AASHIR ENGINEERING PVT. LTD.

BIM STUDIO







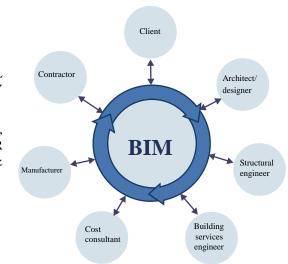


BUILDING INFORMATION MODELING (BIM)

BIM IS NOT JUST SOFTWARE IN FACT IT IS A PROCESS.

IT IS AN INTEGRATED PROCESS OF GENERATING AND MANAGING A BUILDING BY EXPLORING A DIGITAL MODEL BEFORE THE ACTUAL PROJECT IS CONSTRUCTED AND LATER DURING ITS CONSTRUCTION, FACILITY OPERATION AND MAINTENANCE.

"BIM IS DIGITAL MODEL OF A BUILDING IN WHICH INFORMATION ABOUT PROJECT IS STORED. IT CAN BE 3D, 4D (INTEGRATING TIME) OR 5D (INCLUDING COST) – RIGHT UP TO 'nD'(A TERM THAT COVERS ANY OTHER INFORMATION). AS A RECEPTACLE FOR PROJECT INFORMATION, BIM HAS MASSIVE VERSATILITY & POTENTIAL."





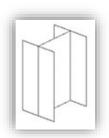
LOD (LEVEL OF DEVELOPMENT)

LOD SPECIFICATION IS A REFERENCE THAT ENABLES PRACTITIONERS IN THE AEC INDUSTRY TO SPECIFY AND ARTICULATE WITH A HIGH LEVEL OF CLARITY THE CONTENT AND RELIABILITY OF BUILDING INFORMATION MODELS (BIMS) AT VARIOUS STAGES IN THE DESIGN AND CONSTRUCTION PROCESS AND ALLOWS DOWNSTREAM USERS TO CLEARLY UNDERSTAND THE USABILITY AND THE LIMITATIONS OF MODELS THEY ARE RECEIVING. THE INTENT OF SPECIFICATIONS HELPS IN EXPLAINING THE LOD FRAMEWORK & STANDARDIZE ITS USE SO THAT IT BECOMES MORE USEFUL AS A COMMUNICATION TOOL.



LOD 100: CONCEPTUAL

THE MODEL ELEMENT
MAY BE GRAPHICALLY
REPRESENTED IN THE
MODEL WITH A SYMBOL
OR OTHER GENERIC
REPRESENTATION.



LOD 200: DESIGN MODEL

THE MODEL ELEMENT MAY BE GRAPHICALLY REPRESENTED IN THE MODEL AS A GENERIC SYSTEM, OBJECT OR ASSEMBLY WITH APPROXIMATE QUANTITIES, SIZE, SHAPE, LOCATION, AND ORIENTATION.



LOD 300:

CONSTRUCTION MODEL
THE MODEL ELEMENT IS
GRAPHICALLY REPRESENTED AS A
SPECIFIC SYSTEM, OBJECT OR
ASSEMBLY IN TERMS OF QUANTITY,
SIZE, SHAPE, LOCATION, AND
ORIENTATION. THE PROJECT ORIGIN
IS DEFINED AND THE ELEMENT IS
LOCATED ACCURATELY WITH
RESPECT TO THE PROJECT ORIGIN.



LOD 350 & 400: FABRICATION MODEL

THE MODEL ELEMENT IS GRAPHICALLY REPRESENTED WITHIN THE MODEL AS LOD 300 ALONG INTERFACES WITH OTHER BUILDINGS. LOD 400 IS MODELED AT SUFFICIENT DETAILING, FABRICATION, ASSEMBLY & INSTALLATION INFORMATION.



