ARCHITECTURE+DESIGN

AN INDIAN JOURNAL OF ARCHITECTURE



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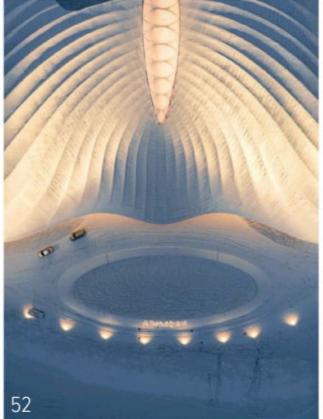
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CONCEPT

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Architectural Innovation FOR THE COMMUNITY, BY THE COMMUNITY I estied in the Himalayan foothills, the Lodsi climate and enmediate context. It has been designed in a manner that does not exceed the footprint of picturesquely located along the banks of the previously existing structure. Furthermore, the the river Ganges in Rishikesh. The design brief location of the site and the limited availability of stipulated by the client outlined the construction of a resources determined the budgetary and building manufacturing facility for a modern skincare company constraints for the project. Therefore, the firm set out that focuses on reviving the ancient science of to achieve a net-zero and energy-efficient building Ayurveda. The brand's philosophy of infusing ancient through an integrated design approach resulting in a Project: The Locisi Community Project for Forest Essentials, Rishikesh: Architects: Morphogenesis wisdom with contemporary aesthetics presented the free-running and off-grid production unit. design team with an opportunity to adapt vernacular The built form draws inspiration from the traditional A net-zero production facility in the Himalayan Foothills, this project utilises an integrated design construction techniques to create a contemporary Garwali kholi (house). A rectilinear volume oriented approach for a community-built building that contextually blends in with the site production facility. along the East-West axis has been planned with a The design approach and development of the central entry that divides the facility into two parts. facility was highly specific to the site's topography, Functions that require a cooler environment therb ARCHITECTURE-DESIGN





The design approach and development of the facility was highly specific to the site's topography, climate and immediate context. It has been designed in a manner that does not exceed the footprint of the previously existing structure.



grinding, packaging and storage) are located on the upper floor, whereas the preparatory functions with high internal heat gain are located on the lower floor. The North-South oriented butterfly roof form allows large openable windows to let in the prevailing North-East and South-East winds for ventilation, with 80% naturally day-lit spaces and unobstructed views of the valley. The high volume of space with operable clerestory windows enforces Bernoulli's principle and moderates indoor temperatures. A central light-well forms a multipurpose communal space. This also doubles up as mother and child wellness camps and for students post-school.

Passive design strategies and indigenous construction techniques resulted in a strong architectural expression that contextually blends in and builds community pride. Façade shading, windowto-wall ratio and building materials were optimised to ensure a high-thermal mass façade, resulting in an energy-efficient building envelope with an EPI of 38kWh/ m2/year. A solar roof generating 55kWp offsets the facility's requirements and creates a surplus to supply back to the grid, hence rendering the design 'Energy+'. A site-specific rainwater collection, storage tank and treatment system, and an effluent treatment plant offset the water requirements. Waste materials at the site have been repurposed and used, for instance reclaimed wooden rafters as light fixtures, waste purlin sections as tube light holders, stone chisels as door handles. re-bar as wash basin pedestals, and others. Any organic













The North-South oriented butterfly roof form allows large openable windows to let in the prevailing North-East and South-East winds for ventilation, with 80% naturally day-lit spaces and unobstructed views of the valley.







The use of vernacular materials, techniques, and village labour forms the ethos of the facility, making it 'a project for the locals, built by the locals and for the employment of the locals'. The Lodsi Community Project addresses socio-cultural and economic sustainability.

by-product is reused or composted. This project is net-zero on energy, water and waste. The planning incorporated the existing 'gaushala' (cow shed) to produce milk-based products.

Singly-five villagers built the project, and the building supports 45% of the village households directly and the enter village indirectly. The use of vernacular materials, techniques, and village labour forms the effices of the facility, making it a project for the locals, built by the locals and for the employment of the locals. The Lossi Community Project addresses sociocultural and economic sustainability. It is an example of decentralised development in the post-pandemic world. This project stayed functional through most of the pandemic, and the architects believe that it can serve as an example for future growth arcoss India 49.

Photo credit Noughts & Crosses LLP

FACTFILE

Lead Architects: Sonali Ruslagi, Aurustii Juneja

Contractor: Abriul Constructions Landscape Architects: Morphogonesis

Structure Engineers: Suncot Prasud Area: 30,000 au it





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