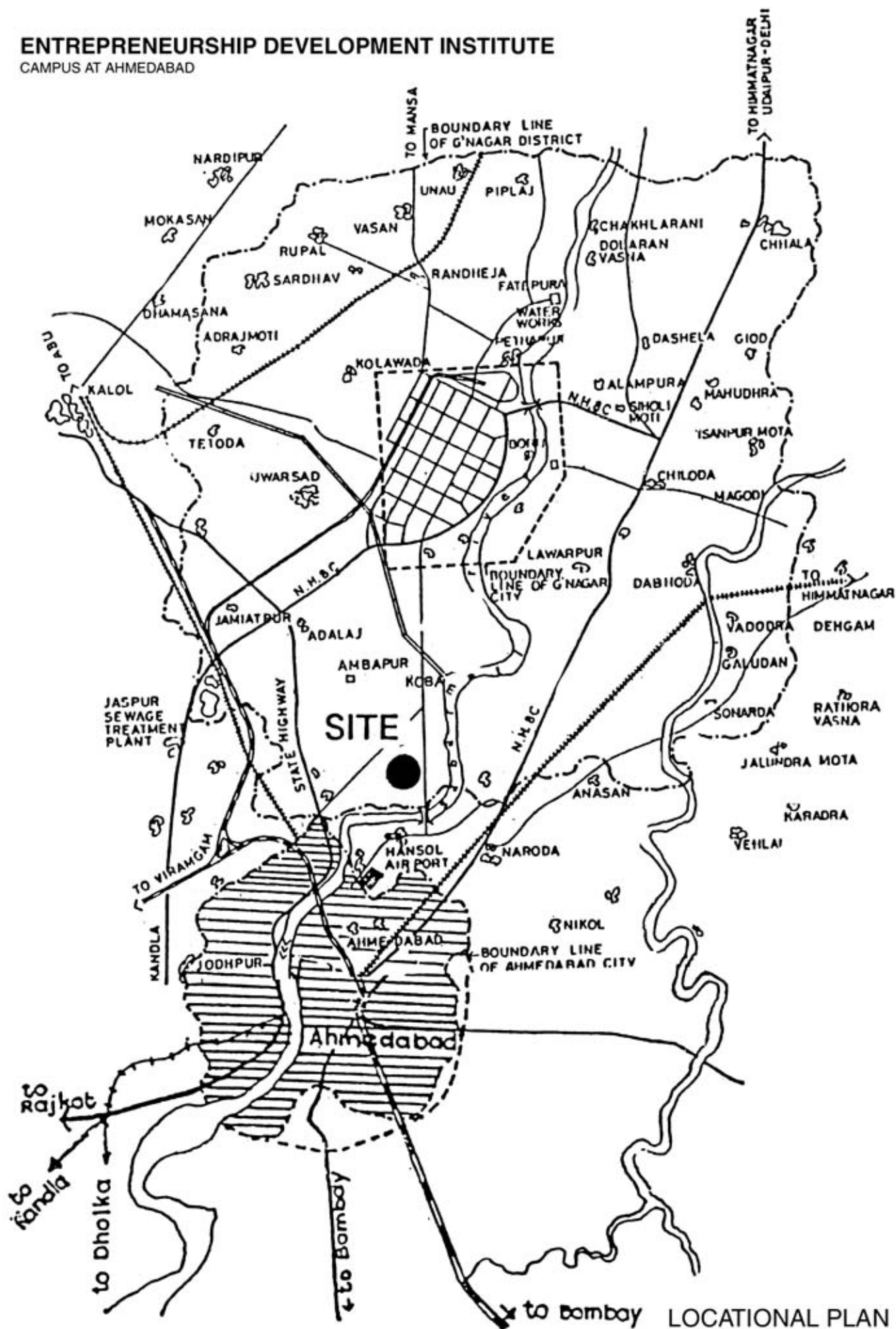
Two individuals are responsible for the project's success. V.G. Patel is the director of the institute and the driving force of the EDII. He is the founder of the institute and has raised the needed funds to build the current facilities. The second person is the architect, Bimal Patel. Although they both have similar names, this did not affect the EDII's selection of the architect. The architect's design was selected by a jury through the screening process.

Jamel Akbar

Ahmadabad, May 1992

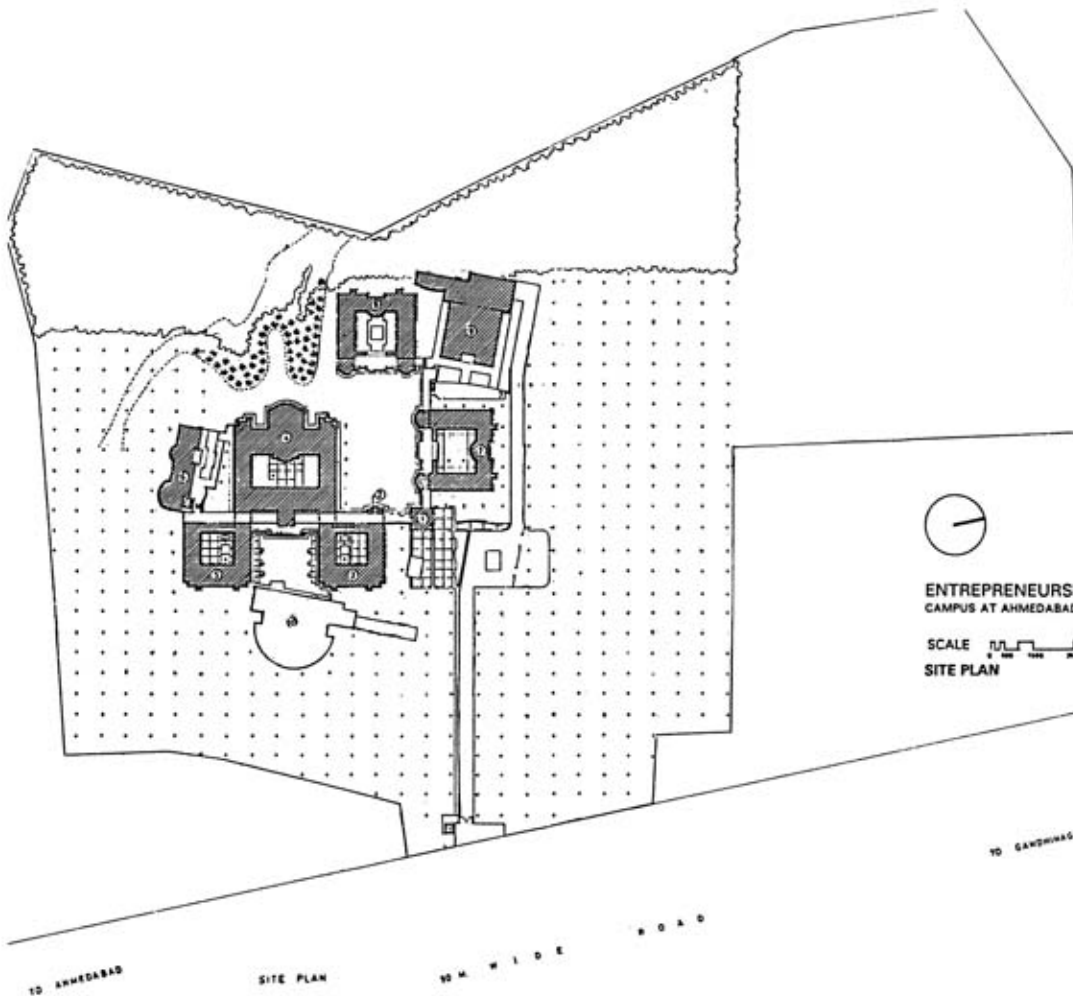
ENTREPRENEURSHIP DEVELOPMENT INSTITUTE

CAMPUS AT AHMEDABAD



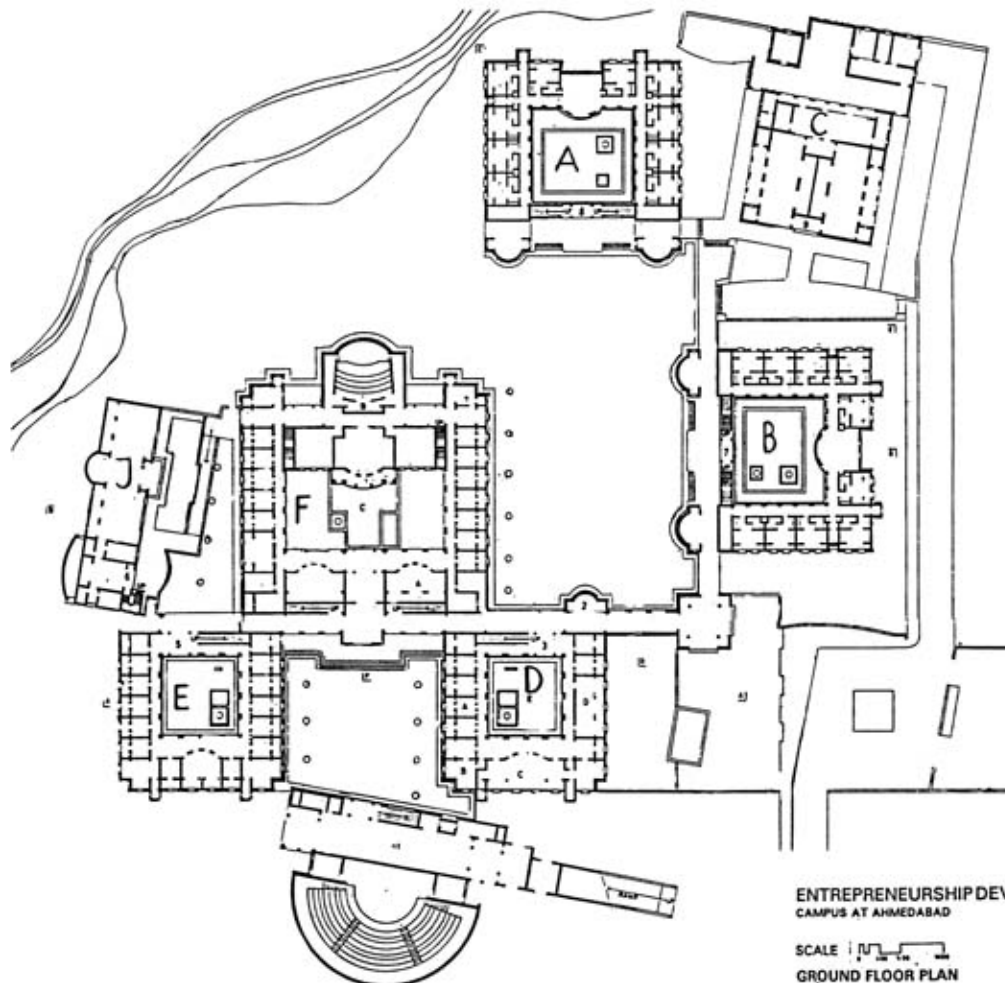
LEGEND

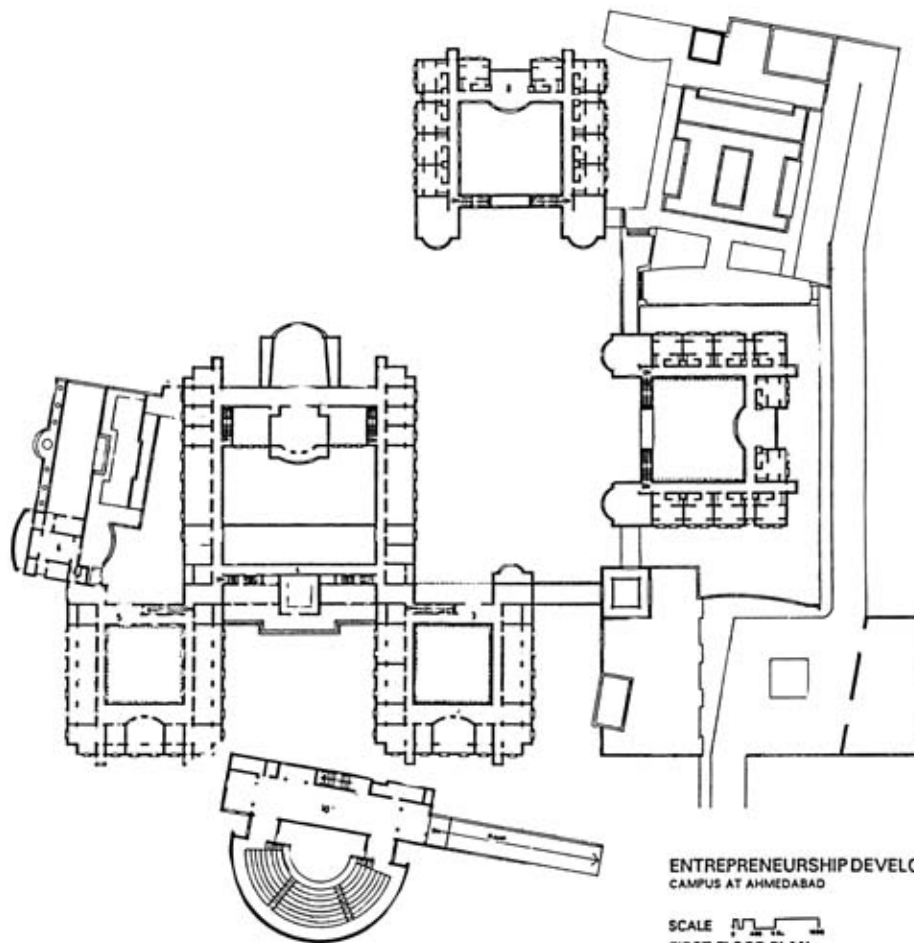
1. Entrance
2. Inquiry
3. Administration
4. Training Center
5. Research Center
6. Library
7. Trainees Hostel
8. Deluxe Hostel
9. Kitchen - Dining
10. Auditorium (Second Phase)