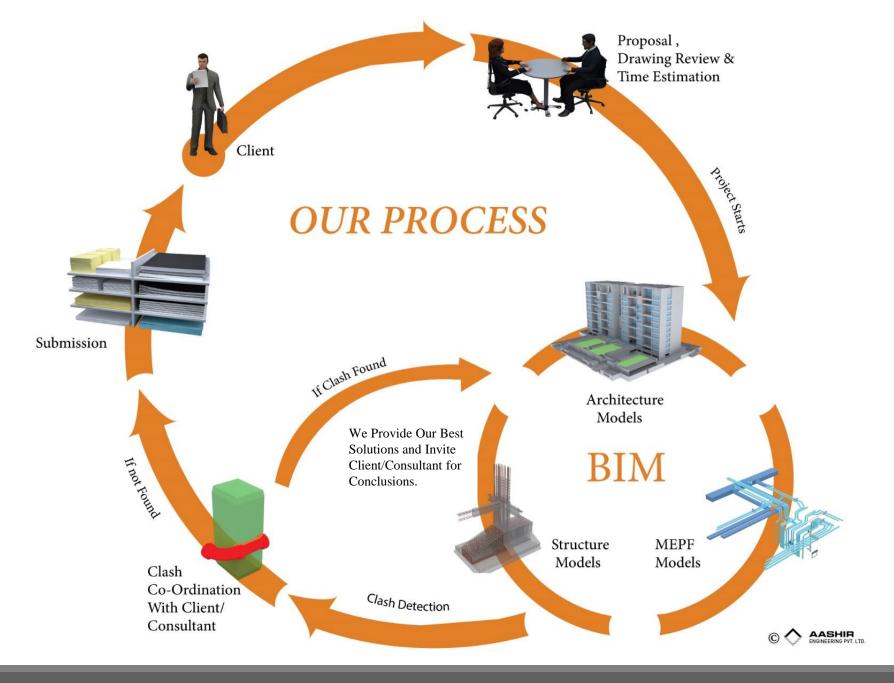
LOD 500:

AS-BUILT MODEL
THE MODEL ELEMENT
IS A FIELD VERIFIED
REPRESENTATION.
EACH ELEMENT
CONTAINS AS BUILT
AND FACILITY
MANAGEMENT INFO.
THAT IS INTEGRATED
INTO THE MODEL.

LOD BENEFIT:

- TO HELP TEAMS, INCLUDING OWNERS, TO SPECIFY BIM DELIVERABLES AND TO GET A CLEAR PICTURE OF WHAT WILL BE INCLUDED IN A BIM DELIVERABLE
- TO HELP DESIGN MANAGERS EXPLAIN TO THEIR TEAMS THE INFORMATION AND DETAIL THAT NEEDS TO BE PROVIDED AT VARIOUS POINTS IN THE DESIGN PROCESS
- TO PROVIDE A STANDARD THAT CAN BE REFERENCED BY CONTRACTS AND BIM EXECUTION PLANS.











