INNOWELL ENGINEERING INTERNATIONAL PVT LTD

• BENGALURU

CHENNAL

SIVAKASI HYDERABAD

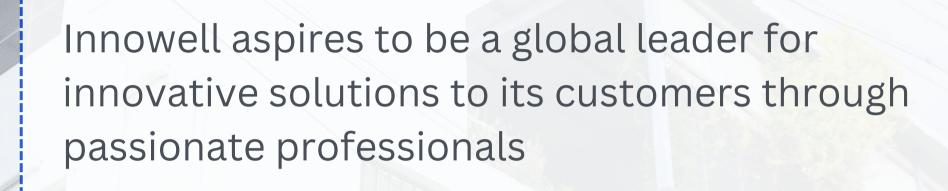
DHAKA



An ISO 9001: 2015, 14001:2015, 27001:2022, and 50001:2018 Certified Company

BIM Projects

Inspired by Commitment. Powered by Passion.



OUR VISION

Core Values:

Integrity | Customer Excellence | People | Learning | Innovative

MISSION









Develop

Empower

Care

Serve

Nurture young talents

Empower talents with innovative process and standards

Provide Challenging and joyful working Environment

Continuously explore client's needs and serve better



Innowell received LEED Proven Provider recognition from GBCI for continuously delivering excellent and efficient Sustainable Design Practices





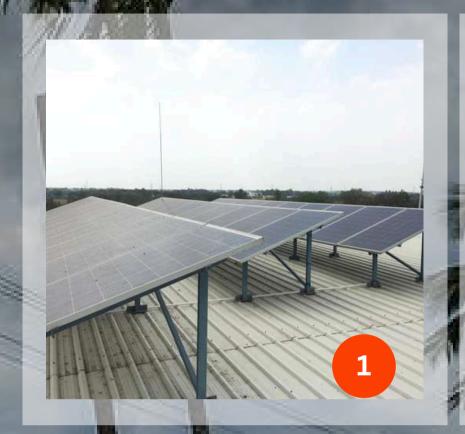




Our Village office

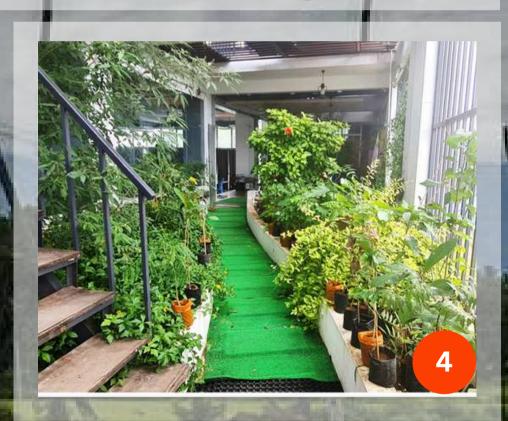
in Maraneri, Sivakasi, Tamilnadu, India

- 300% Efficient HVAC
- 200% Solar-Powered
- 100% Day-lighted
- 100% Views
- 55% Water Reuse
- 30% Roof Garden
- 39% Material Reuse









- 1. Solar Panel
- 2. Reused materials, ergonomic workstation.

- 3. Daylight design, hydration plants, aesthetic wall arts
- 4. Nature incorporated roof garden