LEGEND

1. Entrance
2. Inquiry
3. Administration
 - A. Room
 - B. Director
 - C. Board Room
 - D. Waiting
 - E. Court
4. Training Center
 - A. Computer Room
 - B. Lecture Hall
 - C. Court
5. Research Center
6. Library
7. Trainees Hostel
8. Deluxe Hostel
9. Kitchen - Dining
10. Auditorium - Canteen





- LEGEND
1. Entrance Below
 3. Administration
 4. Training Center
 5. Research Center
 6. Library
 7. Trainees' Hostel
 8. Deluxe Hostel
 10. Auditorium

ENTREPRENEURSHIP DEVELOPMENT INSTITUTE
CAMPUS AT AHMEDABAD

SCALE 1/4\"/>



SCALE 1/4\"/>

ENTREPRENEURSHIP DEVELOPMENT INSTITUTE
CAMPUS AT AHMEDABAD

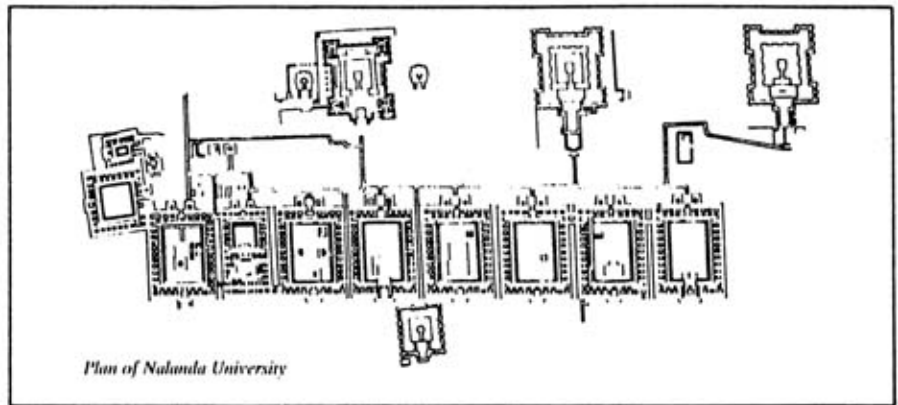
The Entrepreneurship Development Institute campus very clearly manifests the dilemma, not necessarily a negative one, faced by the emerging stream of third generation architects in independent India. The dilemma, purely in terms of campus planning and architectural design, relates to the nature of outdoor spaces as defined by buildings surrounding them and the principles used in relating these buildings to each other and to the site.

The dilemma is essentially caused by two diametrically opposite attitudes the architect-planner has to reckon with at this juncture. The first of these attitudes is best exemplified, in its most raw, primordial sense, by the historical Nalanda campus. This complex consists of a series of building units (the individual *vihara*) laid along a path, facing a few temples. The layout gives no indication of where one arrives, destinations within the group of buildings, a focal point if any, or other such attributes of a campus in contemporary parlance.

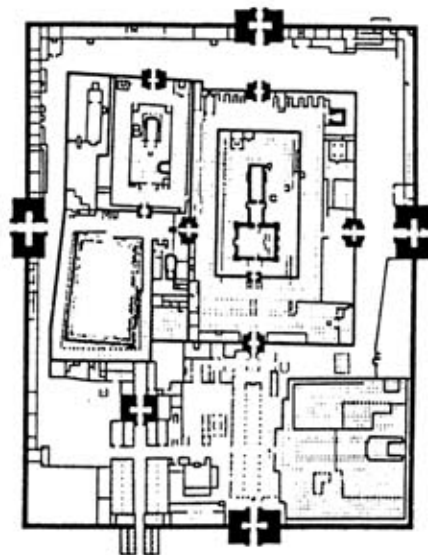
In the same vein, there are medieval campuses which, (while perhaps more religious or administrative in nature, such as our temple and palace complexes), clearly exhibit the principles underlying the layout of a particular group of buildings. In the case of temples, these are more esoteric, whereas in the case of palace complexes they are more utilitarian. Nevertheless, both of these types manifest an introverted approach, where constituent buildings are physically continuous and relate to each other through, or around courtyards. The courts, despite being open-to-sky spaces, come into being by a clever, but strong disposition and massing of buildings around them. Their existence is mutually interdependent and defined by one another. Temples at Tanjore, Madurai, or in another context, even a large-scale campus such as the Red Fort at Delhi, are examples that could be cited in this regard.

However, in modern India, in a manner of speaking, the above approach has been turned 'inside out'. Layouts on the whole, form the major concern of campus planners today, wherein a sense of hierarchical organization prevails beginning with the arrival and continuing with the disposal of individual buildings. To reflect this hierarchical relationship, paths of movement become a dominant feature of campus planning.

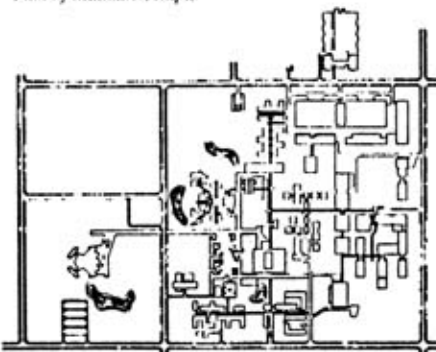
This new approach no doubt manifests a desired change, but along with it emerged the principles of modern architectural design. The open-to-sky spaces, earlier contained strongly by the built form, were opened up and merged with the infinite space of the terrestrial world. The individual building itself became the focus of design effort, as a three-dimensional object set in this infinite space. The open-to-sky space, so vital for tropical conditions (if con-



Plan of Nalanda University



Plan of Madurai Temple



Site plan of the Indian Institute of Technology, Kanpur. Architect: A P Kanvinde.

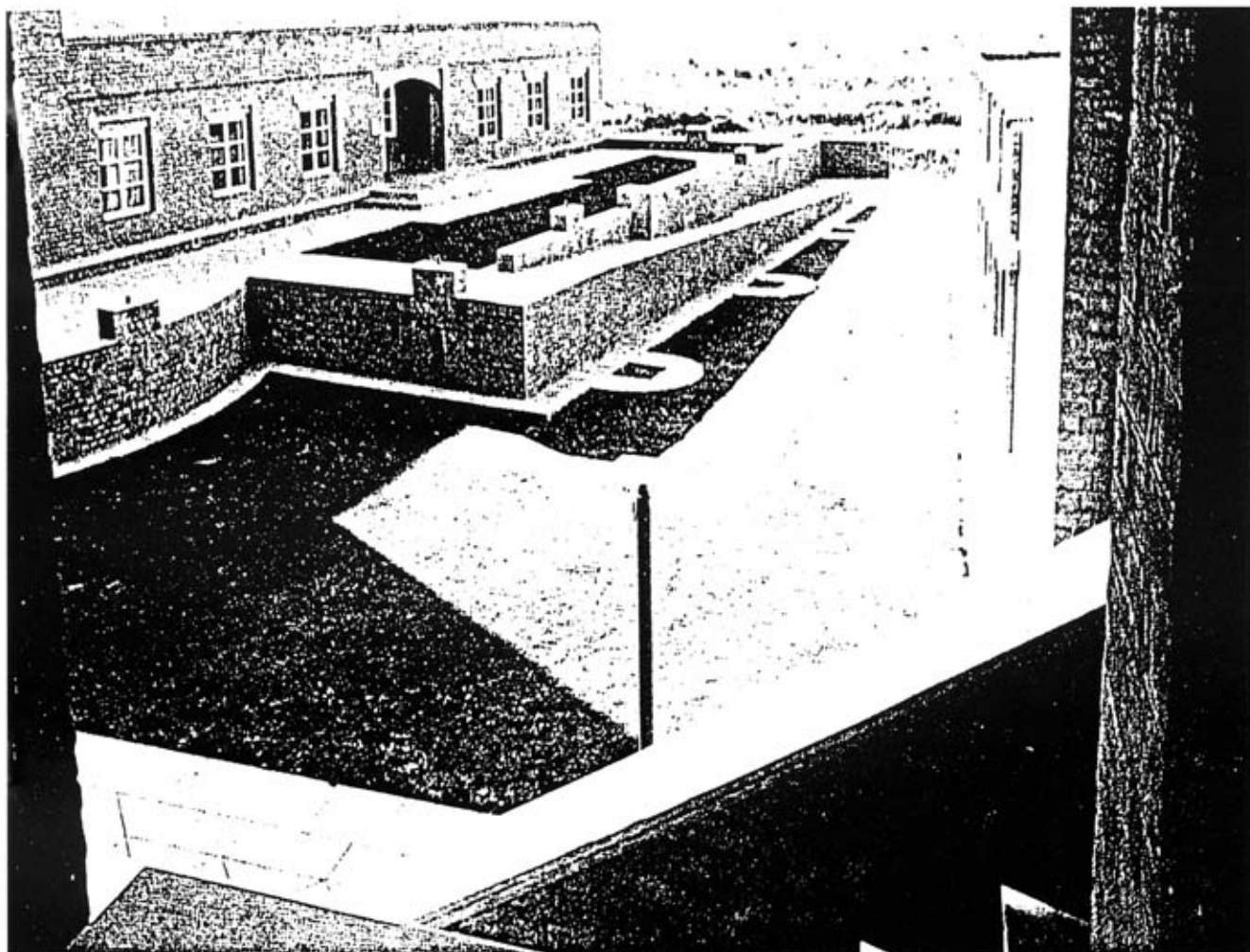
trolled) now became a mere foreground to the buildings. You could be either indoors or outdoors and the option of an 'indoor-outdoor' space offered by a built-up courtyard was lost. The Benaras Hindu University (BHU) campus and its more orthogonal variations right down to the Indian Institute of Technology campuses are examples that could be cited in this regard. To adhere to the planning principles of Nalanda or the BHU, the Madurai temple or the Institutes of Technology constitutes the dilemma confronting Indian architects and planners today.

Which of these above two attitudes does the campus for the Entrepreneurship Development Institute (EDI) manifest? Interestingly, both. The EDI campus responds to both latent desires: on the one hand, to organize a campus as an introverted built environment as conveyed by internal courts, and on the other, to set the buildings with a foreground which, in the third dimension, merges into infinite space.

This is evident by the manner in which the courtyards of individual buildings are clearly defined emphasizing the built form in the first place, and in the second, the manner in which the outside spaces between the buildings are left unbuilt or undefined. This gesture strongly conveys the impression of freeing these outside spaces as in the case of the space immediately south-west of the entrance pavilion, between the hostel blocks and the rest of the academic blocks.

The dual-response organization succeeds because of the manner in which the single, major route of movement is established and strengthened as an architectural element. This becomes the key element of the EDI campus organization: the spine stretching from the entrance pavilion to the library. It works owing to the intense give and take that occurs between this rather narrow, straight, linear space which is alternately relieved and enriched by the outdoor and indoor, open-to-sky spaces as one moves along it. The aggregate visual experience here is one of contained spaces; the eye does not travel too far out towards the horizon. The net result is one of a unified relationship of spaces, internal courts as well as outdoor spaces and the buildings that define them both.

The hierarchical relationship of buildings from the entrance onwards is as one would normally expect in the case of an academic building. More than its location, the manner of routing the movement only through the entrance to the hostels from the academic block is puzzling. It is suggestive of a greater linkage between the hostels and the world outside the campus, rather than with the training block or the library itself. This is true because the campus is quite far away from both Ahmedabad city and Gan-



dhinagar and is not well served by mass transportation.

Apart from formal, planned routes of movement, yet another characteristic of modern campuses is the lack of a network of paths, informal and unsheltered, which complement casual and direct relationships between buildings. This is certainly true of the EDI campus where movement from each building, even to the next one, is only through the main spine.

Another feature worth noting is what may be termed as the absence of a main focal building which should be suitably disposed and expressed in the third dimension. A larger facade, perhaps a bit taller than the rest, does seem to be called for, to strengthen that one block which might be more important than the others.

This brings into discussion one major component of design that has not received the attention due to it. That is, the treatment of facades, especially the external ones. While the internal walls facing the indoor courts are spatially enriched by an arcade running all around and a well developed court surface, the external surfaces appear to have been deliberately treated like the rear faces of the buildings. This makes them visually dull and climatically places them at a greater disadvantage. Fenestration too, further accentuates this experience by suggesting a massive, monotonous exterior. There is a therefore,

a marked contrast between a rather rich inside environment and a stark, plain exterior. If this was indeed the intention it has certainly worked.

