



VERTICAL & HORIZONTAL TRANSPORTATION (VHT) PLANNING & ENGINEERING

Introduction

PAPL Corp is a leader in VHT Planning & Engineering, involved in many iconic buildings across India, starting from concept design up to the handing over stage. PAPL Corp has the privilege of working with top builders and architects in planning the VHT requirement for world class buildings and structures. We collaborate with the project architects and the design team to ensure that our designs seamlessly integrate with the building thus ensuring smooth traffic flows and efficient handling of traffic apart from being cost effective.

Interior Circulation in buildings is a complex activity. People & materials move throughout the building using Elevators, Escalators, Travelators and Car Parking systems. These equipment have become an integral part of life and play a major role in the success of a building as a place to work, live or receive service. They are part of every built environment like Multiplexes, Malls, Airports, Metros, Commercial Offices, Hotels, Educational Institutions, and Residential Complexes etc. and are no longer deemed a luxury. Planning for these equipment and the pattern of usage should address both quality and quantity of service apart from being a safe and sound equipment meeting regulatory requirements.

What is Vertical Transportation Planning & Engineering?

Planning, engineering and selection of VHT equipment requires substantial collaboration among various expert trades. The process starts with traffic analysis based on population estimates and selecting the right equipment that is contemporary, safe and meets all governing standards. Although the calculations are simple, easy to understand and use, the application of these calculations is complex and requires expertise and experience.

Space efficiency is a key factor since VHT Equipment utilize substantial space and thus affect the building's amount of usable or saleable space. Nevertheless, the building must also have enough elevator capacity to operate properly. Design neutrality will allow the building promoters/ owners to have flexibility in selecting a vendor of their choice.

Planning & Engineering involves providing dimensions, specifying the right operating & safety features as well as ensuring the equipment meets the latest codes and standards.

Why choose PAPL Corp For VHT Design?

With over over thirteen years' of domain experience in planning & engineering of VHT Systems, across all sectors of the built environment PAPL Corp has established itself as a leader in this Domain. Our dedicated team of engineers are experts in dealing with the challenges of VHT equipment irrespective of size, scope or complexity of the project. We work directly with Developers, Architects and Asset Owners and apply our knowledge of the latest innovations and advances in the lift industry to help make cutting edge architecture possible.

What services does PAPL Corp offer?

- **Traffic Analysis And Simulation** - Traffic analysis using latest software to determine all performance parameters for establishing VHT Requirement and meet requirements of the governing codes/standards. Simulation for closer to real time values.
- **Equipment Dimension Matrix** - Common civil dimension matrix ensures compliance by most of the vendors/OEM.
- **Electrical & Structural Loads** - Planning information on civil and electrical requirement.
- **Budget Estimates** - Closer to market values budget prices based on price data available with us.
- **Design Brief Reports** - Detailed design brief covering all aspects of the elevator design including interphase required from other agencies and approvals from other consultants.
- **Layout Drawings** - Detailed AutoCAD drawings providing all dimensional parameters.
- **Specifications** - Detailed specifications covering close to 200-line items pertaining to all aspects including safety, performance, operating system etc.
- **Bid Documents** - Detailed bid documents covering technical data sheet, scope of work, price schedule, tests and certificates requirements etc.
- **Bid Evaluation** - Objective bid evaluation. 50-point scoring system for a very objective & transparent decision making.

Approvals

- **Specification Approval** - Check and approve specifications to ensure the vendor complies with the specifications and does not deviate or avoid compliance to critical requirements.
- **Drawing Approval** - Approve vendor GA drawings and check if the drawings are in line with architectural drawings and with the site.

- **Finishes Approval** - Ensure vendor provides necessary inputs as per requirement for approval by client and clear submission to enable client approval.

Project Related Inspection & Reviews

- Factory Inspections
- Quality Plan Review
- Methods Statement Review
- Material Checking
- In Process Checks
- O&M Manual Review

Pre Handing Over Inspection

- NBC 2016 based inspection
- Generation of sang report
- Re-inspection if required
- Issue of certificate of inspection on criteria fulfilment
- Provide inspection stickers

Peer Review

- Review Traffic Analysis
- Review Dimension Matrix
- Review DBR
- Review Specifications

What Value does PAPL Corp bring?

- We are leaders in the VHT Domain with abundant experience and resource. We have the ability to handle even the most complex projects.
- We are independent, impartial and demonstrate our design neutrality so you can have confidence that our advice represents your best interests.
- With PAN India experience behind us, we offer comprehensive and responsive service matching every market requirement.
- Most of our processes are automated including preparation of specifications, technical evaluation and inspection reports. This ensures standardization and eliminates errors in all the processes.
- We are an accredited inspection body and comply with ISO/IEC 17020:2012, an affirmation of our competence.

Further information

If you need further details or need our services, please write to us at info@paplcorp.com or call us at +919884507535 and we will be happy to assist you.