Focus on Indian Stone: Indian heritage reflected in a modern context  
by Jennifer Adams  
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Traditional Indian limestone — as well as a variety of other stone — was chosen for the design of the Jain Center in Buena Park, CA, to create a cultural gathering place that honors the architecture of temples in India.

While the new Jain Center in Buena Park, CA, was intended to reflect the traditional design of Indian temples, the building materials also had to withstand the building codes and outdoor environment of Southern California. To meet all requirements, several varieties of stone from India were selected for the building’s design.

“This is a small community center with about 2,000 to 3,000 members,” said Manu Shah of MS International, Inc. (MSI) of Orange, CA, the stone supplier and installer for the project. “In India, all Jain Temple work is usually intricately carved in marble. Some temples are as old as 1,600 years old. Ranakpur and Abu Jain temples are known for the most intricate detailed carvings in marble. The most famous, the Taj Mahal, is the world’s biggest Mausoluem in marble with lots of inlay work with semi-precious stones.”

The recently built 45,000-square-foot structure that is now being used for services is actually going to be a recreational hall for community use, explained Shah. Construction on an adjoining temple will begin next year.

Shah, who is a member of the Jain Center, worked alongside the other members of the building committee, which included Shirish Desai, Sunil and Sonal Shah, Mahendra Desai and Shailesh Desai. And although the committee wanted to maintain traditional architectural elements such as stone carvings, they also knew that some compromises would need to be made to accommodate the center’s surroundings and the city’s zoning laws.

“We wanted to do as much carving as possible for the temple as well as keep the look that goes with the city,” he said, adding that limestone was chosen for the exterior of the building instead of marble. “With my experience, Southern California has a lot of traffic and [the center is on a] very busy street.” Shah and the building committee worried that
white marble would stain as a result of gas fumes and exhaust.

“The Taj Mahal is in white marble, but it doesn’t have 10 million automobiles running around it,” he said. “Instead of white marble, we chose Jaisalmir Yellow limestone, which is pretty hard.”

Shah went on to say that the limestone is named after the city of Jaisalmir in India, which is built of the material. “Some carvings are so intricate in that city,” he said. “We thought that [the stone] should reflect Jaisalmir.”

Approximately 4,000 square feet of Jaisalmir limestone was used at the height of up to 40 feet for the Jain Center’s exterior facade, with pieces ranging from 2 to 12 inches thick. “Most of the facade work is thick stone,” said Shah. “It required a T-9 mechanical anchoring system. Basically, it is a slot and nut.”

According to Shah, some of the limestone pieces weighed as much as 1,500 pounds. The building and support system were comprised of steel to carry the weight of the stone.

“If not for California zoning laws, we would have done traditional building [as in India] without the mechanical anchors,” explained Shah. This traditional method is known as Shilpashastras, which is an ancient Hindu architectural science that does not require the use of steel reinforcement.

Trivedi Craft Private Ltd. of Ahmedbad, India, was responsible for the quarrying and fabrication of the limestone pieces. An employee of MSI in India visited the quarry and factory to inspect the finished stone before shipment.

Interior stonework

Inside, the Jain Center features an assortment of Indian stone as flooring throughout the various spaces, which was supplied by MSI. Imperial Red granite 18- x 18-inch tiles were employed in the lobby, entryway, dining area and main assembly hall. This material was also used for steps. Additionally, Dark Green marble 12- x 12-inch tiles were also used in the assembly hall and White Galaxy granite 18- x 18-inch tiles were employed in the main dining hall.

Creating a point of interest in the interior floor design are large mosaic medallions, consisting of different shades of stone. The decorative floor elements, which were designed by MSI, bring a vibrant touch to the interior
space.

Other stones used for the project were Opal Brown 18- x 18-inch tiles from Oman and Almond Mauve 18- x 18-inch tiles from China. According to Shah, the color palette was also modified for the center. While temples in India traditionally use darker hues, the Jain Center includes a lighter and warmer color scheme. “[Also], we had to choose a much smoother [floor] design,” he said, explaining that the floor material needed to be durable and safe for the high traffic volume that the cultural hall will receive.

**Jain Center**  
**Buena Park, CA**

*Overall Design Architect:* LTI, Inc., Tustin, CA  
*Exterior Design Architect:* Virendra Trivedi, Ahamedbad, India  
*Interior Design Architect:* V Design, Ahamedbad, India  
*Stone Suppliers:* Trivedi Craft Pvt Ltd, Ahmedbad, India (limestone); MS International, Inc., Orange, CA (interior stone)  
*Stone Installer:* MS International, Inc., Orange, CA  
*Stone Substructure/Anchoring Design:* Rama Ramdev, R & R Consulting Services

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