Fortunately, the design of a campus calls for many more important considerations than those discussed above, and EDI succeeds in responding appropriately to several of these.

To begin with, the dual response to the dilemma discussed earlier, itself generates an environment which is infinitely richer compared to the 'solid blocks spaced far apart along a movement network' kind of campus environment that one often observes. The spatial experience at EDI is therefore a great improvement over normal current practices. This is because it is rare in contemporary design that indoor open-to-sky spaces be employed as an active design element, and be treated as more than mere picturesque, green pockets in a large structure, or simply as light and air shafts. In more academic terms, the changed attitude may be seen as the reintroduction of the introverted character of built form historically practised in India; that is, the outside is again being shaped as the inside.

Starting with an almost perfect location of activities, the design effort in EDI is carried further to attend to more secondary and tertiary aspects of the buildings. Take, for instance, the main movement spine. Unlike other contemporary campuses, this

is not just a stretch of finished floor with a monotonous row of columns supporting a 'dropped' slab. Practically each metre length of this spine responds to what is made to happen on its edge, in both the horizontal and vertical dimensions. Its articulation at the point of entrance to the training block is amply indicative of the sensitivity of the design response, not to mention the three-dimensional treatment accorded to an otherwise plain flight of steps to the first floor.

The most striking experience, and therefore the most lasting of the impressions of the EDI campus, is the solemn and serene nature of spaces. A restrained and austere use of materials and finishes has definitely helped to create a built environment at peace with its setting and perfect for academic pursuits. **Muktarajsinhji Chauhan**

Owner Entrepreneurship Development Institute of India
Architect Rimal Patel, M/s Hasnukh C. Patel, Ahmedabad, Jayanti Gunjaria, Arvind Patel (project team)

Consultants Vakil-Mehta-Sheth, Ahmedabad (structural), S K Murthy, Bombay (air-conditioning, electrical, drainage and water supply), P B Bhagvat, Ahmedabad (landscape)

Prime contractors Ganon Dunkerly & Co., Ahmedabad (civil, internal electrical and plumbing).

Area 6,820 sq m (Phase I) 2,390 sq m (Phase II)

Period of construction June '85 - Dec '87 (Phase I)

Cost Rs 1,65,00,000 (Phase I, including major infrastructural facilities for Phase II)



ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA
AHMEDABAD, INDIA

Architect: Bimal Hasmukh C. Patel

Client: Entrepreneurship Development Institute of India
Viharibhai G. Patel, Director

Contractors: Ganon Dunkerly and Company

Completed: 1987

The revolutionary concept of training entrepreneurs was pioneered in Ahmedabad in 1969. The idea developed and gradually became a national movement. Every state wanted to develop its own programme, resulting in the need for a national institution for entrepreneurship, one that would supervise all the others. Thus, the Entrepreneurship Development Institute of India (EDII) was established in 1983. A national competition with an innovative brief for the design of the EDII was elaborated in 1985. It was won by the young architect, Bimal Patel.

The Institute is composed of seven buildings organized on two axes. Along one axis are two hostels, a kitchen and a dining hall. The other axis is shared by the remaining four buildings: the administrative centre, the training and research centres, and the library. An auditorium was designed but has not yet been built.

The Institute responds well to the users' needs. The skilful grouping of two-storeyed buildings around open spaces, each with a distinct function and character yet linked to the two main axes, provides coherence for the various activities. Open arcades are used to organize the entire complex as well as the individual buildings, taking the best advantage of the pleasant surroundings and courtyards.

The courtyards were landscaped with stone pavements and grass and shaded by batam trees specially chosen for the large size of their leaves. The area around the buildings was also landscaped and planted with a grid of trees. In a few years, these trees will create a forest-like atmosphere.

Climatic control has been one of the major design concerns. The area of the courtyards is large in proportion to the building heights, and this keeps the buildings well ventilated. Galleries around the courtyards create a transition space between the harsh light



ABOVE: Because of the shading tactics used by the architect, classroom interiors stay cool most of the year without costly mechanical equipment.



of the court and the shaded rooms inside the buildings. The windows are recessed and protected against monsoon rains. The need for costly heating or cooling has been virtually eliminated. According to the users, the inside room temperatures are comfortable for the major part of the year.

Construction materials were chosen by the architect to conform to the restricted budget. Brick and concrete are the basic materials used, and both are locally available. Exposed concrete is used to accentuate the lintels over windows and doors as well as the arches which span the circulation corridors.

The buildings of the Entrepreneurship Development Institute are simple, handsome and contemporary. This young architect should be proud of his achievement.

The Jury's citation of this project reads as follows:

This innovative programme in education and training in entrepreneurship is housed in an open, congenial campus. The fruitful collaboration between the director of the Institute and the architect produced a fine example of a low-cost, low-maintenance building which promises easy replicability. The architect is commended for his confident use of formal elements growing out of the Indo-Islamic architectural heritage. A series of geometrically structured courtyards and loggias are the primary organizing framework. The variation of open, closed and transitional spaces provides light and shade, and creates an inviting environment for work, interaction and repose.



The complex responds well to the client's needs because of the skilful positioning of buildings and open spaces; BELOW: Location of the Entrepreneurship Development Institute on the outskirts of Ahmedabad.



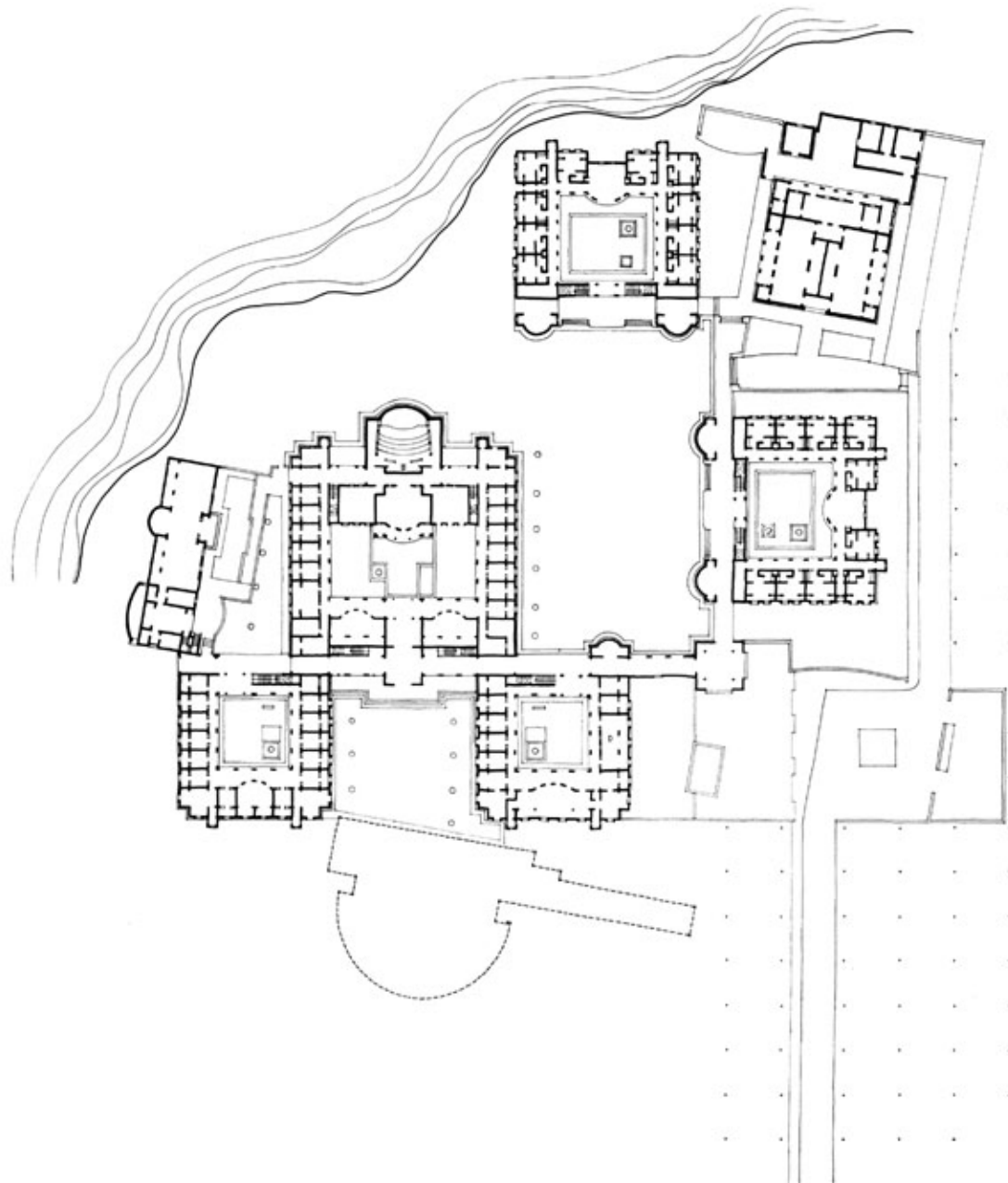




ABOVE: Classrooms are functional and comfortable;
BELOW: Site plan of the EDII campus; OPPOSITE ABOVE
AND BELOW: The main open quadrangle in the centre of
the Institute and a subsidiary courtyard grouping.







ABOVE: The rooms of the trainees' hostel allow students to live on campus, and are linked to a building containing a kitchen and catering facilities; BELOW: Ground floor plan of the Institute; OPPOSITE ABOVE AND BELOW: A limited number of construction materials were chosen by the architect in order to conform to a restricted budget. The way that these materials are combined establishes a theme that unites the various buildings into a whole.



The Aga Khan Award for Architecture

ARCHITECT'S RECORD

CONFIDENTIAL

I. IDENTIFICATION

Project Title The Entrepreneurship Development Institute of India

Street Address BHAT (via Ahmedabad Airport - Indira Bridge)

City Chand Kheda Postal Code 382424 Country India

Telephone 0272 - 811331 Facsimile _____ Telex 0121-6224 EDII-IN

II. PERSONS RESPONSIBLE

A. Architect/Planner

Name Bimal Patel, Partner-M/s H.C. Patel, Architects and Planners

Mailing Address Paritosh, Usmanpura,

City Ahmedabad Postal Code 380013 Country India

Telephone 0272 - 448875 Facsimile _____ Telex 0121-6895 HCP-IN

B. Client

Name The Entrepreneurship Development Institute of India

Mailing Address Bhat (via Ahmedabad Airport - Indira Bridge)

City Chand Kheda Postal Code 382424 Country India

Telephone 0272 - 811331 Facsimile _____ Telex 0121-6224 EDII-IN

C. Consultants (e.g. Engineers, Economists, Sociologists, Historians, etc.)

Name VMS Consulting Engineers (structural engineering)

Mailing Address Chitrakoot, off Ashram Road,

City Ahmedabad Postal Code 380009 Country India

Telephone 0272 - 448829 Facsimile _____ Telex 0121-6517

D. Master Craftsman/Contractor

Name Ganon Dunkerly and Company (general Contractors)

Mailing Address Ramnivas, Khanpur,

City Ahmedabad Postal Code 380001 Country India

Telephone 0272 - 351242 Facsimile _____ Telex _____

Please cite other project affiliates overleaf

Additonal Consultants:

S K Murthy, Consulting Engineers (electrical, plumbing)
3rd. fl. Imperial Mahal, Khodadad Circle, Dadar, Bombay-400014, Inida.

Design Team (M/s H. C. Patel, Architects and Planners)

Bimal Patel Architect

J M Gunjaria Architect

A I Patel Engineer

R G Desai Engineer

III. USE

- A. Specify type(s) of use Educational Institution
- B. User(s) or Occupant(s)
- Occupation/Profession Teachers, Researchers, Students
 - Income Level (check one) High Medium Low ☒ Mixed
- C. Specify any change(s) between planned and actual use:
None

IV. PROJECT TIMETABLE

(Please specify year and month)

- A. Design: Commencement Feb. 1985 Completion Aug. 1987
- B. Construction: Commencement Feb. 1986 Completion Aug. 1987
- C. Date of Project Occupancy Jun. 1987

V. PROJECT ECONOMICS

(Please specify amount, currency and date of transaction)

- | | Amount | Currency | Date |
|---|----------------------------------|----------------------|---------------------|
| A. Total Initial Budget | <u>15 000 000</u> | <u>Indian Rupees</u> | <u>Feb. 1986</u> |
| B. Cost of Land | <u>(subsidized by the govt.)</u> | | |
| C. Analysis of Actual Costs | | | |
| 1. Infrastructure (since a general contractor was appointed 1,2,and 3 can not be seperated) | <u>14 000 000</u> | <u>"</u> | <u>1986 to 1988</u> |
| 2. Labour | | | |
| 3. Materials | | | |
| 4. Landscaping | <u>450 000</u> | <u>"</u> | <u>"</u> |
| 5. Professional Fees | <u>820 000</u> | <u>"</u> | <u>"</u> |
| 6. Other <u>tubewell etc.</u> | <u>2 200 000</u> | <u>"</u> | <u>"</u> |
| D. Total Actual Costs (without land) | <u>17 400 000</u> | <u>"</u> | <u>"</u> |
| E. Actual Cost per sq.m. | <u>1700</u> | <u>"</u> | <u>"</u> |

F. Cost Comparison

Please indicate how the costs of this project relate to typical building costs in the country (check one):

X Average Above Average Below Average

G. Sources of Funds

1. Please indicate the percentage of funds that came from:

Private Sources X Public Sources

2. If funding was public, what percentage was from:

Local Sources X National Sources International Sources

Please continue overleaf

VI. CONSTRUCTION DETAILS

A. Site and Building Area (please indicate in square metres)

1. Total Site Area 23 Acres
2. Total Ground Floor Area 5100 sq. mt. (ground floor), 1500 sq. mt. (first floor)
3. Total Combined Floor Area 6600 sq. mt. (only phase one of the project is complete)
(including basement(s), ground floor(s) and all upper floors)

B. Construction and Technology

Describe the structural system and the basic method of construction. For restoration projects, please describe the techniques used in the conservation of the original structure.

