

GANENDRA ART HOUSE

The neighbourhood gallery becomes an art form in itself with a deliberate experimental structure that houses not only beautiful local art but stands tall as the vanguard of innovative sustainable and green design.

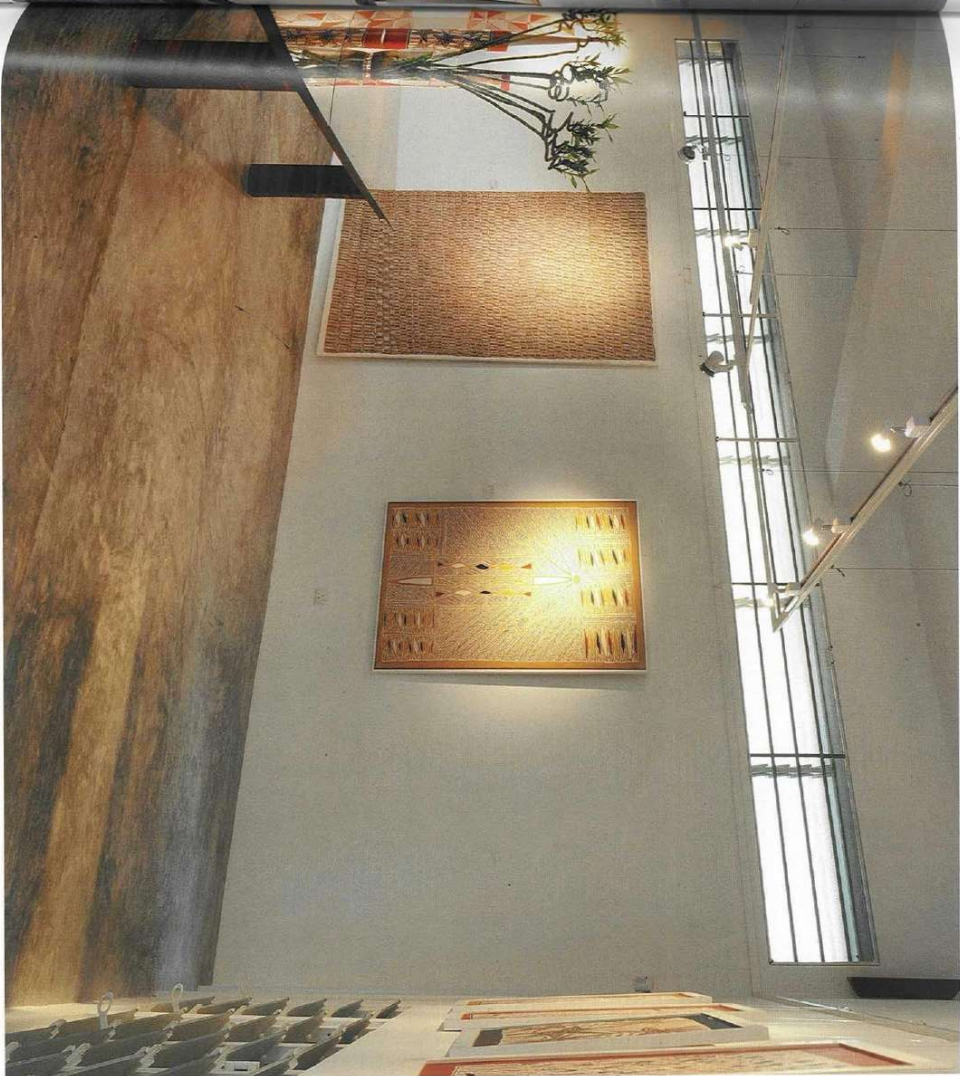
Investing in building a new bespoke gallery is a rare venture and its owner, Datin Shahni Ganendra, deserves to be applauded for her courage in building the Ganendra Art House. The Ganendra Art House is a space for the local Malaysian art and artist community, and in many ways, it is a worthwhile and altruistic endeavour.

