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| Project Name: | H2O HOUSE |
| Project Type: | Residential |
| Location: | HYDERABAD |
| Client: | BALU CHODARY |
| Project Location: | Hyderabad |
| Project Status: | COMPLETED |
| Built-up Area: | 12,500 Sq. ft. |
| Site Area: | 1405.12 SQ.YDS. (1174.86 SQ.MTS.) |

Project Description:

THE CHALLENGE WAS TO DEIGN A CLIMATALOGICALLY SENSITIVE BUILDING IN A SITE, WHICH DISOBEYED THE PRIME NORM OF LONGER SIDE FACING NORTH AND SOUTH.

HENCE EMPHASIS WAS LAID ON TAKING ADVANTAGES OF THE THE PREVAILING WIND DIRECTION FROM SOUTH WEST.

THE HOUSE IS MODERATELY DENSE, AND IS A LOW RISE DEVELOPMENT WHICH MAKES IT BEST SUITABLE FOR CLIMATE OF HYDERABAD.

THE PROJECTING BALCONIES, ON THE NORTHERN SIDE PROVIDES MUTUAL SHADING, OF THE EXTERNAL WALLS, WHICH HELPS TO REDUCE THE INDOOR TEMPERATURE.

THE WATER BODY LOCATED IN THE NORTH EASTERN SIDE, HELPS IN EVAPORATIVE COOLING AND BRINGING DOWN THE INDOOR TEMPERATURE, DURING DAY TIME.

THE HOUSE IS ZONED VERTICALLY, BASED ON THE PRINCIPLES OF PRIVACY AND TOTAL TIME SPENT IN A RESPECTIVE SPACE ON THE GROUD FLOOR SEMIPRIVATE AREAS LIKE LIVING, DRAWING, KITCHEN, ARE LOCATED, ON THE FIRST FLOOR, THE BEDROOMS OF THE FAMILY ARE3 LOCATED. AND ON THE SECOND AND THE TERRACE FLOOR IS DEDICATED FOR THE RECREATION.

LIGHT WEIGHT FLYASH BRICKS AND THERMAL INSULATION SHEET IS USED AS MASONARY.THIS REDUCES THE CONDUCTION OF HEAT FROM OUTSIDE TO INSIDE.

LARGE OPENINGS ARE PROVIDED ON THE OPPOSITE WALLS TO FACILITATE CROSS VENTILATION.

DOUBLE GLAZED FIXED OPENING ARE ACCOMPANIED BY MOTORIZED BLINDS, WHICH REGULATE THE AMOUNT OF LIGHT TO BE PENETRATED INTO THE BUILDING SENSING THE LUX LEVELS REQUIRED FOR THE SPACE.

SURFACES EXPOSED TO THE SUN ARE COATED WITHLIGHT COLOURED SHINY METAL POLISHED FINISH,TO REDUCE HEAT GAIN.

TO MAKE THE BUILDING MORE EFFICIENT, SOLAR PANELS OF 10 KW POWER ARE INSTALLED ON THE TERRACE. THIS HELPS IN MEETING THE ENERGY REQUIREMENTS OF THE BUILDING.

TO REDUCE THE INCIDENT HEAT THROUGH TERRACE, GENEROUS AMOUT OF LANDSCAPE IS DONE ON THE TERRACE. THIS HELPS DECREASING THE OVER ALL TEMPERATURE OF THE HOUSE.