CORPORATE HOUSE

TECH. PARK



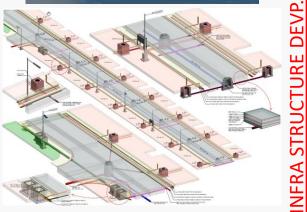


BANQUET

HOTEL

<u>AIRPORT</u>





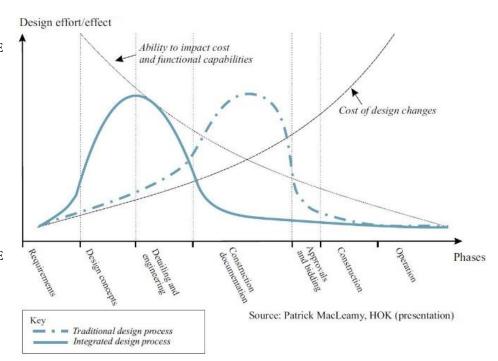






BENEFITS OF BIM

- DATA ONCE ENTERED CAN BE REPROCESSED THROUGHOUT THE LIFE CYCLE OF THE PROJECT
- METHOD WIDELY HELD FOR CLASH AVOIDANCE
- REDUCES COSTS
- REDUCES RE-WORK
- FASTER DOCUMENTATION/DRAFTING WITHOUT LOSS OF COST & QUALITY
- MODEL BEHAVIOUR CAN BE ANALYSED
- BLENDING GEO-SPATIAL AND BUILDING INFORMATION FOR PLANNING
- REDUCING REQUESTS FOR INFORMATION AND CHANGE ORDERS
- WORK ON A SINGLE 3D MODEL RATHER THAN A MULTITUDE OF SEPARATE 2D FILES
- IMPROVING AWARENESS OF PROGRESS AND CURRENT STATUS OF PROJECT
- REDUCING CYCLE TIMES BETWEEN REVIEWS & RFI'S
- CREATING A TIME-BASED SIMULATION OF CONSTRUCTION ACTIVITIES
- IMPROVED COMMUNICATION BETWEEN CLIENT AND SUPPLIER
- ENSURING LOWER WHOLE-LIFE COSTS FOR THE ASSET THROUGH SUSTAINABLE DESIGN TESTED OUT AT THE DESIGN STAGE
- QUANTITY TAKE-OFF
- CLARITY IN CONSTRUCTION SEQUENCING
- ENERGY ANALYSIS
- INCREASES PROJECT VIABILITY IN TERMS OF FINANCE / TIME PERIOD WHICH MINIMIZES THE RISK FACTOR



DURING CONSTRUCTION

- > SOLVES CLASHES BEFORE CONSTRUCTION.
- > NO DISTURBANCE TO STRUCTURAL ELEMENTS AS ALL SLEEVES CAN BE PLANNED IN THE BIM MODEL.
- > REDUCE CONSTRUCTION WASTAGE.
- > QUALITY CONSTRUCTION OF ALL SERVICES.
- > SAVES TIME.
- > 3-D DRAWINGS BRINGS CLARITY AT SITE.

AFTER CONSTRUCTION

- > EASE OF MAINTENANCE DURING RENOVATION.
- >DETECT PROBLEMS DURING SERVICE FAILURE.
- > FUTURE MODIFICATION AND ITS ESTIMATION.
- ➤ USERS GET EXACT BENEFITS WHICH WAS PLANNED.

ARCHITECTURAL BIM SERVICE

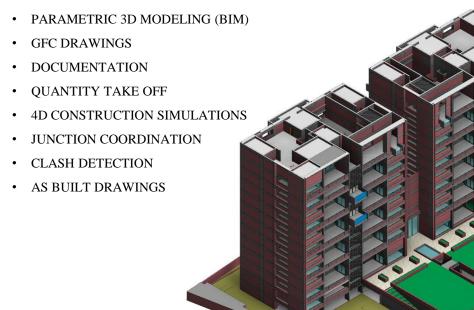
WE AT AASHIR SUPPORT OUR CLIENT'S FOR THEIR PROJECTS OF ANY NATURE AND AT ANY STAGE, CONFORMING CODES AND STANDARDS. WE SUPPORT OUR CLIENTS IN THEIR BUILDING INFORMATION MODELING PROJECTS FROM SIMPLE 3D PARAMETRIC MODELING WITH SERVICES SUCH AS COORDINATION BETWEEN THE VARIOUS DISCIPLINES, CLASH DETECTION, CONSTRUCTION SEQUENCING AND 4D ANALYSIS WHICH BRINGS PROJECT COST NEXT TO NOTHING.

OUR TEAM HAS EXPERTISE IN THE INDUSTRY LEADING TOOLS & PLATFORMS LIKE AUTODESK REVIT, AUTOCAD, SKETCHUP, PHOTOSHOP ETC.