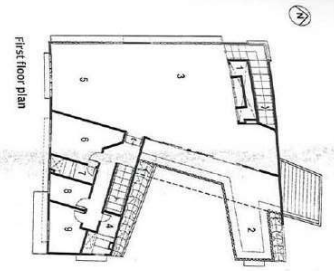
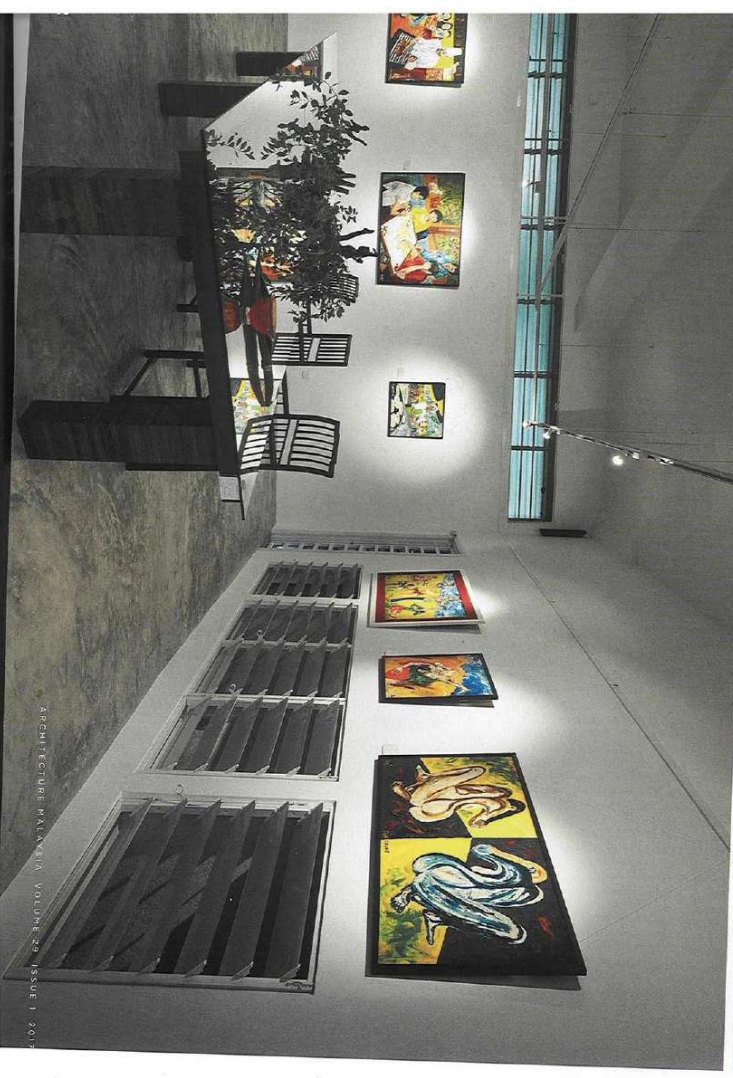
The small building is located in the quiet suburb of Peraling

Jaya, its addition creating a new buzz in an otherwise insignificant and sleepy part of Section 16. From the outset, Datin Ganendra wanted an experimental structure whose features would become topics of conversation for visitors while viewing the art pieces.

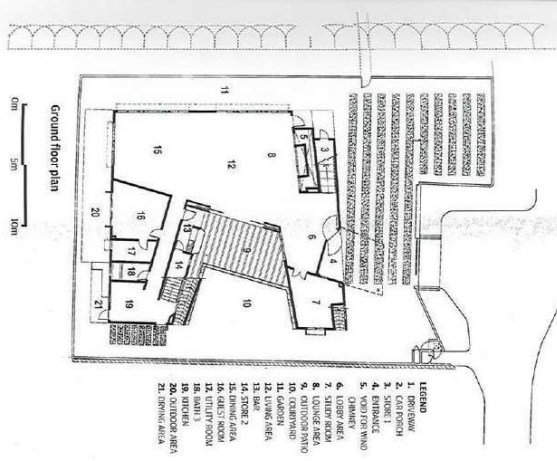
The Ganendra Art House is a prototype for down-draft passive cooling, which is popular in the Middle East where the external wind speeds and