The structural system consists of load bearing brick walls, reinforced cement concrete columns, beams and slabs, and steel trusses in a few locations.

C. Description of Materials

(please also indicate if locally produced or imported and whether fabricated on-site or elsewhere)

All materials used in the building was locally produced and fabricated on the site.

1. Foundations
Brick foundations in most places.
A few column footings were in RCC.
2. Principal Structural Members
Brick and Reinforced Cement Concrete
3. Infill
Brick
4. Rendering of Facades or Exterior Finishes
Exposed Brick and RCC Finishes
5. Floors
A variety of stones and Mosaic Tiles
6. Ceilings
Exposed Reinforced Cement Concrete
7. Roofing
Corrugated Aluminium Sheets in a few locations
8. Other elements (please specify)
Mild steel tube trusses in a few locations; doors and windows are made of wood.

D. Type of Labour Force (please indicate percentage)

30% Skilled Workers 70% Unskilled Workers

E. Origin of Labour Force

100% Domestic Foreign

Please continue overleaf

VII. GENERAL GEOGRAPHY AND CLIMATE

Please describe the local climatic and geographic characteristics and the extent to which these have been taken into consideration in the design process.

Ahmedabad falls within a hot-arid zone with temperatures ranging from 7 to 47 degrees celsius. The annual cycle comprises summer, from March to June; the monsoon from July to October; and winter from November to February. Ahmedabad being located almost on the Tropic of Cancer, the sun in summer is overhead and the light is harsh. Precipitation during the monsoon averages 600 m.m.. The terrain is generally flat and vegetation is sparse. The soil is clayey loam.

With regard to response to the climate see IX below.

VIII. EVOLUTION OF DESIGN CONCEPTS

Please describe the history of the project, from its conception to its final construction and actual use.

The Entrepreneurship Development Institute of India (EDII) is an autonomous educational institution, jointly sponsored by premier financial institutions of India and supported by international development agencies like the World Bank and ILO. Its objective is human resource development in the Third World through the fostering of entrepreneurship skills of people. Towards this end EDII offers short term and focused courses for small groups of people. Students from 51 different countries of Africa and Asia have participated in these courses.

EDII was set up in 1983 and functioned from a small house in Ahmedabad for a couple of years. Students from out of town resided in the city's hotels. In 1985 EDII decided to build a campus of its own that would include boarding and lodging facilities, classrooms, offices, a library and an auditorium. Land was bought from the State Government at a subsidized price. Five architectural firms were invited to prepare conceptual designs. the design submitted by our firm, M/s H. C. Patel, Architects and Planners, was selected for refinement and execution.

My design for the EDII campus was shaped by three factors: 1) my analytical study of Indian Islamic architecture; 2) the fact that I was heading a design firm that had for long been a pioneer of 'Modern' architecture in India; and 3) the client's insistence on making a campus that was in harmony with nature - one that was not dependent on artificial energy.

My study of Indian Islamic architecture - a thesis that I eventually submitted for my Masters degree at the Univ. of California, Berkeley - was carried out at the same time that I was working on the design for EDII. It was prompted by my fascination with Islamic architecture and a strong belief that the only way to produce contextually relevant architecture today (at least in North-Western India) is to draw lessons from the five century heritage of Islamic architecture. (Please see the one-page introduction to my thesis which is appended with this form.) The study was aimed at identifying, as clearly as possible, principles of architecture that might be used by contemporary architects in India. More importantly however, by drawing, re-drawing and analyzing drawings of Islamic buildings I wished to reform my sensibilities as a designer. This I felt was necessary to counter-act the intensive exposure to non-Indian architecture during my schooling as an architect. The fact that I was heading a team steeped in the Modern idiom was very helpful. Any attempt to superficially replicate older architecture was held in check and the insistence on abstraction of the essence was always at the forefront. The clients insistence on a building in harmony with nature was also helpful and perfectly compatible with my search for lessons from Indian Islamic architecture.

EDII decided to construct the building in two phases. Phase one (what is complete to date) was constructed between '86 and '88. A sensitive and competent general contractor was appointed for a large portion of the work. The campus was occupied two months before the final completion of some of the buildings. That the campus is immaculately maintained is, at least in India, a sure sign that the people using the buildings enjoy them, respect them and take pride in them.

Please continue overleaf

IX. PROJECT SIGNIFICANCE AND IMPACT

In what way is this project important ? Please describe the aspects of the project which represent a particular achievement (for example the technical, economic, or social achievement, or its response to culture, climate, etc.).

This project is significant from at least three perspectives:

1) It is a serious and successful attempt at developing a contemporary architecture which is rooted in the rich architectural heritage of the region. Of this heritage the body of Indian Islamic architecture is most important.

For almost five centuries the culture of Islam dominated the region and has shaped the sensibilities of its people. This is true even though the majority of the people are not Muslims and is evident in the arts and artifacts of the region. It makes immanent sense to draw lessons from the heritage of Islamic architecture of the region to inform and enrich our buildings today in a way that is meaningful to a majority of the people.

Drawing lessons from one's heritage is however, not a simple matter. In Indian Islamic architecture there is a deep structure of underlying patterns which govern the character of built form, its relationship with nature and movement through it. It is this deep structure which must inform contemporary architecture. The campus for the EDII reflects this commitment and attitude in its design. For example: its use of a series of formal and geometrically regular courtyards as primary organizing elements; the juxtaposition of built form to create meaningful out-door spaces, the sequencing of courtyards, porticos and enclosed spaces; the harmonious relationship with the landscape; its use of still water pools; the character and positioning of entrances to various spaces; the deliberate ordering of movement through courtyards and open to sky spaces; and the character of its staircases. Since EDII is a host to students from a number of Islamic countries this aspect of its campus design is of particular significance.

The region also has a strong and more recent heritage of modern architecture - as exemplified in the works of Corbusier, Kahn, Doshi and others. In its emphasis on the economy of means and on meaningful abstraction and simplification, this tradition is of great importance. The design for EDII draws on and respects the concerns of this tradition. This respect is most apparent in the fact that there is no simplistic transliteration of older forms and ornaments.

2) The project was constructed entirely with the use of locally produced materials and locally available labor.

This is particularly important in the context of developing countries. It demonstrates the possibility of developing a contemporary architecture that does not need expensive imported materials and technology to assert its contemporaneity. This aspect of EDII's campus design is all the more important because EDII is host to a number of students from relatively poor countries in Africa and Asia for whom the campus can serve as an example of what is possible.

3) EDII's buildings do not depend on artificial energy to be comfortable.

Once again this is particularly important for developing countries and increasingly so the world over. The variety of spaces - enclosed, semi-enclosed and open-to-sky - serve well since the climate is characterized by significant variations in temperature and humidity. The articulation of wall surfaces (eschewed by Modern architects in the 60s and 70s) and recessed windows with weather-shades, serve well to reduce penetration of sun rays in the summer. The intimate connection with the landscaping in the courtyards and outside helps lower the ambient temperature during the summer and is in keeping with the architecture of the past which was in harmony with nature.

Please continue overleaf

X. PRESENTATION REQUIREMENTS

- A. The materials described below are the minimum requirements for project presentation. These materials will be used in the preparation of standardised presentations to be constituted by the Award office and reviewed by the Master Jury. Subsequently, they will form part of the permanent Award archives and may be made available for public consultation.

The submission materials should be clearly identified and should not be bound or mounted. For slides and photographs, a list of captions should be provided for each image; the name(s) of photographer(s) and date(s) of photography should also be specified.

1. Map indicating location of project in city, community, neighbourhood, or landscape.
2. Ten (10) photographs; preferred and maximum size for A4 presentation (18 x 24 centimetres).
3. Twenty (20) slides; 24 x 36 millimetres.
4. Drawings; preferred and maximum size for A3 format presentation (29,7 x 42 centimetres).
Site, Roof, and Massing Plans;
Floor Plan(s);
Elevations;
Sections.
5. Curriculum Vitae, or Firm's Prospectus.

- B. The submission of additional materials is encouraged. Please specify any appended materials not listed above.

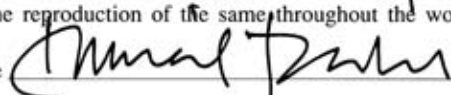
- 1) A copy of : Form Space and Order - Learning From Indian Islamic Architecture, Bimal Patel, 1987. A these submitted to the University of California, Berkeley.
- 2) A brochure on the Entrepreneurship Development Institute of Inida.

- C. Please indicate other sources of information on the project(s), e.g. publications, personal contacts, etc.

- 1) 'Architecture', Journal of the American Institute o fArchitects, Annual Review of World Architecture, September, 1989.
- 2) Architecture + Design (India), June, 1989.
- 3) Professor Donlyn Lyndon, Dept. of Arch., Univ. of California, Berkeley, USA. (Prof. Lyndon was principal advisor for my these at Berkeley)

Please note: The submission of this Record is a prerequisite to candidacy for the Award. All information contained in and submitted with the Record will be kept strictly confidential until announcement of the Award is made. Subsequently, such material may be made available by the Aga Khan Award for Architecture and you hereby grant the Aga Khan Award for Architecture a non-exclusive licence for the duration of the legal term of copyright (and all rights in the nature of copyright) in the Material submitted to reproduce the Material or licence the reproduction of the same throughout the world.

Signature



Name (please print) Bimal Patel

Date 1-8-91

All materials should be forwarded to:

The Aga Khan Award for Architecture

Award Procedures
32, chemin des Crêts-de-Pregny
1218 Grand-Saconnex
Geneva, Switzerland

Telephone: (22) 798 90 70

Facsimile (22) 798 93 91

Telex 415 418 AKAA CH

**The Client's Record
is not available for this project**



The Aga Khan Award for Architecture

32, Crêts-de-Pregny, 1218 Grand-Saconnex, Geneva, Switzerland, Telephone (22) 798 90 70, Facsimile (22) 798 93 91

NOMINATION FORM

CONFIDENTIAL

I. PROJECT IDENTIFICATION

A. Project Title ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA

Address _____

City AHMEDABAD Postal Code _____ Country INDIA

B. Date of Completion December 1987

C. Architect BIMAL HASMUKH PATEL of M/S HASMUKH C. PATEL

Mailing Address Paritosh, Usmanpura,

City AHMEDABAD Postal Code 380 013 Country INDIA

Telephone 448875 Facsimile _____ Telex 0121-6895 HCP IN

D. Client ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA

Mailing Address _____

City AHMEDABAD Postal Code _____ Country INDIA

Telephone _____ Facsimile _____ Telex _____

II. PROJECT DESCRIPTION

Please give a brief description of the project.

Entrepreneurship Development Institute of India, is one of the new institutional complexes in the historic city of Ahmedabad. The city is known for its traditional business accumen and rich heritage of Islamic, Hindu and Jain architecture.

It provides specialised training in various aspects of business management to trainees drawn from all over India. In the secular India citizens belonging to all religions including Islam have equal rights and access to such institutions. Thus the project can be considered as catering to the large muslim population of India.

It incorporates study and research facilities, lecture halls and auditorium, administration and hostels for students. The design is based on the concept of courtyard blocks.

The project covers an area of 6,820 Sq.Mt in the 1st phase which costed Rs. 1,65,00,000/- . It was completed in a scheduled period of 18 months and inaugurated in December 1987.

(please continue overleaf)

III. NOMINATOR'S STATEMENT

Please indicate why you feel this project is important and should be considered for the Award.

The EDII project is important work of the young architect reflecting the emerging contemporart architecture, rooted in the rich cultural heritage. Architect Bimal Patel who has studied the form, space & order in Indian Islamic Architecture* has succeeded in expressing these values in his works, particularly in the EDII project.

His architecture is evolved from a sensitive understanding of the hot dry climate of the region. The choice of the courtyard block typology and its articulation is a very matured design strategy. The design and construction show a deep sense of order. The built-form and quality of spaces is humane and conducive to the process of learning.

The project truly reflects the spirit of Islamic Architecture in its most basic principles and traditions in the context of our time and region.