ARCHITECTURAL SUPPORT:

• ARCHITECTURAL CGIS (COMPUTER GENERATED IMAGERY) IN BOTH 2D AND 3D FOR VISUALIZATION

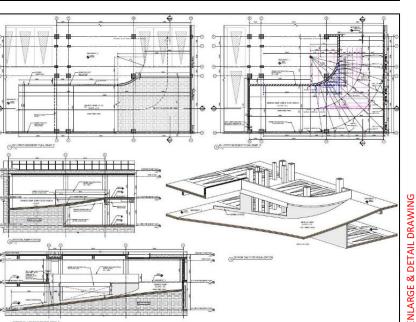
DESIGN DEVELOPMENT

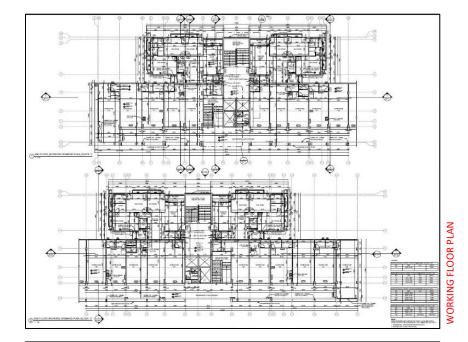














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LEVATION & SECTION

MEPF BIM SERVICE

OUR TEAM HAS EXPERTISE WHO HAVE WORKED WITH PROJECT FROM RESIDENTIAL, LARGE SCALE PROJECTS TO CRITICAL AREAS LIKE HOSPITAL, ETC. WE AT AASHIR FOLLOW UNIQUE COMMUNICATION METHODS BETWEEN ARCHITECT, CONSULTANT, CONTRACTOR AND PROMISE OF A WELL-COORDINATED CLASH FREE MODEL. OUR PRESENTATION METHOD OF CREATING GOOD FOR CONSTRUCTION DRAWING WITH SMART ANNOTATIONS BRINGS EASE TO UNDERSTAND AND EXECUTE INSTALLATION ON SITE.

MECHANICAL BIM MODEL SUPPORT

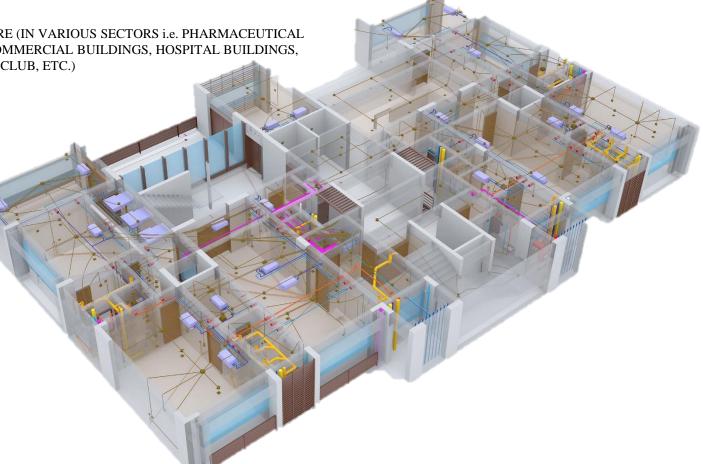
ELECTRICAL BIM MODEL SUPPORT

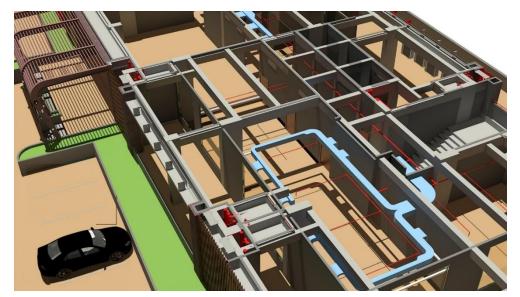
PLUMBING & FIRE:

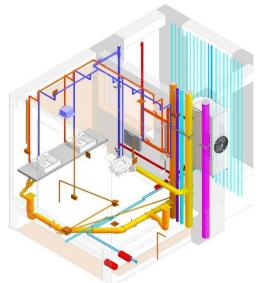
• DESIGN CONSULTANCY FOR PLUMBING & FIRE (IN VARIOUS SECTORS i.e. PHARMACEUTICAL MANUFACTURING UNITS, RESIDENTIAL & COMMERCIAL BUILDINGS, HOSPITAL BUILDINGS, CHEMICAL INDUSTRIES, SPORTS STADIUM & CLUB, ETC.)