Acoustical Quiet Zone



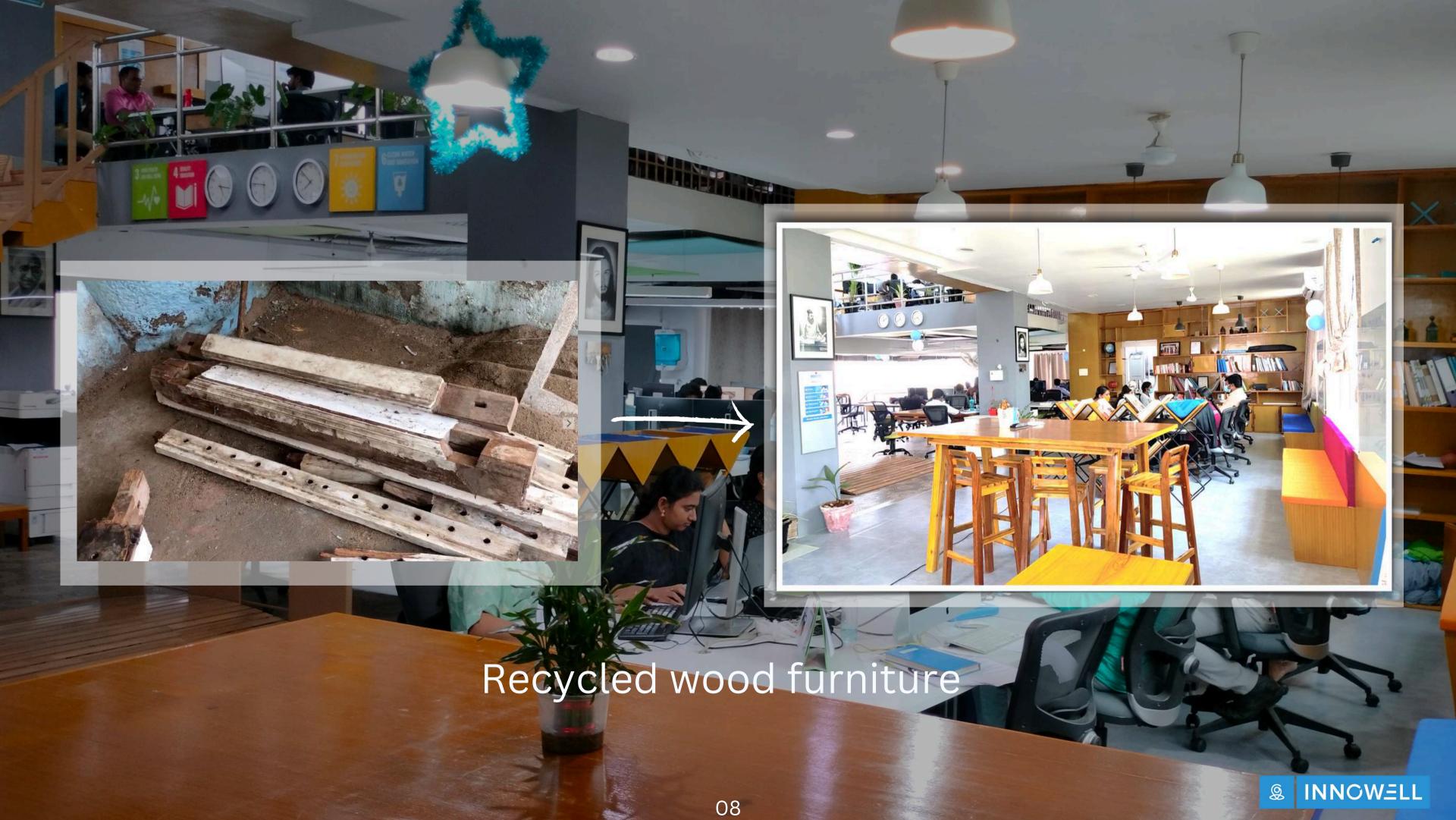
Proper Lightings



Aesthetic Stair



Stage for Celebration



Certified on



Achieved certification under the ISO 9001:2015, 14001:2015, 27001:2022, 45001:2018, 50001:2018 standard for Integrated Quality Management





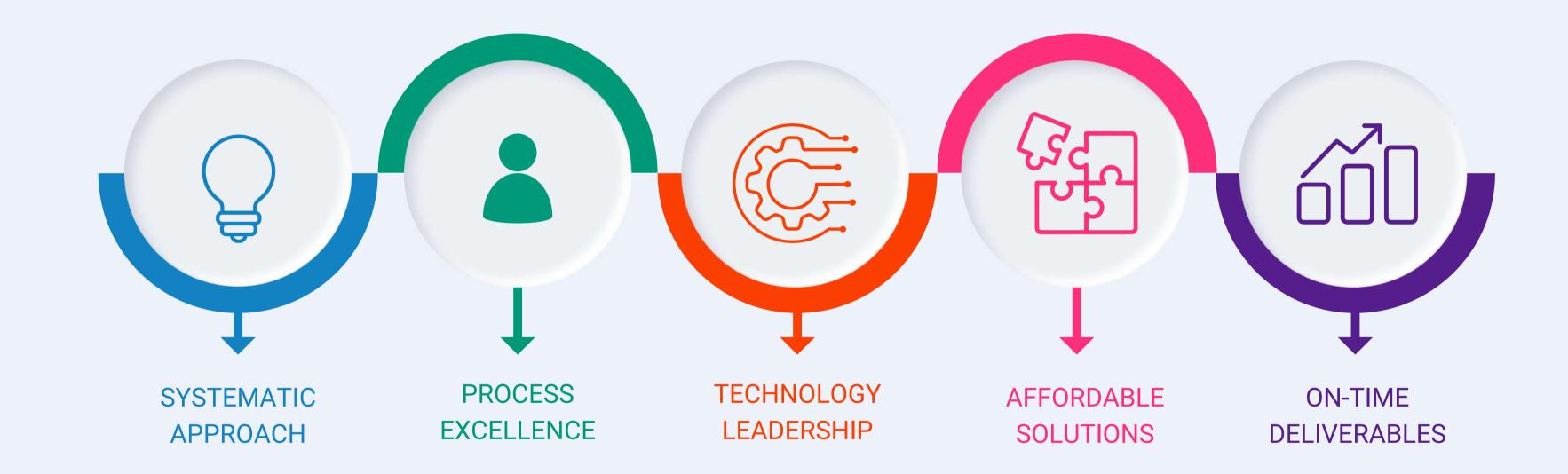
THE WORLD'S
HIGHEST
LEED CERTIFIED

under v4.1 EB O&M Category





Why Innowell



What we do







- HVAC
- Electrical
- Plumbing & Utility Design
- Fire Protection System



BIM

- BIM MEP & Industrial Piping
- BIM C&ID
- BIM Consultancy



Sustainability

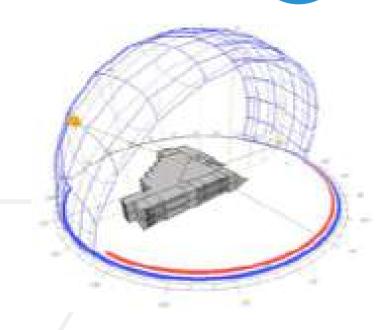
- LEED
- IGBC
- GRIHA
- WELL
- Carbon Reduction Programe
- Energy Audit