IV. ADDITIONAL INFORMATION

Please append visual materials (ie: slides, photographs, drawings, or sketches) and also indicate possible sources of information on the project. bibliographical or other.

The following additional material is enclosed herewith:

- a. Color slides
- b. B & W Photographs
- c. Copies of published articles along with drawings.
- d. Copy of Graduate thesis



Link corridor. Buildings are juxtaposed in the landscape to create a series of meaningful outdoor spaces



Entrance pavillon and hostel block



Hostel block, courtyard. Architectural expression draws on meaningful abstraction and simplification of details



Entrance pavillon



Administration block. Buildings are juxtaposed in the landscape, to create a series of meaningful outdoor spaces



Link corridor looking North



Administration block, courtyard



Hostel block, courtyard



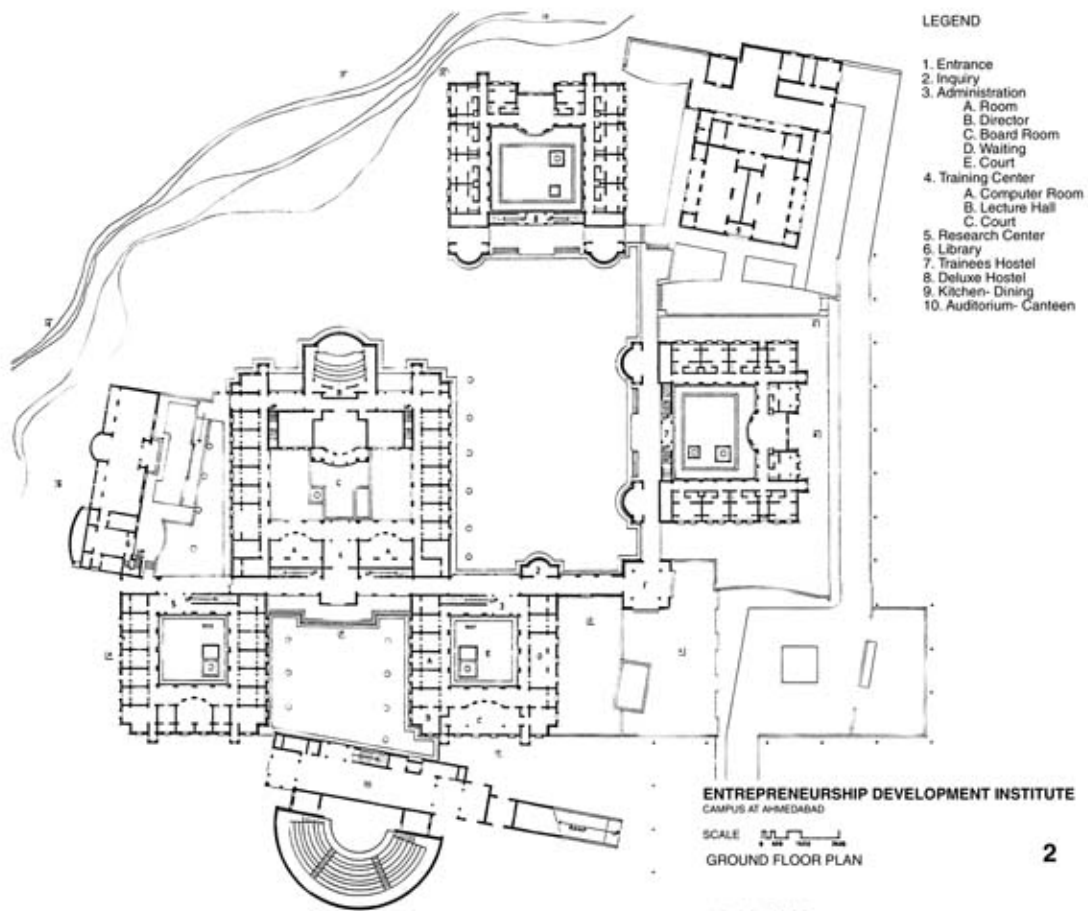
Hostel block. The scale of the campus is reinforced by the monumental, fortress-like imagery



Library courtyard. Pitched roofs of profiled metal sheet have been used to accentuate entrances



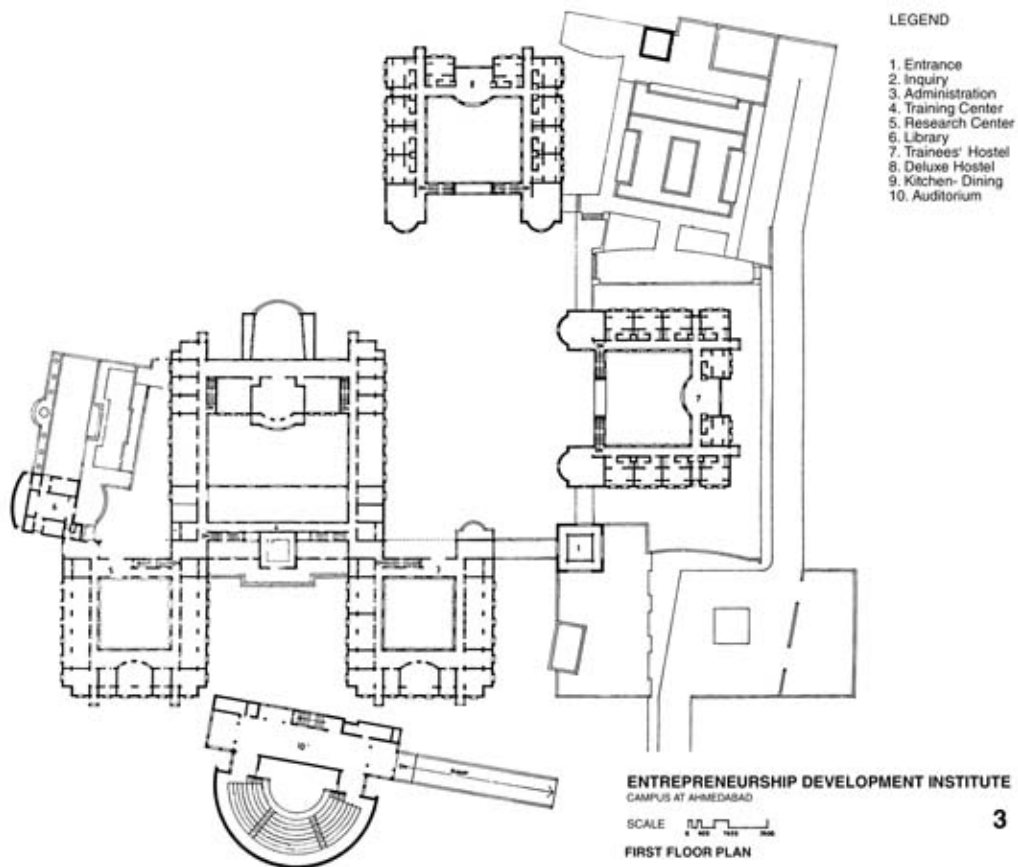
Link corridor



2

1240. IND

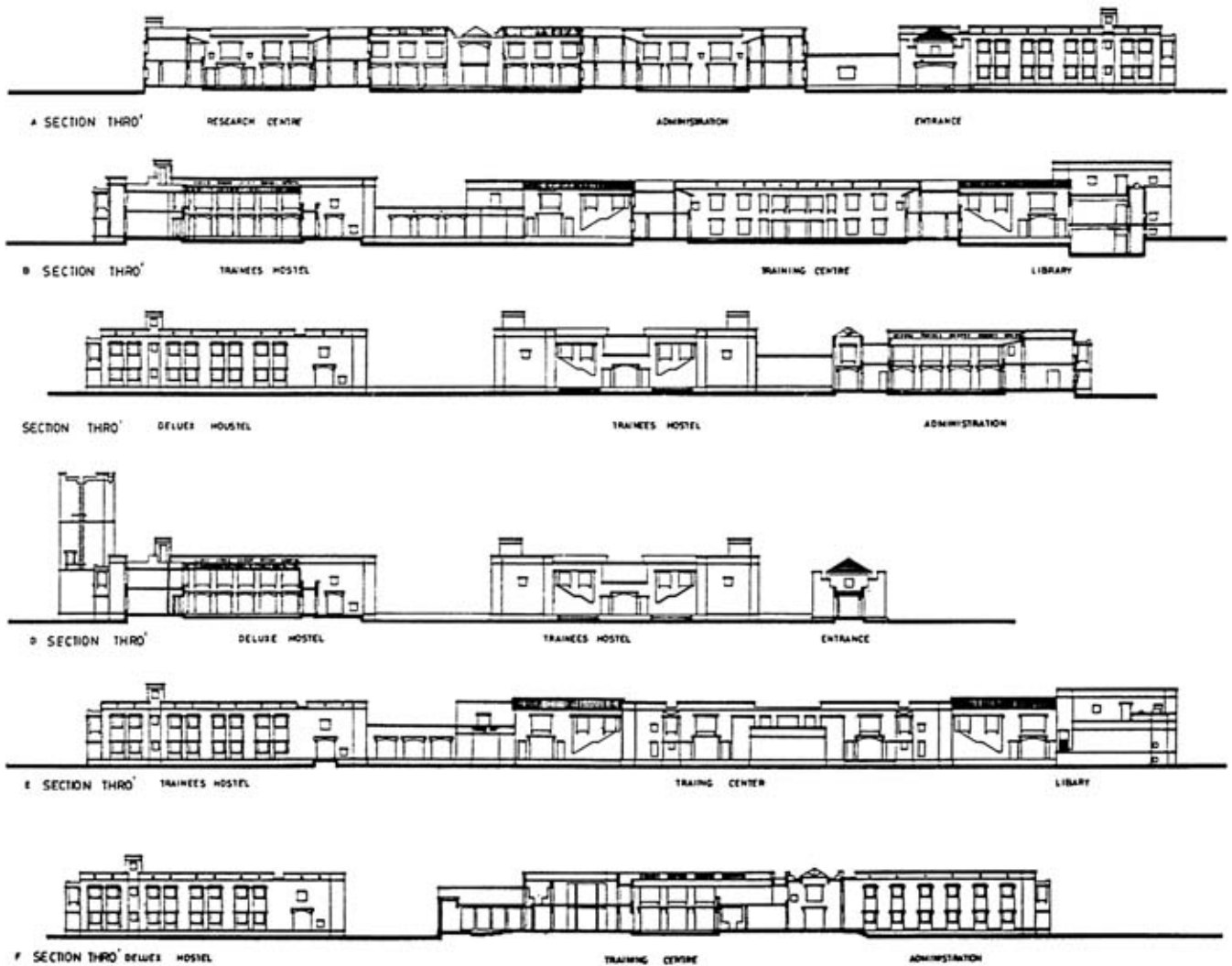
MESSRS HASMUKH C. PATEL, Architect & Planners,
'Paritosh', Usmanpura, Ahmedabad 380 013.



3

1240. IND

MESSRS HASMUKH C. PATEL, Architect & Planners,
'Paritosh', Usmanpura, Ahmedabad 380 013.



ENTREPRENEURSHIP DEVELOPMENT INSTITUTE CAMPUS AT AHMEDABAD

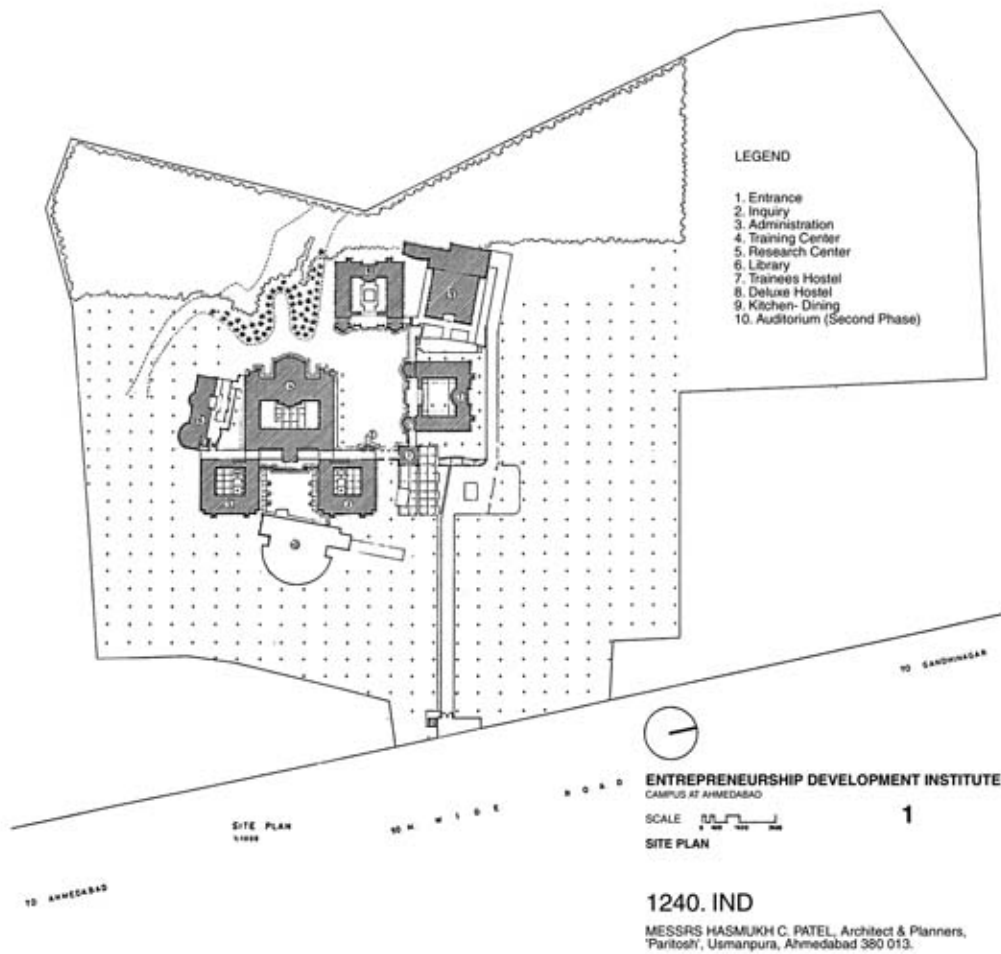
SCALE 0 600 1200 2400

SECTION & ELEVATIONS

4

1240. IND

MESSRS HASMUKH C. PATEL, Architect & Planners,
'Paritosh', Usmanpura, Ahmedabad 380 013.