climatic conditions favour the buoyancy needed for the device work. The building has not been explored for hot-humid tropics as Malaysia where there is a discrepancy between external temperature and internal temperature. Wind speeds in suburban areas are low, hence the cooling effect of down-draft needs to be mentored by mechanical means as a mixed mode. WI





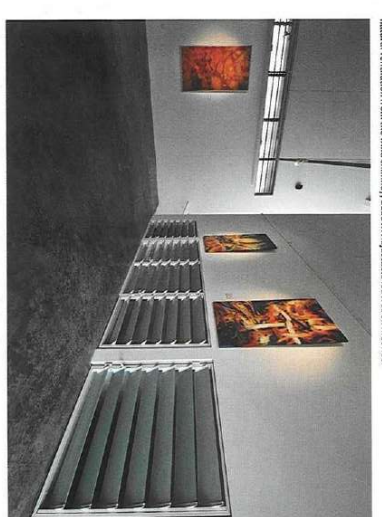
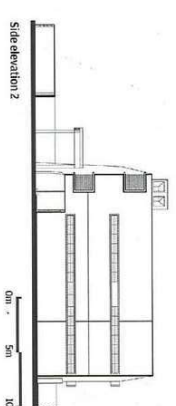
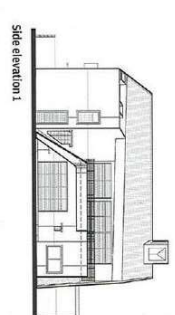
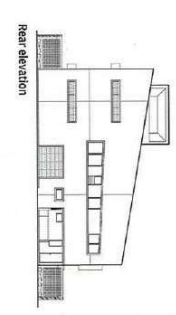
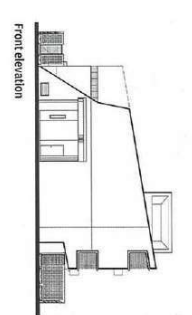
- LEGEND**
- 1. WINE CHAMBER
 - 2. BALCONY
 - 3. HALLWAY
 - 4. KITCHEN
 - 5. LIVING AREA
 - 6. BEDROOM 1
 - 7. BATH 1
 - 8. BATH 2
 - 9. BEDROOM 2



- LEGEND**
- 1. GROUND FLOOR
 - 2. BALCONY
 - 3. HALLWAY
 - 4. ENTRANCE
 - 5. VOID (PER WIND)
 - 6. LOBBY AREA
 - 7. SLIVER ROOM
 - 8. LOBBY AREA
 - 9. LOBBY AREA
 - 10. CORRIDOR
 - 11. CARPENTRY
 - 12. LIVING AREA
 - 13. STAIRS
 - 14. STAIRS 2
 - 15. STAIRS AREA
 - 16. OFFICE ROOM
 - 17. OFFICE ROOM
 - 18. BATH 1
 - 19. STITCHER
 - 20. OUTLOOK AREA
 - 21. STITCHER ROOM

external wind speeds are low or almost zero, the effectiveness of the system avoids further comfort loss through ventilation from doors and window openings. In this regard, the structure is part of an ongoing experiment in the use of such devices in the tropical climate. Aesthetically, Datin Shahini intentionally wanted the house's facade after its first coat of paint to be left unfinished and exposed to the elements. In its nakedness, the building slowly becomes a magnificent piece of sculpture, revealing the passage of time in

its gradually sullied skin and its growing fine veil of greenery. Datin and Datin Ganendra found great pleasure in the building, declaring, "The Ganendra Art House continues to develop our vision of providing the Malaysian community with a creative and multi-disciplinary platform for art, embracing eclectic programming and, of course, exemplifying a simple lifestyle with a stylish philosophy. The elegant design speaks to local materiality, climate and accessibility, as well as encourages personal reflection and pro-



LEFT PAGE, RIGHT TOP: Enhanced open, foldable the houses ground floor that bring in natural ventilation from the main chimney. LEFT PAGE, RIGHT BOTTOM: View from first floor.