How we do















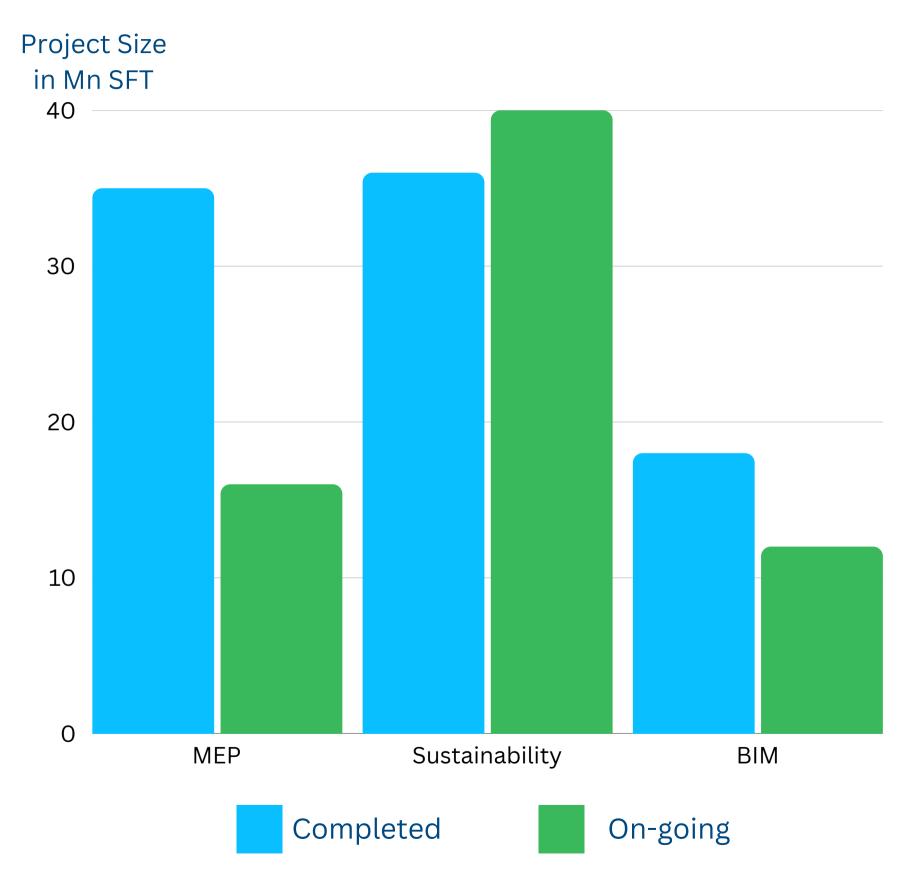






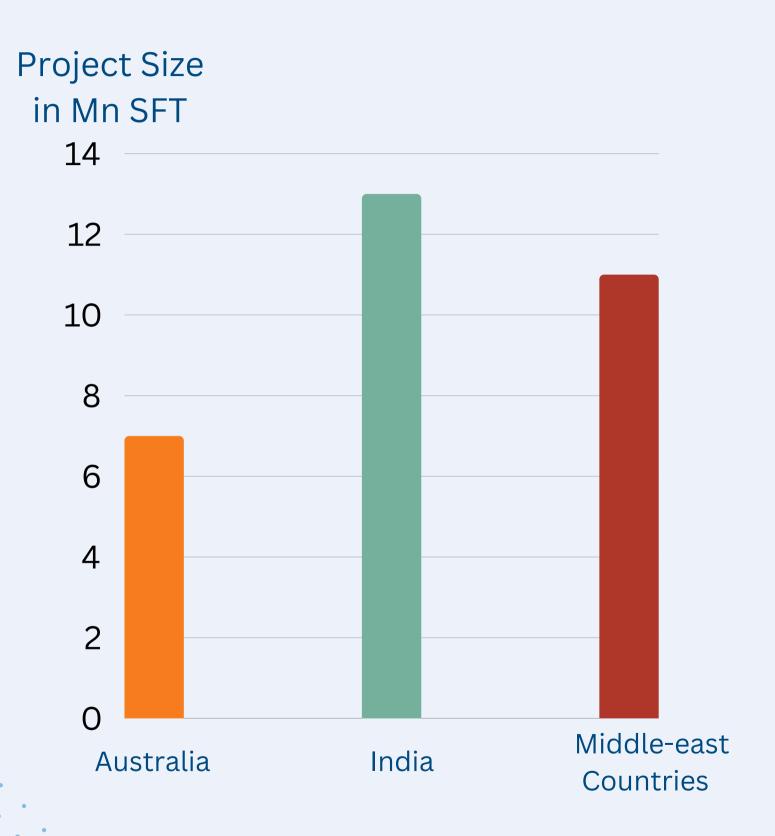
- Commercial Buildings
- Office Fit-outs
- Data centres and Labs
- Hospitals
- Industries
 - Electronic Industries
 - Tyre Factories
 - Bottling Factories
 - Chocolate Factories
 - Textile and Garment Factories
- Clean room Applications