Entrepreneurship Development Institute of India
Ahmedabad, India



Acc No: S055100
VM Title:
Date: 01.08.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S055125
VM Title:
Date: 01.08.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S055126
VM Title:
Date: 01.08.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S055130
VM Title:
Date: 01.08.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S055135
VM Title:
Date: 01.08.1991
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S055861
VM Title:
Date: 29.04.1991
Photographer: Courtesy of Nominator
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India

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Acc No: S067265
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067277
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067278
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067285
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067299
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067304
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
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Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India

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Acc No: S067308
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067309
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067315
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067316
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067317
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067319
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067321
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
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Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067352
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067362
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067378
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067383
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



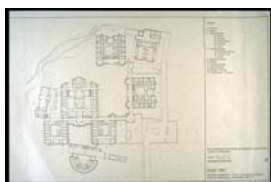
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VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
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Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



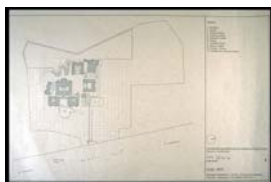
Acc No: S067422
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
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Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S067425
VM Title:
Date: 15.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S077668
VM Title:
Date: 15.06.1992
Photographer: AKAA
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S077670
VM Title:
Date: 15.06.1992
Photographer: AKAA
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S079347
VM Title:
Date: 23.06.1992
Photographer: Courtesy of AKBAR Jamel
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S079348
VM Title:
Date: 23.06.1992
Photographer: Courtesy of AKBAR Jamel
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S079424
VM Title:
Date: 23.06.1992
Photographer: Courtesy of AKBAR Jamel
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S079425
VM Title:
Date: 23.06.1992
Photographer: Courtesy of AKBAR Jamel
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S079426
VM Title:
Date: 23.06.1992
Photographer: Courtesy of AKBAR Jamel
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S104577
VM Title:
Date:
Photographer: Courtesy of Architect
Copyright: Y
Technical Infos:
Notes:
Location: C1
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S110705
VM Title:
Date: 15.08.1996
Photographer: BRADLEY Tim
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S110715
VM Title:
Date: 15.08.1996
Photographer: BRADLEY Tim
Copyright: Y
Technical Infos:
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Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131631
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131632
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131633
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131634
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131635
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131636
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131637
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
VM Link: 1240 Entrepreneurship Development Institute of India



Acc No: S131638
VM Title:
Date: 01.04.1992
Photographer: RAHMAN Ram
Copyright: Y
Technical Infos:
Notes:
Location:
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1	D001637				01.08.1991	Courtesy of Architect	A3	Y
2	D001638				01.08.1991	Courtesy of Architect	A3	Y
3	D001639				01.08.1991	Courtesy of Architect	A3	Y
4	D001640				01.08.1991	Courtesy of Architect	A3	Y
5	D001641				01.08.1991	Courtesy of Architect	A3	Y
6	D001642				01.08.1991	Courtesy of Architect	A3	Y
7	D001643				01.08.1991	Courtesy of Architect	A3	Y
8	D001644				01.08.1991	Courtesy of Architect	A3	Y
9	D001645				01.08.1991	Courtesy of Architect	A3	Y
10	D001646				01.08.1991	Courtesy of Architect	A3	Y
11	D003590					Courtesy of Architect	55x75	Y
12	D003591					Courtesy of Architect	55x75	Y
13	D003592					Courtesy of Architect	55x75	Y
14	D003593					Courtesy of Architect	55x75	Y
15	D003594					Courtesy of Architect	55x75	Y
16	D003595					Courtesy of Architect	55x75	Y
17	D003596					Courtesy of Architect	55x75	Y
18	D003597					Courtesy of Architect	55x75	Y
19	D003598					Courtesy of Architect	55x75	Y
20	D003599					Courtesy of Architect	55x75	Y
21	D003600					Courtesy of Architect	55x75	Y
22	D003601					Courtesy of Architect	55x75	Y
23	D003602					Courtesy of Architect	55x75	Y
24	D003603					Courtesy of Architect	55x75	Y
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26	D003605					Courtesy of Architect	55x75	Y
27	D003606					Courtesy of Architect	55x75	Y
28	D003607					Courtesy of Architect	55x75	Y
29	D003608					Courtesy of Architect	55x75	Y
30	D003609					Courtesy of Architect	55x75	Y
31	D003610					Courtesy of Architect	55x75	Y
32	D003611					Courtesy of Architect	55x75	Y
33	D003612					Courtesy of Architect	55x75	Y
34	D003613					Courtesy of Architect	55x75	Y
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42	D003621					Courtesy of Architect	55x75	Y
43	D003622					Courtesy of Architect	55x75	Y
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45	D003624					Courtesy of Architect	55x75	Y
46	D003625					Courtesy of Architect	55x75	Y
47	D003626					Courtesy of Architect	55x75	Y
48	D003627					Courtesy of Architect	55x75	Y
49	D003628					Courtesy of Architect	55x75	Y
50	D003629					Courtesy of Architect	55x75	Y

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52	D003631					Courtesy of Architect	55x75	Y
53	D003632					Courtesy of Architect	55x75	Y
54	D003633					Courtesy of Architect	55x75	Y
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56	D003635					Courtesy of Architect	55x75	Y
57	D003636					Courtesy of Architect	55x75	Y
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94	D003673					Courtesy of Architect	55x75	Y
95	D003674					Courtesy of Architect	55x75	Y
96	D003675					Courtesy of Architect	55x75	Y
97	D003676					Courtesy of Architect	55x75	Y
98	D003677					Courtesy of Architect	55x75	Y
99	D003678					Courtesy of Architect	55x75	Y
100	D003679					Courtesy of Architect	55x75	Y

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No	VM Num	CD Id	IMG Ord	VM Title	Date	Photographer	Format	Copyright
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102	D003681					Courtesy of Architect	55x75	Y
103	D003682					Courtesy of Architect	55x75	Y
104	D003683					Courtesy of Architect	55x75	Y
105	D003684					Courtesy of Architect	55x75	Y
106	D003685					Courtesy of Architect	55x75	Y
107	D003686					Courtesy of Architect	55x75	Y
108	D003687					Courtesy of Architect	55X75	Y
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120	D003699					Courtesy of Architect	55X75	Y
121	D003700					Courtesy of Architect	55X75	Y
122	R003517				01.08.1991	Courtesy of Architect	18x24	Y
123	R003518				01.08.1991	Courtesy of Architect	18x24	Y
124	R003519				01.08.1991	Courtesy of Architect	18x24	Y
125	R003520				01.08.1991	Courtesy of Architect	18x24	Y
126	R003521				01.08.1991	Courtesy of Architect	18x24	Y
127	R003522				01.08.1991	Courtesy of Architect	18x24	Y
128	R003523				01.08.1991	Courtesy of Architect	18x24	Y
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130	R003525				01.08.1991	Courtesy of Architect	18x24	Y
131	R003526				01.08.1991	Courtesy of Architect	18x24	Y
132	R003527				01.08.1991	Courtesy of Architect	18x24	Y
133	R003528				01.08.1991	Courtesy of Architect	18x24	Y
134	R003529				01.08.1991	Courtesy of Architect	18x24	Y
135	R003661				29.04.1991	Courtesy of Nominator	16x25	Y
136	R003662				29.04.1991	Courtesy of Nominator	16x25	Y
137	S055097				01.08.1991	Courtesy of Architect	A3	Y
138	S055098				01.08.1991	Courtesy of Architect	A3	Y
139	S055099				01.08.1991	Courtesy of Architect	A3	Y
140	S055100	CD00014	IMG0008		01.08.1991	Courtesy of Architect	A3	Y
141	S055101				01.08.1991	Courtesy of Architect	A3	Y
142	S055102				01.08.1991	Courtesy of Architect	A3	Y
143	S055103				01.08.1991	Courtesy of Architect	A3	Y
144	S055104				01.08.1991	Courtesy of Architect	A3	Y
145	S055105				01.08.1991	Courtesy of Architect	A3	Y
146	S055106				01.08.1991	Courtesy of Architect	A3	Y
147	S055107				01.08.1991	Courtesy of Architect	A3	Y
148	S055108				01.08.1991	Courtesy of Architect	A3	Y
149	S055109				01.08.1991	Courtesy of Architect	A3	Y
150	S055110				01.08.1991	Courtesy of Architect	A3	Y

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<u>No</u>	<u>VM Num</u>	<u>CD Id</u>	<u>IMG Ord</u>	<u>VM Title</u>	<u>Date</u>	<u>Photographer</u>	<u>Format</u>	<u>Copyright</u>
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152	S055112				01.08.1991	Courtesy of Architect	A3	Y
153	S055113				01.08.1991	Courtesy of Architect	A3	Y
154	S055114				01.08.1991	Courtesy of Architect	A3	Y
155	S055115				01.08.1991	Courtesy of Architect	A3	Y
156	S055116				01.08.1991	Courtesy of Architect	A3	Y
157	S055117				01.08.1991	Courtesy of Architect	A3	Y
158	S055118				01.08.1991	Courtesy of Architect	A3	Y
159	S055119				01.08.1991	Courtesy of Architect	A3	Y
160	S055120				01.08.1991	Courtesy of Architect	A3	Y
161	S055121				01.08.1991	Courtesy of Architect	A3	Y
162	S055122				01.08.1991	Courtesy of Architect	A3	Y
163	S055123				01.08.1991	Courtesy of Architect	A3	Y
164	S055124				01.08.1991	Courtesy of Architect	A3	Y
165	S055125	CD00014	IMG0026		01.08.1991	Courtesy of Architect	A3	Y
166	S055126	CD00014	IMG0029		01.08.1991	Courtesy of Architect	A3	Y
167	S055127				01.08.1991	Courtesy of Architect	A3	Y
168	S055128				01.08.1991	Courtesy of Architect	A3	Y
169	S055129				01.08.1991	Courtesy of Architect	A3	Y
170	S055130	CD00014	IMG0041		01.08.1991	Courtesy of Architect	A3	Y
171	S055131				01.08.1991	Courtesy of Architect	A3	Y
172	S055132				01.08.1991	Courtesy of Architect	A3	Y
173	S055133				01.08.1991	Courtesy of Architect	A3	Y
174	S055134				01.08.1991	Courtesy of Architect	A3	Y
175	S055135	CD00014	IMG0027		01.08.1991	Courtesy of Architect	A3	Y
176	S055136				01.08.1991	Courtesy of Architect	A3	Y
177	S055137				01.08.1991	Courtesy of Architect	A3	Y
178	S055138				01.08.1991	Courtesy of Architect	A3	Y
179	S055847				29.04.1991	Courtesy of Nominator	24x36	Y
180	S055848				29.04.1991	Courtesy of Nominator	24x36	Y
181	S055849				29.04.1991	Courtesy of Nominator	24x36	Y
182	S055850				29.04.1991	Courtesy of Nominator	24x36	Y
183	S055851				29.04.1991	Courtesy of Nominator	24x36	Y
184	S055852				29.04.1991	Courtesy of Nominator	24x36	Y
185	S055853				29.04.1991	Courtesy of Nominator	24x36	Y
186	S055854				29.04.1991	Courtesy of Nominator	24x36	Y
187	S055855				29.04.1991	Courtesy of Nominator	24x36	Y
188	S055856				29.04.1991	Courtesy of Nominator	24x36	Y
189	S055857				29.04.1991	Courtesy of Nominator	24x36	Y
190	S055858				29.04.1991	Courtesy of Nominator	24x36	Y
191	S055859				29.04.1991	Courtesy of Nominator	24x36	Y
192	S055860				29.04.1991	Courtesy of Nominator	24x36	Y
193	S055861	CD00014	IMG0040		29.04.1991	Courtesy of Nominator	24x36	Y
194	S055862				29.04.1991	Courtesy of Nominator	24x36	Y
195	S055863				29.04.1991	Courtesy of Nominator	24x36	Y
196	S055864				29.04.1991	Courtesy of Nominator	24x36	Y
197	S055865				29.04.1991	Courtesy of Nominator	24x36	Y
198	S055866				29.04.1991	Courtesy of Nominator	24x36	Y
199	S065116				22.04.1992	RAHMAN Ram	24x36	Y
200	S065117				22.04.1992	RAHMAN Ram	24x36	Y