CLIENT
 GUNARAJENDRAN AND DATIN
 SHARINI GANENDRA
 SELANGOR

LOCATION
 72A HAZZALI & YUANG
 SELANGOR

YEAR COMPLETED
 2016

ARCHITECT
 T2A HAZZALI & YUANG
 SELANGOR

PROJECT PERIOD
 2015-2016

CLIENT TEAM
 T2A HAZZALI & YUANG
 SELANGOR

SITE AREA
 2714.5 SQM

BUILD-UP AREA
 6334.5 SQM

DESIGNER NAME
 T2A HAZZALI & YUANG

DESIGNER QUALITY
 ARCHITECTURE

CONTRACTOR
 HANICORSETI SON BIRD

CONSTRUCTION & HANDOVER
 2016

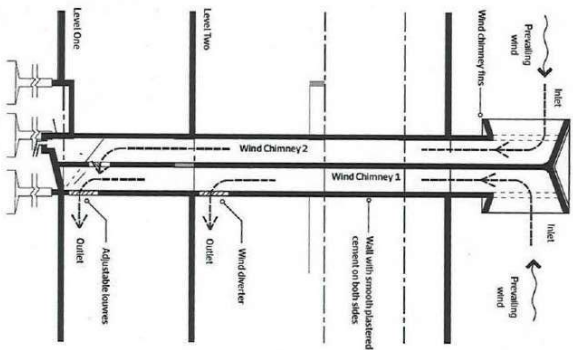
LANDSCAPE
 T2A HAZZALI & YUANG

ECO SYSTEMS
 SON BIRD

CFD SIMULATION
 SON BIRD

CONSULTANT
 SON BIRD

PHOTOGRAPHY
 3R STUDIO PHOTOGRAPHY



vides a vibrant space for social interaction, providing great joy in being there.”

The Ganendra Art House contributes benefits and social values to the locality besides being an art exhibition space. It is also used for lectures, forums and social art-related events. Art exhibitions by artists and artisans at the venue contribute to a diverse range of cultural and community activities within the neighbourhood, enhancing its value to the locality as a small public gathering space that fosters a sense of community and warmth amongst the neighbours. In the midst of private residential spaces, the public nature of the art house invites both locals and non-locals alike to join in on the pleasurable celebration of art, spreading the joy beyond the suburb.

In terms of green design, the Ganendra Art House is a trend setter in its innovative experimental ‘wind chimney’ that was never before tested in Malaysia. The shaft has 360° openings at its top as an omni-directional device to catch wind from all directions and is internally partitioned to channel wind down the shaft into the gallery and living spaces for comfort-cooling and natural ventilation. The extent of wind flow into the internal space can be manually controlled by operable glass louvers. The device was simulated using CFD (Computerised Fluid Dynamics) by Professor Shireen Kassim from the International Islamic University Malaysia (IIUM) and her team of building scientists. The building encourages nature to flourish, inviting native flora and fauna to be part of its realm. Its passive non-airconditioned sustainable design features reduce the negative heat-island thermal impacts on its surrounding context. Ecological design features include bioswales that remove silt and pollution from surface water run-offs, natural cross-ventilation, indirect day-lighting, external landscaping and sun shading devices to all windows. ❧

BELOW, FROM LEFT: Ganendra Art House entrance; Courtyard; Driveway; front facade; first floor gallery with high ceilings and ample natural light for ventilation and light