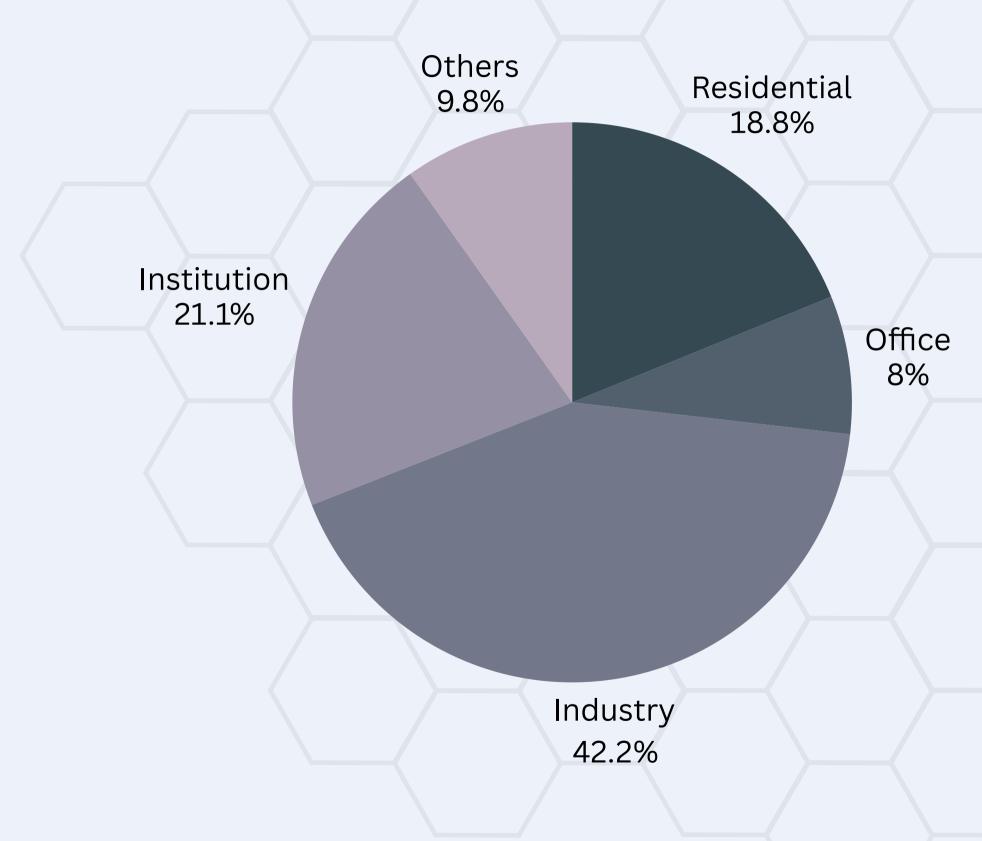
Project Accomplishment





Project Accomplishment







Leadership Profile



Gunasekaran Director

LEED AP, WELL AP, WELL PTA



Sengathir Selvan





Sankareswari Director



Samuel **Associate Director**



Regobert **Associate Director**

IGBC AP



Pandidurai Manager, BIM



Thalaiselvam

Manager, Corporate Sustainability

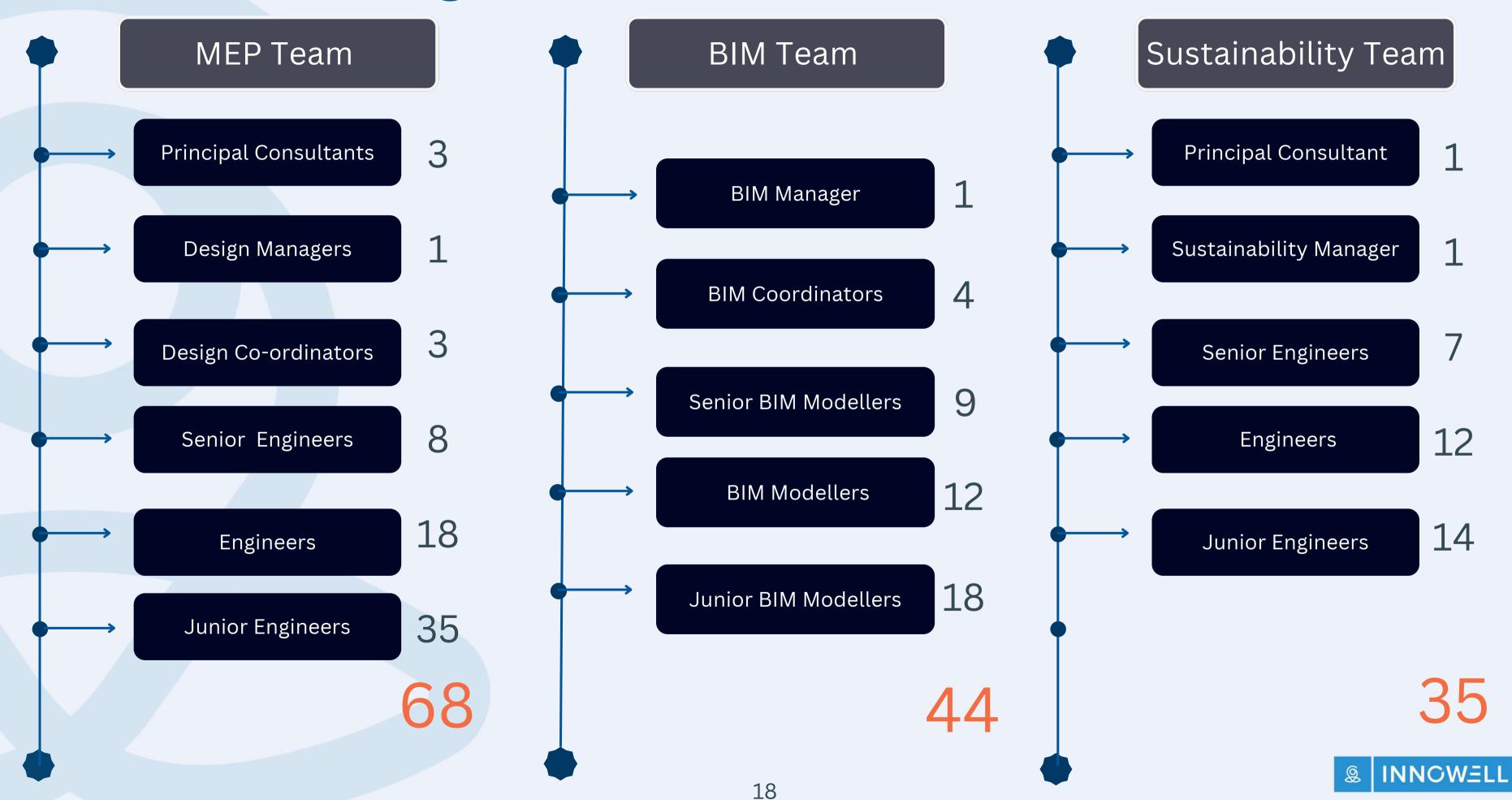
LEED AP, WELL AP, IGBC AP, EDGE Expert, TRUE Advisor, GRIHA CP, LCA Specialist