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202	S065119				22.04.1992	RAHMAN Ram	24x36	Y
203	S065120				22.04.1992	RAHMAN Ram	24x36	Y
204	S065121				22.04.1992	RAHMAN Ram	24x36	Y
205	S065122				22.04.1992	RAHMAN Ram	24x36	Y
206	S065123				22.04.1992	RAHMAN Ram	24x36	Y
207	S065124				22.04.1992	RAHMAN Ram	24x36	Y
208	S065125				22.04.1992	RAHMAN Ram	24x36	Y
209	S065126				22.04.1992	RAHMAN Ram	24x36	Y
210	S065127				22.04.1992	RAHMAN Ram	24x36	Y
211	S065128				22.04.1992	RAHMAN Ram	24x36	Y
212	S065129				22.04.1992	RAHMAN Ram	24x36	Y
213	S065130				22.04.1992	RAHMAN Ram	24x36	Y
214	S065131				22.04.1992	RAHMAN Ram	24x36	Y
215	S065132				22.04.1992	RAHMAN Ram	24x36	Y
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217	S065134				22.04.1992	RAHMAN Ram	24x36	Y
218	S065135				22.04.1992	RAHMAN Ram	24x36	Y
219	S065136				22.04.1992	RAHMAN Ram	24x36	Y
220	S065137				22.04.1992	RAHMAN Ram	24x36	Y
221	S065138				22.04.1992	RAHMAN Ram	24x36	Y
222	S065139				22.04.1992	RAHMAN Ram	24x36	Y
223	S065140				22.04.1992	RAHMAN Ram	24x36	Y
224	S065141				22.04.1992	RAHMAN Ram	24x36	Y
225	S065142				22.04.1992	RAHMAN Ram	24x36	Y
226	S065143				22.04.1992	RAHMAN Ram	24x36	Y
227	S065144				22.04.1992	RAHMAN Ram	24x36	Y
228	S065145				22.04.1992	RAHMAN Ram	24x36	Y
229	S065146				22.04.1992	RAHMAN Ram	24x36	Y
230	S065147				22.04.1992	RAHMAN Ram	24x36	Y
231	S065148				22.04.1992	RAHMAN Ram	24x36	Y
232	S065149				22.04.1992	RAHMAN Ram	24x36	Y
233	S065150				22.04.1992	RAHMAN Ram	24x36	Y
234	S065151				22.04.1992	RAHMAN Ram	24x36	Y
235	S065152				22.04.1992	RAHMAN Ram	24x36	Y
236	S065153				22.04.1992	RAHMAN Ram	24x36	Y
237	S065154				22.04.1992	RAHMAN Ram	24x36	Y
238	S065155				22.04.1992	RAHMAN Ram	24x36	Y
239	S065156				22.04.1992	RAHMAN Ram	24x36	Y
240	S065157				22.04.1992	RAHMAN Ram	24x36	Y
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242	S065159				22.04.1992	RAHMAN Ram	24x36	Y
243	S065160				22.04.1992	RAHMAN Ram	24x36	Y
244	S065161				22.04.1992	RAHMAN Ram	24x36	Y
245	S065162				22.04.1992	RAHMAN Ram	24x36	Y
246	S065163				22.04.1992	RAHMAN Ram	24x36	Y
247	S065164				22.04.1992	RAHMAN Ram	24x36	Y
248	S065165				22.04.1992	RAHMAN Ram	24x36	Y
249	S065166				22.04.1992	RAHMAN Ram	24x36	Y
250	S065167				22.04.1992	RAHMAN Ram	24x36	Y

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251	S065168				22.04.1992	RAHMAN Ram	24x36	Y
252	S065169				22.04.1992	RAHMAN Ram	24x36	Y
253	S065170				22.04.1992	RAHMAN Ram	24x36	Y
254	S065171				22.04.1992	RAHMAN Ram	24x36	Y
255	S065172				22.04.1992	RAHMAN Ram	24x36	Y
256	S065173				22.04.1992	RAHMAN Ram	24x36	Y
257	S065174				22.04.1992	RAHMAN Ram	24x36	Y
258	S065175				22.04.1992	RAHMAN Ram	24x36	Y
259	S065176				22.04.1992	RAHMAN Ram	24x36	Y
260	S065177				22.04.1992	RAHMAN Ram	24x36	Y
261	S065178				22.04.1992	RAHMAN Ram	24x36	Y
262	S065179				22.04.1992	RAHMAN Ram	24x36	Y
263	S065180				22.04.1992	RAHMAN Ram	24x36	Y
264	S065181				22.04.1992	RAHMAN Ram	24x36	Y
265	S065182				22.04.1992	RAHMAN Ram	24x36	Y
266	S065183				22.04.1992	RAHMAN Ram	24x36	Y
267	S065184				22.04.1992	RAHMAN Ram	24x36	Y
268	S065185				22.04.1992	RAHMAN Ram	24x36	Y
269	S065186				22.04.1992	RAHMAN Ram	24x36	Y
270	S065187				22.04.1992	RAHMAN Ram	24x36	Y
271	S065188				22.04.1992	RAHMAN Ram	24x36	Y
272	S065189				22.04.1992	RAHMAN Ram	24x36	Y
273	S065190				22.04.1992	RAHMAN Ram	24x36	Y
274	S065191				22.04.1992	RAHMAN Ram	24x36	Y
275	S065192				22.04.1992	RAHMAN Ram	24x36	Y
276	S065193				22.04.1992	RAHMAN Ram	24x36	Y
277	S065194				22.04.1992	RAHMAN Ram	24x36	Y
278	S065195				22.04.1992	RAHMAN Ram	24x36	Y
279	S065196				22.04.1992	RAHMAN Ram	24x36	Y
280	S065197				22.04.1992	RAHMAN Ram	24x36	Y
281	S065198				22.04.1992	RAHMAN Ram	24x36	Y
282	S065199				22.04.1992	RAHMAN Ram	24x36	Y
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284	S065201				22.04.1992	RAHMAN Ram	24x36	Y
285	S065202				22.04.1992	RAHMAN Ram	24x36	Y
286	S065203				22.04.1992	RAHMAN Ram	24x36	Y
287	S065204				22.04.1992	RAHMAN Ram	24x36	Y
288	S065205				22.04.1992	RAHMAN Ram	24x36	Y
289	S065206				22.04.1992	RAHMAN Ram	24x36	Y
290	S065207				22.04.1992	RAHMAN Ram	24x36	Y
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294	S067267				15.04.1992	RAHMAN Ram	24x36	Y
295	S067268				15.04.1992	RAHMAN Ram	24x36	Y
296	S067269				15.04.1992	RAHMAN Ram	24x36	Y
297	S067270				15.04.1992	RAHMAN Ram	24x36	Y
298	S067271				15.04.1992	RAHMAN Ram	24x36	Y
299	S067272				15.04.1992	RAHMAN Ram	24x36	Y
300	S067273				15.04.1992	RAHMAN Ram	24x36	Y

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301	S067274				15.04.1992	RAHMAN Ram	24x36	Y
302	S067275				15.04.1992	RAHMAN Ram	24x36	Y
303	S067276				15.04.1992	RAHMAN Ram	24x36	Y
304	S067277	CD00014	IMG0010		15.04.1992	RAHMAN Ram	24x36	Y
305	S067278	CD00014	IMG0009		15.04.1992	RAHMAN Ram	24x36	Y
306	S067279				15.04.1992	RAHMAN Ram	24x36	Y
307	S067280				15.04.1992	RAHMAN Ram	24x36	Y
308	S067281				15.04.1992	RAHMAN Ram	24x36	Y
309	S067282				15.04.1992	RAHMAN Ram	24x36	Y
310	S067283				15.04.1992	RAHMAN Ram	24x36	Y
311	S067284				15.04.1992	RAHMAN Ram	24x36	Y
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313	S067286				15.04.1992	RAHMAN Ram	24x36	Y
314	S067287				15.04.1992	RAHMAN Ram	24x36	Y
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325	S067298				15.04.1992	RAHMAN Ram	24x36	Y
326	S067299	CD00014	IMG0042		15.04.1992	RAHMAN Ram	24x36	Y
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328	S067301				15.04.1992	RAHMAN Ram	24x36	Y
329	S067302				15.04.1992	RAHMAN Ram	24x36	Y
330	S067303				15.04.1992	RAHMAN Ram	24x36	Y
331	S067304	CD00014	IMG0007		15.04.1992	RAHMAN Ram	24x36	Y
332	S067305				15.04.1992	RAHMAN Ram	24x36	Y
333	S067306				15.04.1992	RAHMAN Ram	24x36	Y
334	S067307				15.04.1992	RAHMAN Ram	24x36	Y
335	S067308	CD00014	IMG0043		15.04.1992	RAHMAN Ram	24x36	Y
336	S067309	CD00014	IMG0031		15.04.1992	RAHMAN Ram	24x36	Y
337	S067310				15.04.1992	RAHMAN Ram	24x36	Y
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341	S067314				15.04.1992	RAHMAN Ram	24x36	Y
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343	S067316	CD00014	IMG0028		15.04.1992	RAHMAN Ram	24x36	Y
344	S067317	CD00014	IMG0023		15.04.1992	RAHMAN Ram	24x36	Y
345	S067318				15.04.1992	RAHMAN Ram	24x36	Y
346	S067319	CD00014	IMG0025		15.04.1992	RAHMAN Ram	24x36	Y
347	S067320				15.04.1992	RAHMAN Ram	24x36	Y
348	S067321	CD00014	IMG0024		15.04.1992	RAHMAN Ram	24x36	Y
349	S067322				15.04.1992	RAHMAN Ram	24x36	Y
350	S067323				15.04.1992	RAHMAN Ram	24x36	Y

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351	S067324				15.04.1992	RAHMAN Ram	24x36	Y
352	S067325				15.04.1992	RAHMAN Ram	24x36	Y
353	S067326				15.04.1992	RAHMAN Ram	24x36	Y
354	S067327				15.04.1992	RAHMAN Ram	24x36	Y
355	S067328				15.04.1992	RAHMAN Ram	24x36	Y
356	S067329				15.04.1992	RAHMAN Ram	24x36	Y
357	S067330				15.04.1992	RAHMAN Ram	24x36	Y
358	S067331				15.04.1992	RAHMAN Ram	24x36	Y
359	S067332				15.04.1992	RAHMAN Ram	24x36	Y
360	S067333				15.04.1992	RAHMAN Ram	24x36	Y
361	S067334				15.04.1992	RAHMAN Ram	24x36	Y
362	S067335				15.04.1992	RAHMAN Ram	24x36	Y
363	S067336				15.04.1992	RAHMAN Ram	24x36	Y
364	S067337				15.04.1992	RAHMAN Ram	24x36	Y
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367	S067340				15.04.1992	RAHMAN Ram	24x36	Y
368	S067341				15.04.1992	RAHMAN Ram	24x36	Y
369	S067342				15.04.1992	RAHMAN Ram	24x36	Y
370	S067343				15.04.1992	RAHMAN Ram	24x36	Y
371	S067344				15.04.1992	RAHMAN Ram	24x36	Y
372	S067345				15.04.1992	RAHMAN Ram	24x36	Y
373	S067346				15.04.1992	RAHMAN Ram	24x36	Y
374	S067347				15.04.1992	RAHMAN Ram	24x36	Y
375	S067348				15.04.1992	RAHMAN Ram	24x36	Y
376	S067349				15.04.1992	RAHMAN Ram	24x36	Y
377	S067350				15.04.1992	RAHMAN Ram	24x36	Y
378	S067351				15.04.1992	RAHMAN Ram	24x36	Y
379	S067352	CD00014	IMG0013		15.04.1992	RAHMAN Ram	24x36	Y
380	S067353				15.04.1992	RAHMAN Ram	24x36	Y
381	S067354				15.04.1992	RAHMAN Ram	24x36	Y
382	S067355				15.04.1992	RAHMAN Ram	24x36	Y
383	S067356				15.04.1992	RAHMAN Ram	24x36	Y
384	S067357				15.04.1992	RAHMAN Ram	24x36	Y
385	S067358				15.04.1992	RAHMAN Ram	24x36	Y
386	S067359				15.04.1992	RAHMAN Ram	24x36	Y
387	S067360				15.04.1992	RAHMAN Ram	24x36	Y
388	S067361				15.04.1992	RAHMAN Ram	24x36	Y
389	S067362	CD00014	IMG0012		15.04.1992	RAHMAN Ram	24x36	Y
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393	S067366				15.04.1992	RAHMAN Ram	24x36	Y
394	S067367				15.04.1992	RAHMAN Ram	24x36	Y
395	S067368				15.04.1992	RAHMAN Ram	24x36	Y
396	S067369				15.04.1992	RAHMAN Ram	24x36	Y
397	S067370				15.04.1992	RAHMAN Ram	24x36	Y
398	S067371				15.04.1992	RAHMAN Ram	24x36	Y
399	S067372				15.04.1992	RAHMAN Ram	24x36	Y
400	S067373				15.04.1992	RAHMAN Ram	24x36	Y

