



The Aga Khan Award for Architecture

32, chemin des Crêts, 1218 Grand-Saconnex, Geneva, Switzerland, Telephone (22) 98 90 70

1983 ARCHITECTS' RECORD**CONFIDENTIAL****I. IDENTIFICATION**

A. Projet Title

B. Postal Address " Maader " - Experimental Village
M'Sila , Algeria**II. PERSONS RESPONSIBLE**

(Please give name and address for each. If more than one, please state precise roles and relationships.)

A. Client/Owner Wilaya de M'Sila , Algeria

B. Architect/Planner " Groupe d'Etude de l'Habitat "
Diab HAMDI
Hany and Abdel Rahman el MINIAWY
H. el MISTIKAWI

C. Consultants (e.g. Economist, Sociologist, Demographer, Engineer)

" Groupe d'Etude de l'Habitat "

D. Contractor

" Syndicate of Boussaada "
" Syndicate of Sidi Amer "

(Both are local contractors)

E. Master Craftsman

(Please continue overleaf if necessary)

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III. USE

- A. Type(s) of Use An experimental village , a result of the agricultural revolution programme .
- B. User/Occupant
1. Occupation Nomadic societies in the process of sedentarisation .
2. Income Level Very low income level .
- C. Specify any change(s) between planned and actual use.

IV. PROJECT HISTORY

- A. Programme Development
1. Date of Commencement Early 1975
2. Date of Completion End 1975
- B. Design
1. Date of Commencement Early 1976
2. Date of Completion End 1976
- C. Construction
1. Date of Commencement End 1976
2. Date of Completion End 1980
- D. Date of Project Occupancy End 1980

V. PROJECT ECONOMICS

(For Costs, please give amounts and currencies. Specify their date(s) of validity)

- A. Total Initial Budget 35,000 Algerian Dinars per each of the
- B. Total Actual Costs 120 houses ; total cost of 42 million
Algerian Dinars .
- C. Analysis of Costs
1. Land Donated
2. Materials 35%
3. Labour 65%
4. Professional Fees 15%
- D. Source(s) of Funds (indicate percentage)
1. Private _____
2. Public
- a. Local 85%
- b. National _____
- c. International _____

(Please continue overleaf if necessary)

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VI. CONSTRUCTION DETAILS

A. Site Area and Characteristics

Total site area = 70,000 square metres

Density = 120 houses per hectare

B. Total Floor Area of Individual Building(s)

Built surface (housing) = 18,000 square metres

Built surface (services) = 4,000 square metres

Total built surface = 22,000 square metres

C. Structural System (describe)

Bearing walls - stabilised mud bricks (dimension 20 x 20 x 40 cm)

Vault roofs - stabilised mud bricks (dimension 20 x 12 x 6 cm)

D. Materials (describe and indicate whether locally produced or imported)

1. Infill All bearing walls are built of mud bricks stabilised with 6% cement .

2. Rendering of Facades

Locally produced gypsum plaster .

3. Floors

Ceramic tiles , locally produced .

4. Ceilings

Stabilised mud brick vaults .

5. Others (interior and exterior)

All exterior walls gypsum plastered .

E. Site Utilities and Building Services (describe)

Services for all 120 houses are grouped in a central area , and comprise shops , baths , crafts stalls , mosque , public squares , etc .

F. Construction Technology

1. Describe the Basic Method of Construction

The entire village is constructed of stabilised mud bricks . A re-usable formwork was employed for the vaults .

2. Indicate which major building parts were fabricated on-site and which were fabricated elsewhere.

At first , the mud bricks were hand made . Later , a mechanical press was used .

G. Type of Labour Force (indicate percentage)

1. Skilled 10%

2. Unskilled 90%

H. Origin of Labour Force (indicate percentage)

1. Domestic 100%

2. Imported

(Please continue overleaf if necessary)

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VII. EVOLUTION OF DESIGN CONCEPTS

Please describe the genesis of the project, through programme, design and construction to final and present occupancy.

The three goals of the project were :

1. Maximum use and exploitation of local materials .
2. Use of local construction technology .
3. To provide an architecture that would be instrumental in the social development of the nomadic society as it begins sedentarisation .

We attempted to realise these goals in the following manner :

1. By adopting a successful system of stabilised mud brick construction , we hoped to demonstrate to the national authorities that local materials are still valid .
2. The use of bearing walls and vaults provided the opportunity to train 10 masons in this inexpensive building technique .
3. The basic unit of the village was 4 house grouped around a collective space . The kitchen of each house opened onto the common space , thus permitting the wives of each household to communicate with each other . In addition , each individual house is organised around a private courtyard , thus maintaining the closed character of traditional family life .

The composition of the 4-house units permitted the creation of urban spaces that could be used for commerce , meeting places , etc .

To ensure the rapid construction of the village , two local contractors were engaged .

The national authorities set up a field laboratory on site to ensure the structural qualities of the stabilised mud bricks .

VIII. SIGNIFICANCE OF PROJECT

In what way is this project important?

Please describe the aspect(s) of the project which you feel represent a particular achievement, for example, the technical, economic, or social achievement, or its response to culture or climate, etc.

" Maader " was the first shepherd's village to be constructed in southern Algeria as part of the government's programme of reform . Maader is the only village that was constructed with mud brick and using local labour . Maader is the only village that incorporates public , urban spaces and services with the housing .

The major significance of the project is the demonstration of the validity of the use of local materials and local labour to resolve the housing needs in non-industrialised countries .

In spite of our severe self-criticism of this now 7 year old village , we maintain particular interest in and respect for the village of Maader . We see the project as an alternative solution to the resolution of human problems , one that permits us to sever ourselves from our design boards and our dreams and firmly roots us in the soil of our needy country .

(Please continue overleaf if necessary)

IX. DOCUMENTATION

Please indicate the materials you enclose for project documentation:

_____ 10 Photographs; Color, and Black & White; 8" x 10" (18 x 24 cm).

_____ 20 Slides; Color, and Black & White; 35 mm.

_____ Drawings: Community plan, Site plan, Floor plans, Sections, Elevations.

_____ Project Brief/Programme

_____ Biographical Data

_____ Other (Please specify: _____).

Please note: The submission of this Record is a prerequisite to candidacy for the Award. All information contained and submitted with the Form will be kept strictly confidential until the announcement of the 1983 Award recipients. Subsequently, such information may be made available by the Aga Khan Award Foundation for scholarly purposes only. Nevertheless, persons wishing to publish, reproduce or reprint such information shall be required to secure prior permission in each instance.

Authorized Signature _____ Date _____
Telephone _____ Telex _____

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