K.Kalliani Principal Engineer -Electrical



Our Team Strength



Rising Leaders







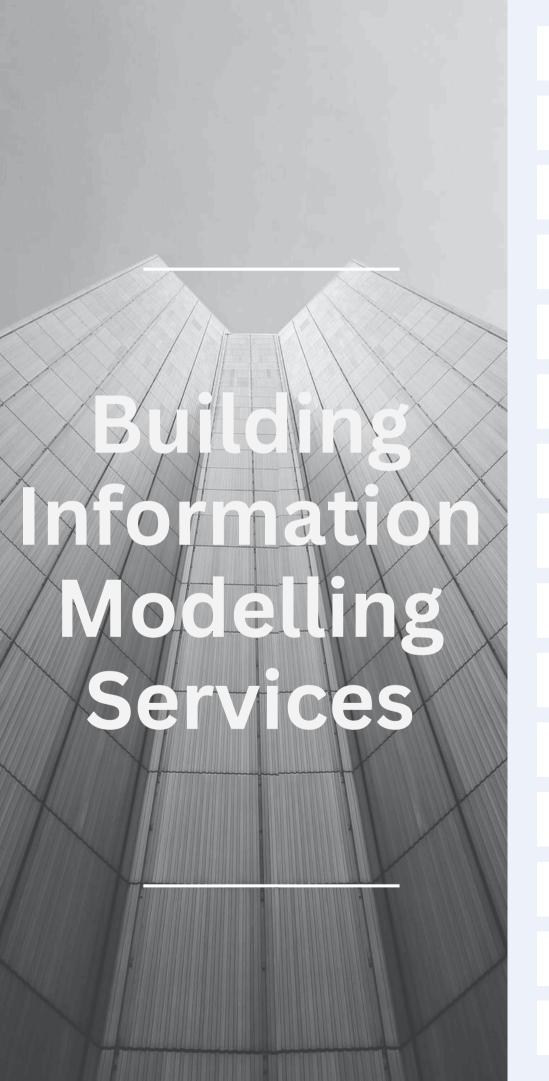












BIM TRANSFORMATION / CONSULTANCY

ARCHITECTURE MODELLING, DRAFTING & DETAILING LOD 100-400

STRUCTURE MODELLING, DRAFTING & DETAILING LOD 100-400

INTERIOR DESIGN SERVICE MODELLING, DRAFTING & DETAILING LOD 100-400

MODEL BASED QUANTITY / MATERIAL TAKE-OFF

CAD / PDF TO BIM CONVERSION

SCAN TO BIM (POINT CLOUD MODELLING SERVICES)

ARCHITECTURE - AS-BUILD AS PER SITE UPDATE

ARCHITECTURE - AS-BUILD AS PER SITE UPDATE

BIM CONTENT (REVIT FAMILY) CREATION

CONCEPT MODELLING + WALK THROUGH VIDEO CREATION

INTERIOR / EXTERIOR MODELLING & RENDERING

VR (VIRTUAL REALITY) EMBEDDED BIM MODEL VISUALIZATION

ON-SITE / OFFSITE BIM STAFFING SERVICE

BIM TRAINING

We are familiar with

The software we utilising for our projects

Design Tools

Presentation Tools

Collaboration Tool

Documentation

Management Platform







































Our Work Flow/Approach

1 Input Gathering

(BEP for Scan to BIM, Project Goal)

3

Template

Open relevant Template in Revit or Create Project Specific Template. 5

Link Point Cloud

(Recap Format)

7

Graphics Settings

Check Visibility
Graphics settings
against scanned
model

9

Quality Check

QC-1 - Self QC QC-2 - Peer QC





















2

Study

Study Point Cloud model in Autodesk Recap 4

Coordination

Check Specified project Coordinates, Unit measurement

6

Analysis

Analysis the Imported scan model in Revit 8

Tracing

Start Tracing
Arch / MEP as per
scan Model

10

Final Delivery

(Revit, PDF, CAD)



