



INTERIOR ARCHITECTURE

PRESENTATION 5

BY GROUP PHI ARCHITECTS AND DESIGNERS



Modibaug House

A Green Interior based on 3R principle

PROJECT FACT FILE

Residential Interior Project-for Pramod, Parimal & Parth CHAUDHARI

Location - **Pune**

Carpet area - **3000.00 sqft.**

Status - **Complete, 2012**

Scope : **Civil, Interior, Electrical and Landscape.**

OWNER'S BRIEF - 3R's For 3P's

The client wanted a new apartment with the feel, warmth and comfort of their old bungalow.

The new house was to be designed on the basis of (3R's) Reduce, Reuse and Recycle. This house was to be designed for the Husband Pramod Wife Parimal and their Son Parth (3P's) using all the existing furniture. Apart from having a fantastic view from the apartment, the client wanted to have a small garden where they can sit in the open and enjoy being close to the nature, still maintaining privacy. The garden should also have to be energy efficient with low maintenance.







Design process

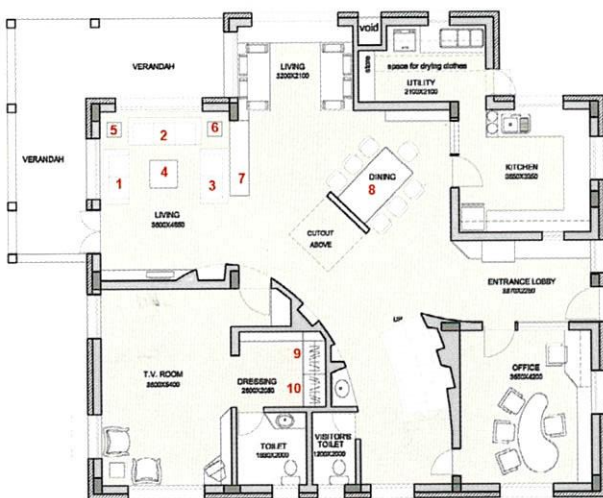
After identifying the furniture to be shifted, we assigned numbers to all the units, so it became easy for us to pin point the units on the layout and also easy for the client to understand the layout. The numbering system also helped us in shifting the furniture in the proper place. After fitting all the existing furniture units on the layout, additional units and filler units were designed as per the space available.

The material palette was selected keeping in mind the energy efficiency of the fittings. All the sanitary ware, faucets, flushing valves, are water saving fittings. All the light fittings are LED based hence with less electrical consumption. We have used mood setting panels with preset lighting moods for creating different ambience at different times.

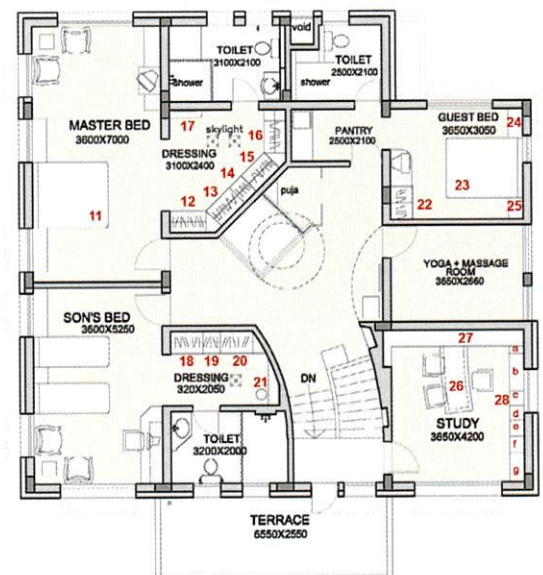
A single VRV unit is used for AC with 5 no. of units attached to it. (4 split units and 1 cassette unit).

The landscape in the terraces has a green roof and a vertical green wall. All the species were so selected that require a minimum amount of watering. The vertical green walls act as screens for privacy. The irrigation system of the green wall is designed for minimum water use and minimum wastage.

In this apartment @ 70% of the whole furniture is existing with a second life and @ 30% of the furniture is new, thus saving a lot of material and overall energy in the global context.



Old Bungalow plan - Ground Floor



Old Bungalow plan - First Floor



Conclusions : With all the above requirements and constraints we managed to create an energy efficient home for the client where saving was done on following points :

- Material** - @ 70%
- Electricity** - @ 50%
- Water** - @ 30%
- AC load** - @ 30%

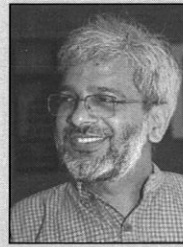


Constraints

The major constraint during the execution of the work on site was the time limitations. As the site is situated in a fully occupied residential complex, the time slot available for working was 9.30 am to 1.00 pm and 4.00 pm to 6.00 pm and no work to be done on Sundays. Due to this limited working time available, all the activities on site had to be planned accordingly. Majority of the new furniture was made in a workshop and then got on the site for finishing which was to be matched with the existing units. The material movement was not allowed by lift, so all the material was brought up on the 10th floor by the staircase.

The shifting of the existing furniture had to be planned in such a way that there should be minimum inconvenience caused to the client. Shifting the old furniture had to be done in steps where everything had to be labeled, packed, dismantled, shifted on site, located on site, modified as per site conditions and then finished. The time span in which this had to be done was @ 2 months.

Based on this, we had identified the priorities about the furniture of the client and scheduled the shifting accordingly. As the old work was completed @ 7 years back, matching the veneer and handles was difficult. But after @ a month's survey, we managed to get the new lot matching to the earlier one.



Principal Architect

Ar. Hemant S. Mahajan, (CA/86/10303)

Member of - IIA, IIID, CA, IIIA, AESA, FEED, HSM

Approved Valuer registered with: **Council of Architecture – Delhi**

GROUP PHI

Architects and Designers

An Architect and Planner with over 25 years of experience, Hemant Mahajan is the founder, Partner, Principal Architect of GROUP PHI Architects and Designers based in Pune, India from year 1986.

Recipient of Six national, Two International & @ Ten district level awards to the credit, participated in numerous competitions & has also worked as a Jury member in various competitions at professional & Institutional level. He has guided students for thesis work at undergraduate and Masters Levels.

Voluntarily works on AESA, Institute of Indian Interior Designers (IIID) as Hon. Jt. Secretary, & also member on the Urban Heritage committee of Pune Municipal Corporation

Hemant has also passion about conservation, photography, sketching & travelling at various places