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401	S067374				15.04.1992	RAHMAN Ram	24x36	Y
402	S067375				15.04.1992	RAHMAN Ram	24x36	Y
403	S067376				15.04.1992	RAHMAN Ram	24x36	Y
404	S067377				15.04.1992	RAHMAN Ram	24x36	Y
405	S067378	CD00014	IMG0014		15.04.1992	RAHMAN Ram	24x36	Y
406	S067379				15.04.1992	RAHMAN Ram	24x36	Y
407	S067380				15.04.1992	RAHMAN Ram	24x36	Y
408	S067381				15.04.1992	RAHMAN Ram	24x36	Y
409	S067382				15.04.1992	RAHMAN Ram	24x36	Y
410	S067383	CD00014	IMG0015		15.04.1992	RAHMAN Ram	24x36	Y
411	S067384				15.04.1992	RAHMAN Ram	24x36	Y
412	S067385				15.04.1992	RAHMAN Ram	24x36	Y
413	S067386				15.04.1992	RAHMAN Ram	24x36	Y
414	S067387				15.04.1992	RAHMAN Ram	24x36	Y
415	S067388				15.04.1992	RAHMAN Ram	24x36	Y
416	S067389				15.04.1992	RAHMAN Ram	24x36	Y
417	S067390				15.04.1992	RAHMAN Ram	24x36	Y
418	S067391				15.04.1992	RAHMAN Ram	24x36	Y
419	S067392				15.04.1992	RAHMAN Ram	24x36	Y
420	S067393				15.04.1992	RAHMAN Ram	24x36	Y
421	S067394				15.04.1992	RAHMAN Ram	24x36	Y
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423	S067396				15.04.1992	RAHMAN Ram	24x36	Y
424	S067397				15.04.1992	RAHMAN Ram	24x36	Y
425	S067398	CD00014	IMG0016		15.04.1992	RAHMAN Ram	24x36	Y
426	S067399				15.04.1992	RAHMAN Ram	24x36	Y
427	S067400				15.04.1992	RAHMAN Ram	24x36	Y
428	S067401				15.04.1992	RAHMAN Ram	24x36	Y
429	S067402				15.04.1992	RAHMAN Ram	24x36	Y
430	S067403				15.04.1992	RAHMAN Ram	24x36	Y
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433	S067406				15.04.1992	RAHMAN Ram	24x36	Y
434	S067407				15.04.1992	RAHMAN Ram	24x36	Y
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436	S067409				15.04.1992	RAHMAN Ram	24x36	Y
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445	S067418				15.04.1992	RAHMAN Ram	24x36	Y
446	S067419				15.04.1992	RAHMAN Ram	24x36	Y
447	S067420				15.04.1992	RAHMAN Ram	24x36	Y
448	S067421				15.04.1992	RAHMAN Ram	24x36	Y
449	S067422	CD00014	IMG0017		15.04.1992	RAHMAN Ram	24x36	Y
450	S067423				15.04.1992	RAHMAN Ram	24x36	Y

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452	S067425	CD00014	IMG0018		15.04.1992	RAHMAN Ram	24x36	Y
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454	S067427				15.04.1992	RAHMAN Ram	24x36	Y
455	S067428				15.04.1992	RAHMAN Ram	24x36	Y
456	S067429				15.04.1992	RAHMAN Ram	24x36	Y
457	S067430				15.04.1992	RAHMAN Ram	24x36	Y
458	S067431				15.04.1992	RAHMAN Ram	24x36	Y
459	S067432				15.04.1992	RAHMAN Ram	24x36	Y
460	S067433				15.04.1992	RAHMAN Ram	24x36	Y
461	S067434				15.04.1992	RAHMAN Ram	6x7	Y
462	S067435				15.04.1992	RAHMAN Ram	6x7	Y
463	S067436				15.04.1992	RAHMAN Ram	6x7	Y
464	S067437				15.04.1992	RAHMAN Ram	6x7	Y
465	S067438				15.04.1992	RAHMAN Ram	6x7	Y
466	S067439				15.04.1992	RAHMAN Ram	6x7	Y
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487	S067460				15.04.1992	RAHMAN Ram	6x7	Y
488	S067461				15.04.1992	RAHMAN Ram	6x7	Y
489	S067462				15.04.1992	RAHMAN Ram	6x7	Y
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495	S068693				15.04.1991	RAHMAN Ram	24x36	Y
496	S068694				15.04.1991	RAHMAN Ram	24x36	Y
497	S068695				15.04.1991	RAHMAN Ram	24x36	Y
498	S068696				15.04.1991	RAHMAN Ram	24x36	Y
499	S068697				15.04.1991	RAHMAN Ram	24x36	Y
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501	S077667				15.06.1992	AKAA	24x36	Y
502	S077668	CD00014	IMG0002		15.06.1992	AKAA	24x36	Y
503	S077669				15.06.1992	AKAA	24x36	Y
504	S077670	CD00014	IMG0001		15.06.1992	AKAA	24x36	Y
505	S077671				15.06.1992	AKAA	24x36	Y
506	S079314				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
507	S079315				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
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533	S079341				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
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535	S079343				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
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550	S079358				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y

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551	S079419				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
552	S079420				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
553	S079421				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
554	S079422				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
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556	S079424	CD00014	IMG0005		23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
557	S079425	CD00014	IMG0003		23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
558	S079426	CD00014	IMG0004		23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
559	S079427				23.06.1992	Courtesy of AKBAR Jamel	24x36	Y
560	S104574					Courtesy of Architect	24x36	Y
561	S104575					Courtesy of Architect	24x36	Y
562	S104576					Courtesy of Architect	24x36	Y
563	S104577	CD00014	IMG0006			Courtesy of Architect	24x36	Y
564	S104578					Courtesy of Architect	24x36	Y
565	S104579					Courtesy of Architect	24x36	Y
566	S110681				15.08.1996	FITZHUGH Justin	24x36	Y
567	S110682				15.08.1996	FITZHUGH Justin	24x36	Y
568	S110683				15.08.1996	FITZHUGH Justin	24x36	Y
569	S110684				15.08.1996	FITZHUGH Justin	24x36	Y
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579	S110694				15.08.1996	FITZHUGH Justin	24x36	Y
580	S110695				15.08.1996	FITZHUGH Justin	24x36	Y
581	S110696				15.08.1996	FITZHUGH Justin	24x36	Y
582	S110697				15.08.1996	FITZHUGH Justin	24x36	Y
583	S110698				15.08.1996	FITZHUGH Justin	24x36	Y
584	S110699				15.08.1996	BRADLEY Tim	24x36	Y
585	S110700				15.08.1996	BRADLEY Tim	24x36	Y
586	S110701				15.08.1996	BRADLEY Tim	24x36	Y
587	S110702				15.08.1996	BRADLEY Tim	24x36	Y
588	S110703				15.08.1996	BRADLEY Tim	24x36	Y
589	S110704				15.08.1996	BRADLEY Tim	24x36	Y
590	S110705	CD00014	IMG0044		15.08.1996	BRADLEY Tim	24x36	Y
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592	S110707				15.08.1996	BRADLEY Tim	24x36	Y
593	S110708				15.08.1996	BRADLEY Tim	24x36	Y
594	S110709				15.08.1996	BRADLEY Tim	24x36	Y
595	S110710				15.08.1996	BRADLEY Tim	24x36	Y
596	S110711				15.08.1996	BRADLEY Tim	24x36	Y
597	S110712				15.08.1996	BRADLEY Tim	24x36	Y
598	S110713				15.08.1996	BRADLEY Tim	24x36	Y
599	S110714				15.08.1996	BRADLEY Tim	24x36	Y
600	S110715	CD00014	IMG0030		15.08.1996	BRADLEY Tim	24x36	Y

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601	S131631	CD00014	IMG0032		01.04.1992	RAHMAN Ram	24x36	Y
602	S131632	CD00014	IMG0033		01.04.1992	RAHMAN Ram	24x36	Y
603	S131633	CD00014	IMG0034		01.04.1992	RAHMAN Ram	24x36	Y
604	S131634	CD00014	IMG0035		01.04.1992	RAHMAN Ram	24x36	Y
605	S131635	CD00014	IMG0036		01.04.1992	RAHMAN Ram	24x36	Y
606	S131636	CD00014	IMG0037		01.04.1992	RAHMAN Ram	24x36	Y
607	S131637	CD00014	IMG0038		01.04.1992	RAHMAN Ram	24x36	Y
608	S131638	CD00014	IMG0039		01.04.1992	RAHMAN Ram	24x36	Y
609	S135823					RAHMAN Ram	6x8	Y
610	S135824					RAHMAN Ram	6x8	Y
611	S135825					RAHMAN Ram	6x8	Y
612	S135826					RAHMAN Ram	6x8	Y
613	S135827					RAHMAN Ram	6x8	Y
614	S135828					RAHMAN Ram	6x8	Y
615	S135829					RAHMAN Ram	6x8	Y
616	S135830					RAHMAN Ram	6x8	Y

VISUAL MATERIAL CONTENTS

Inventory by Photographer or Source \ Type \ Format \ Number Sequences
Inventory by Photographer or Source \ Type \ Format \ Quantity
Inventory by Type \ Format \ Quantity
Project Descriptors List
Inventory by Type \ Number Sequences \ Descriptors
Inventory by Descriptors \ Quantity

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Country : IND/India
City : Ah /Ahmedabad
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INVENTORY - NUMBER SEQUENCES

Photographer / Source	Type	Format	From	To	Total of
1 Courtesy of Architect	Drawing(s)	A3	D001637	D001646	10
	Print(s)	18x24	R003517	R003529	13
	Slide(s)	A3	S055097	S055138	42
2 Courtesy of Nominator	Print(s)	16x25	R003661	R003662	2
	Slide(s)	24x36	S055847	S055866	20

INVENTORY - SOURCE / FORMAT

Photographer / Source	Type	Format	Total of
1 Courtesy of Architect	Drawing(s)	A3	10
	Print(s)	18x24	13
	Slide(s)	A3	42
2 Courtesy of Nominator	Print(s)	16x25	2
	Slide(s)	24x36	20

INVENTORY - FORMAT

Type	Format	Total of
Drawing(s)	A3	10
	16x25	2
	18x24	13
Slide(s)	24x36	20
	A3	42

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04 Main corridor	14 First floor	24
05 The administration	15 Section	25
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09 Canteen facilities	19	29
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Descriptors are simple terms selected to identify and distinguish specific aspects of the particular project and which permit differentiation of project visual material.

Terms used have no particular hierarchy, nor are they based on any thesaurus or classification system.

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INVENTORY - NUMBER SEQUENCES / DESCRIPTORS

Drawing(s)		Descriptors
From	To	
D001637	D001637	Plan / Site
D001638	D001638	Plan / Location
D001639	D001639	Plan / Ground floor
D001640	D001640	Plan / First floor
D001641	D001641	Plan / Section / Elevation
D001642	D001642	Plan / Site
D001643	D001643	Plan / Location
D001644	D001644	Plan / Ground floor
D001645	D001645	Plan / First floor
D001646	D001646	Plan / Section / Elevation

Print(s)		Descriptors
From	To	
R003517	R003662	Exterior

Slide(s)		Descriptors
From	To	
S055097	S055100	Exterior / Entrance pavilion
S055101	S055104	Exterior / Main corridor
S055105	S055107	Exterior
S055108	S055111	Exterior / The administration
S055112	S055114	Exterior / The training court.
S055115	S055116	Exterior / The library court.
S055117	S055121	Exterior / Hostel 1 courtyard
S055122	S055122	Exterior

Continued

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INVENTORY - NUMBER SEQUENCES / DESCRIPTORS

Slide(s)

From	To	Descriptors
S055123	S055123	Exterior / Canteen facilities
S055124	S055126	Exterior / Main corridor
S055127	S055131	Interior
S055132	S055134	Exterior
S055135	S055135	Exterior / Hostel 1 courtyard
S055136	S055865	Exterior
S055866	S055866	Model

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INVENTORY - DESCRIPTIONS

Drawing(s) Description	Total of
Plan / Site	2
Plan / Location	2
Plan / Ground floor	2
Plan / First floor	2
Plan / Section / Elevation	2

Print(s) Description	Total of
Exterior	15

Slide(s) Description	Total of
Exterior	29
Exterior / Entrance pavilion	4
Exterior / Main corridor	7
Exterior / The administration	4
Exterior / The training courty.	3
Exterior / The library courty.	2
Exterior / Hostel 1 courtyard	6
Exterior / Canteen facilities	1
Interior	5
Model	1

End of inventory