



The Aga Khan Award for Architecture

**ARCHITECT'S RECORD**  
2004 AWARD CYCLE

**I. IDENTIFICATION**

Project Title : Rafsanjan Sport Complex  
 Street Address : Amir Kabir Square  
 City : Rafsanjan Country : Iran

**II. PERSONS RESPONSIBLE :**

**A. Architect/Planner**

Name : Naqsh,e,Jahan-Pars Consulting Engineers  
 Mailing address : No. 14 East Garmsar St. South Shiraz Ave. Mollasadra Ave.  
 City : Tehran Postal code : 1435883863  
 Country : Iran Telephone : + 9821 – 805 88 27 / 803 82 41  
 Facsimile : + 9821 – 803 13 99 E-mail : info@njp-arch.com  
 Principal Designer. S. Hadi MIRMIRAN Web site: www.njp-arch.com

**B. Client**

Name : Valiasr University - Rafsanjan  
 Mailing address : Valiasr University – Pajouhesh Sq. Moallem Ave.  
 City : Rafsanjan Postal code : 7713936417  
 Country : Iran Telephone : + 98391 – 522 74 16-8  
 Facsimile : + 98391 – 522 74 19 E-mail : \_\_\_\_\_

**C. Project Affiliates/Consultants**

Please list those involved in the project and indicate their roles and areas of responsibility (e.g. engineers, contractors, economists, master craftsmen, other architects, clients, etc.). Please cite addresses and telephone numbers separately.

Name Role

All names enclosed as attachments

Please see attachments No: 1

**III. TIMETABLE**

(Please specify year and month)

A. Commission	October – 1995				
B. Design		Commencement	October 1995	Completion	December 1996
C. Construction		Commencement	December 1997	Completion	December 1999
D. Occupancy	January 2001				

Remarks: Approval of Client for Second Phase is accepted as completion date

**IV. AREAS AND SURFACES**

(Please specify in square metres)

A. Total size area	7200 sqm.
B. Ground floor area	2300 sqm.
C. Total combined floor area	6250 sqm.
	(Including basement(s), ground floor(s) and all upper floors)

Remarks: \_\_\_\_\_

**V. ECONOMICS**

(Please specify the amounts in local currency and provide the equivalent in US dollars. Specify the date and the rate of exchange in US dollars at the time.)

	Amount in Local Currency	Amount in US dollars	Exchange rate	Date
A. Total initial budget	11,000,000,000	1,833,333	6,000	1995
B. Cost of land	1,440,000,000	240,000	6,000	1995
C. Analysis of actual costs				
1. Infrastructure	2,000,000,000	250,000	8,000	2001
2. Labour	4,600,000,000	575,000	8,000	2001
3. Materials	10,000,000,000	1,250,000	8,000	2001
4. Landscaping	1,200,000,000	150,000	8,000	2001
5. Professional fees	1,000,000,000	125,000	8,000	2001
6. Other	---	---	---	---
D. Total actual costs (Without land)	16,800,000,000	2,100,000	8,000	2001
E. Actual cost (Per square metre)	2,500,000	312/5	8,000	2001

Remarks: All local currencies have been calculated on Iranian Rials.  
Total cost of building has been calculated without infrastructure costs.  
Professional fees include space frame and Lexan installation cost.

## **VI. PROJECT DESCRIPTION**

Main spaces of the Rafsanjan Sport complex are as follows:

- 1- Entrance and lobbies
- 2- Open and covered swimming pools
- 3- Multi purpose halls

In entrance and lobbies there are special administrative and service areas. Swimming pool is consisting of two floors. In the ground floor there are swimming pool and Jacuzzi with glass roof and in basement floor toilets, locker rooms, towels, body building, dry and steam saunas are taking place. There is staircase that connects sport halls to the multi purpose hall with a mezzanine. There is also a top lighted hall in the half-cone with a separate entrance. Traditional Iranian private space architecture has been taken into consideration in combination of these three spaces.

## **VII. MATERIALS, STRUCTURE AND CONSTRUCTION**

It was very important to use local materials for this project. Mainly brick has been used in this building which is very common in the region. The structure is reinforced concrete, which is exposed from inside. In fact all of the interior elevations are made of brick and exposed concrete. In order to build energy efficient building, two layer exterior walls with insulation in between has been used. The roof structure of the swimming pool is made of space frame with unbroken glass types.

### VIII. PROJECT SIGNIFICANCE AND IMPACT

Rafsanjan Sport Complex is one of the three buildings of the Rafsanjan's Sport and Cultural Centre (RSCC).

The site of the project is an orthogonal trapezoid with an area of about 7500 sq m, located in the western zone of RSCC.

The building consists of two main parts, distributed in 3500 sq m of floor area:

A-The open air and covered swimming pools.

B-Gymnasiums (Squash and badminton salons along with a multi-purpose salon)

The architectural concept of the building originated from the typology of Kerman ancient icehouses, some of which still exist in this region. The masterly deployment of this concept has both generated the possibility of full functional efficiency and compatibility with today's construction methods and a modern program.

Similar to the spatial configuration of the traditional icehouses, the complex combines an opaque volume (the cone shaped dome) with transparent elements (the wall and the diagonal glazed roof which expands over the pools). The diagonal glazed roof refers to the shadow of the high wall on the ground. The entrance space ties up these two externally different elements to render a congruent internal effect. The high elongated wall that supports the roof of the swimming pool, not only acts as a complementary element to the geometrical configuration starting from the center of the cone, but also after shedding a transparent cover down to the ground, folds its arm in response to the curve of the cone.

The covered and open-air pools are aligned to define a vast surface of water, which is then divided by the transparent diagonal roof.

The significant point is that the spatial purity and wholeness of the internal space has been left undisturbed despite diversity of the required spaces such as dry and wet sauna, massage rooms, gym salon, dressing rooms, showers, services, storage, mechanical room, and water refinery located in the basement, buffet, shop, audience seats, coach room, offices on the ground floor, and a restaurant in the mezzanine looking over the pool.

The external simplicity of the building is also manifest all over the internal space with its highly diverse divisions.

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Name (please print) S. Hadi MIRMIRAN

Signature \_\_\_\_\_ Date December 7, 2003