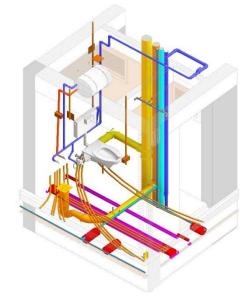
CHEMICAL INDUSTRIES, SPORTS STADIUM & CLUB, ETC.)

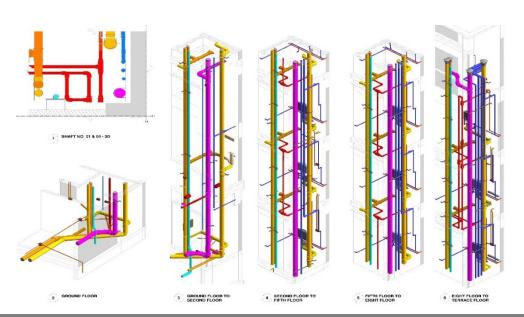
- SHOP DRAWING
- GFC DRAWING
- CLASH DETECTION WITH SOLUTIONS
- RESOLVES JUNCTION & PROVIDE SOLUTION
- VALUE ENGINEERING
- 4D CONSTRUCTION SIMULATIONS
- QUANTITY TAKE OFF
- AS BUILT DRAWINGS
- PREPARATION OF DESIGN REQUIREMENT DOCUMENT/ SPECIFICATION

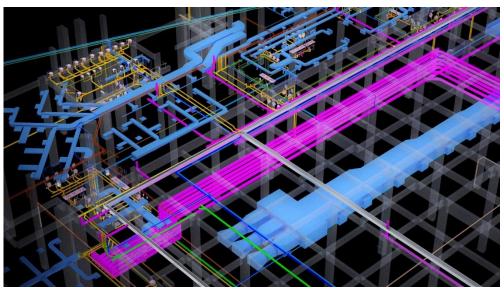




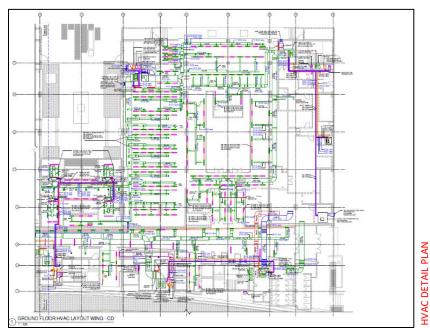


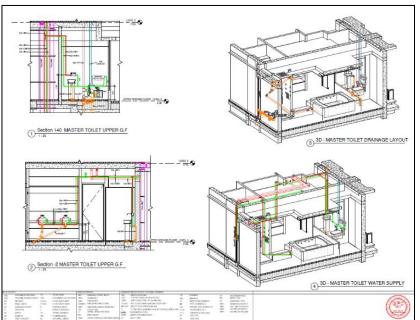












PLUMBING DRAWING

FIRE SYSTEM LAYOUT

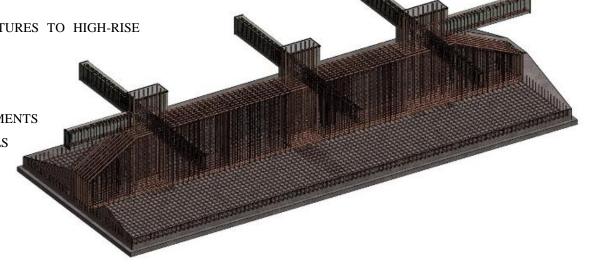
STRUCTURAL BIM SERVICE

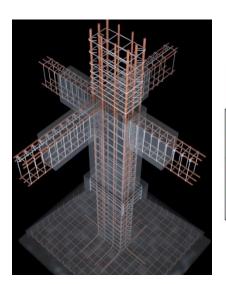
WE SUPPORT OUR CLIENTS IN PLANNING PURCHASE & FINANCES. THIS GIVES AN EXACT QUANTITY OF STEEL TO BE USED IN THE PROJECT FROM DAY ONE, WHICH WILL SAVE WASTAGE & CONSTRUCTION TIME IN HUGE WAY.

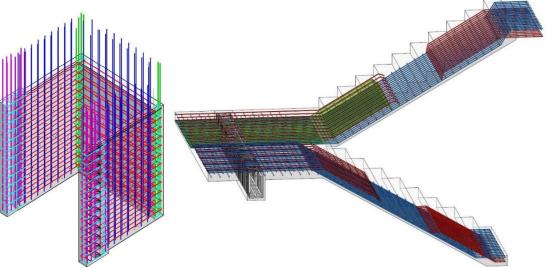
OUR EXPERIENCE RANGES FROM SMALL RESIDENTIAL STRUCTURES TO HIGH-RISE BUILDING STRUCTURES.

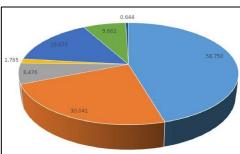
STRUCTURAL SUPPORT:

- IDENTIFY HIGH RISK / COST ELEMENTS IN STRUCTURE
- PRELIMINARY INPUT TO ARCHITECT ON ARCHITECTURAL ELEMENTS
- REBAR BBS (BAR BENDING SCHEDULE) AND BILL OF MATERIALS
- VALUE ENGINEERING
- 3D TENSILE STRUCTURE & DETAILING
- DIGITAL PREFABRICATION
- RCC QUANTITY TAKE OFF FOR RMC









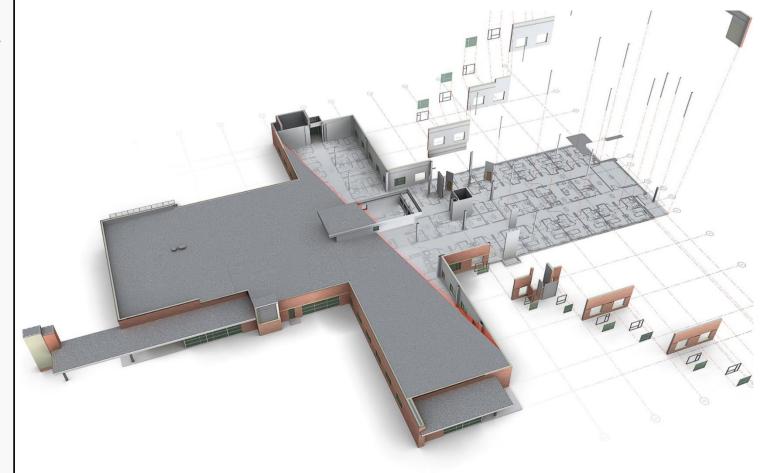
SR.NO.	DESCRIPTION	WT IN TON
1	BBS OF FOOTINGS OF ALL COLUMNS	58.750
2	BBS OF COLUMNS (VERTICALS UPTO MID OF HOLLOW PLINTH LEVEL)	30.041
3	BBS OF STIRRUPS OF COLUMNS (UPTO HOLLOW PLINTH LEVEL)	8.476
4	BBS OF WALL FOOTINGS	1.765
5	BBS OF EXISTING COMPOUND WALL (VERTICALS + HORIZONTALS)	19.675
6	BBS OF SHEAR WALLS (VERTICALS UPTO HOLLOW PLINTH LEVEL	9.662
7	SHEAR WALL STIRRUPS AND LINKS UPTO (HOLLOW PLINTH LEVEL)	0.644
8	TOTAL WT IN TON	129.013



"Where imagination to execution goes on with integration."

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Thank You