BIM Engineers, supported by in-house MEP design experts

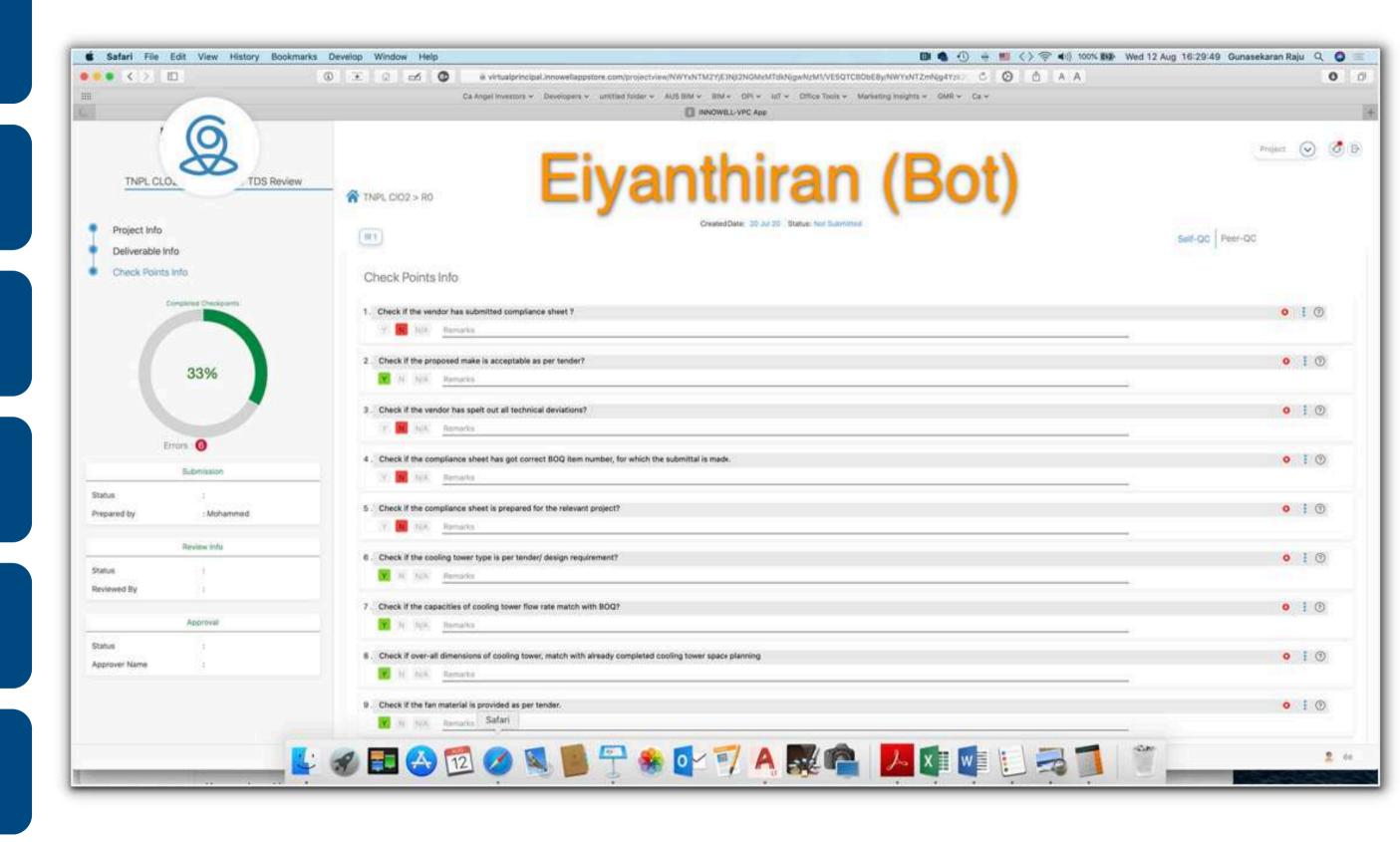
8 Years of BIM experience, early adopter

Virtual Principal Consultants - Online Quality Check platform

BIM execution plan in our own online platform

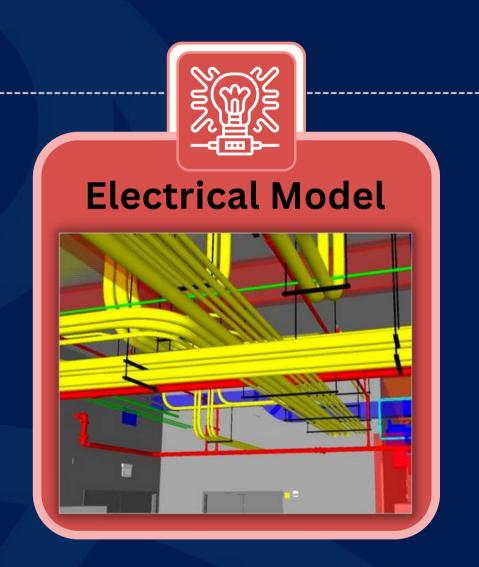
Expertise in collaborating tools (BIM 360, Revizto)

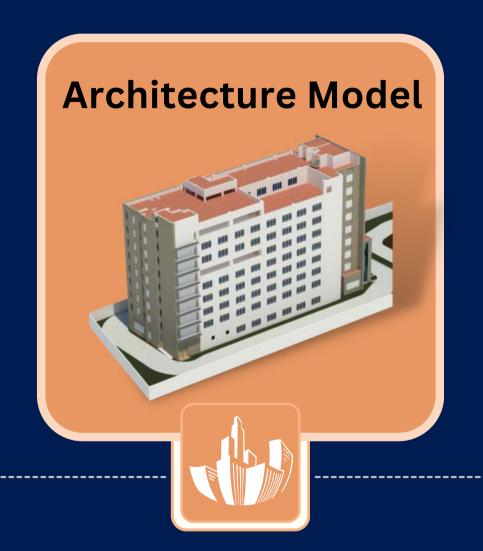
Detailed trainings manuals for our staff

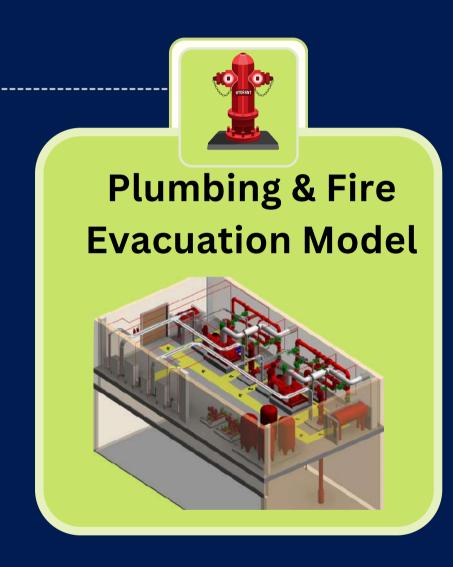


BIM Models













Elvira Tower Dubai, UAE

Size: 10,00,000 sq.ft

14 Floors

<u>Project Type:</u> Residential Building

Scope of work:

MEP BIM LOD100, 200 & 300







Address The Bay Dubai, UAE

Size: 12,00,000 sq.ft 63 Floors

<u>Project Type:</u> Residential Building

Scope of work:

MEP BIM LOD100, 200 & 300



Park Hyatt Hotel

KSA

Size: 8,00,000 sq.ft G+2+Roof

<u>Project Type:</u> Hotel Building

Scope of work:

MEP BIM LOD 200 & 300











EOME Villas

Dubai

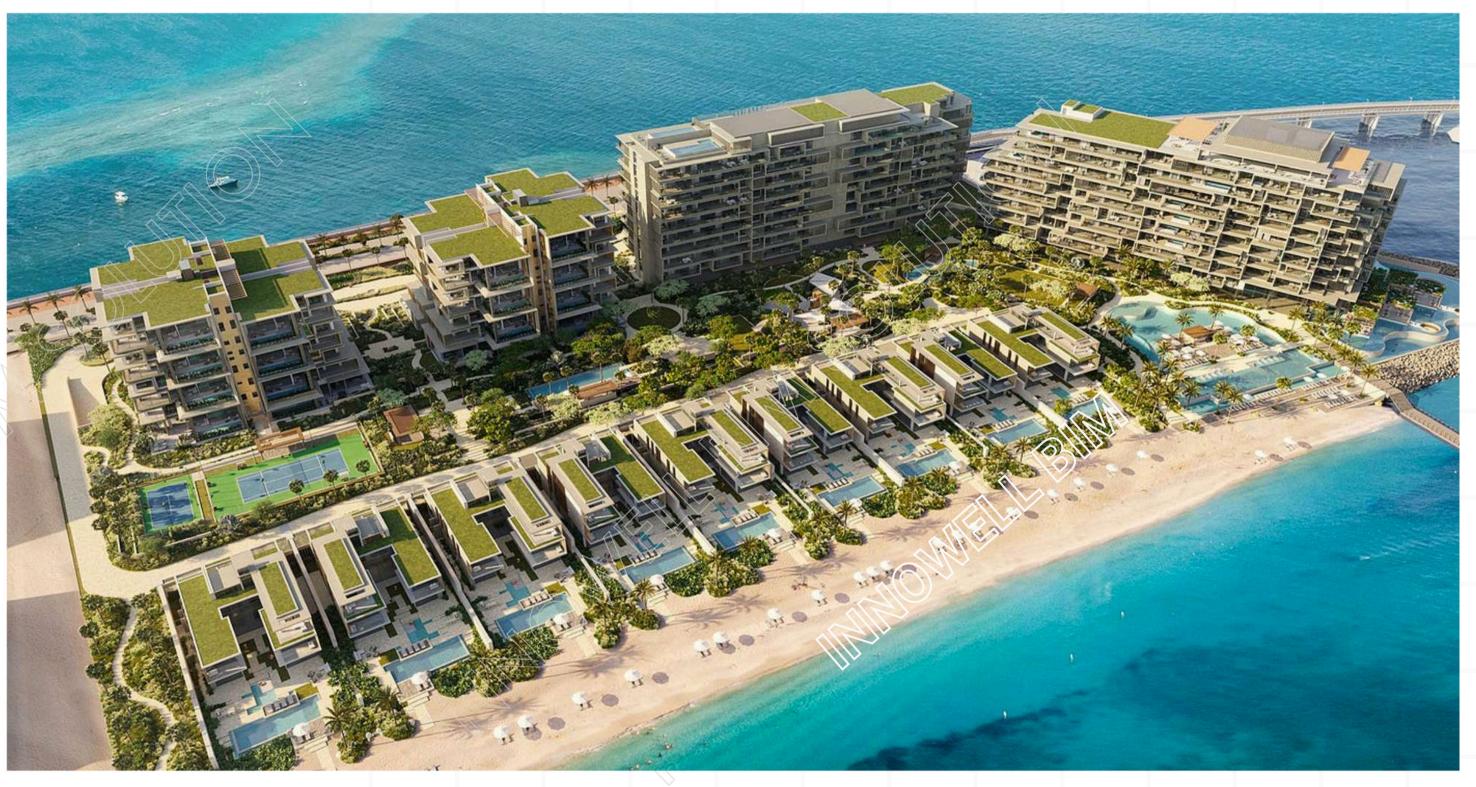
Size: 7,00,000 sq.ft

<u>Project Type:</u>
Villa Building

Scope of work:

MEP CAD IFC







KAFD Parcel A11

KSA

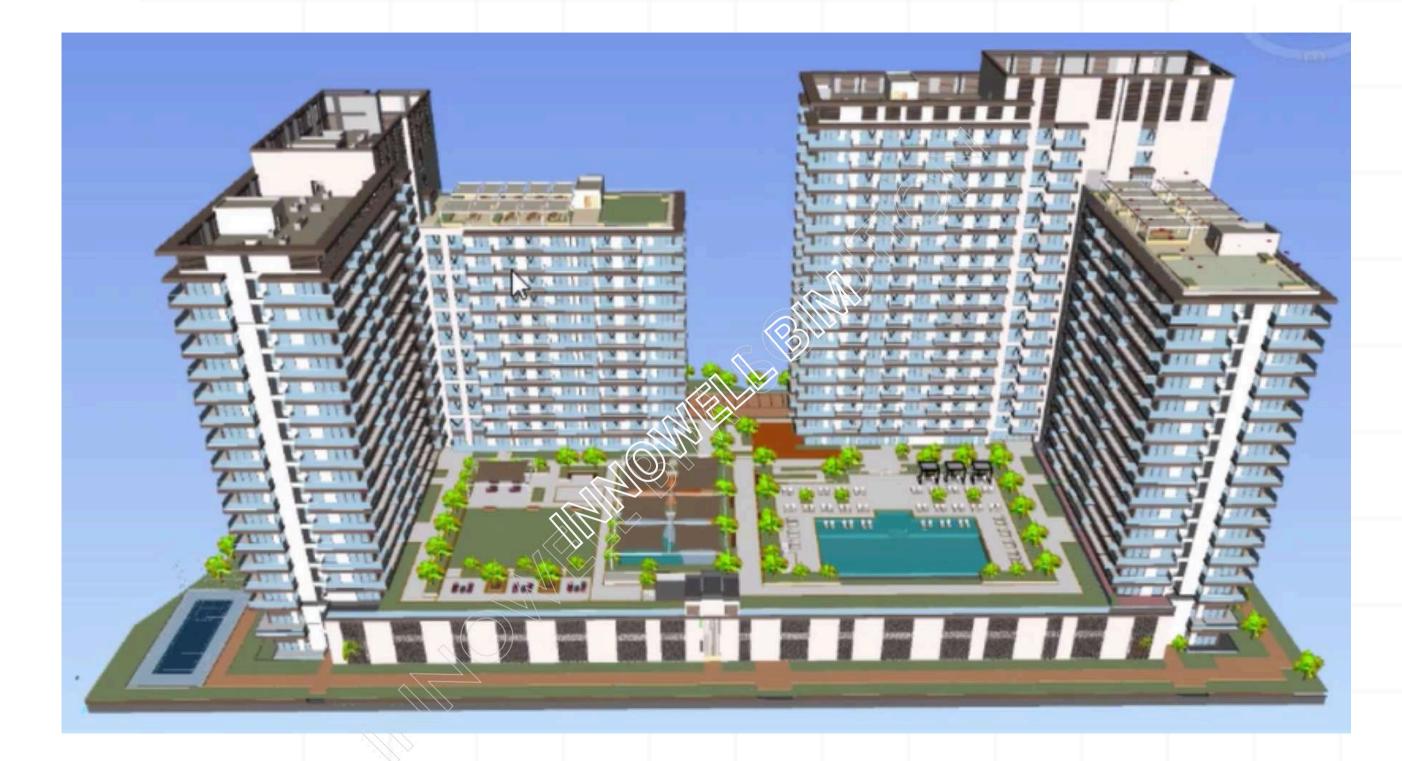
Size: 14,00,000 sq.ft

<u>Project Type:</u> Residential Building

Scope of work:

Car Park Building MEP BIM LOD200, 300 & IFC









KAFD Parcel A11

KSA

Size: 14,00,000 sq.ft

<u>Project Type:</u> Residential Building

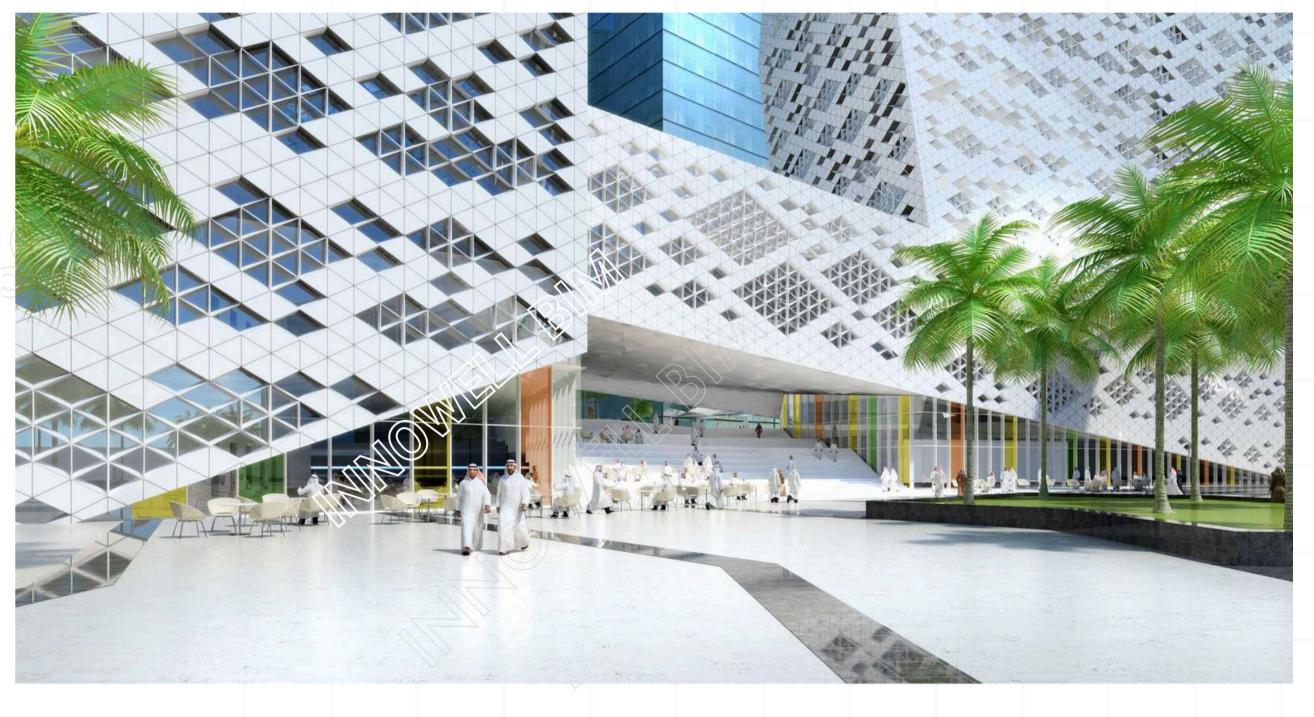
Scope of work:

Car Park Building MEP BIM LOD200, 300 & IFC











NEOM City Water Plant

KSA

Size: 10,00,000 sq.ft

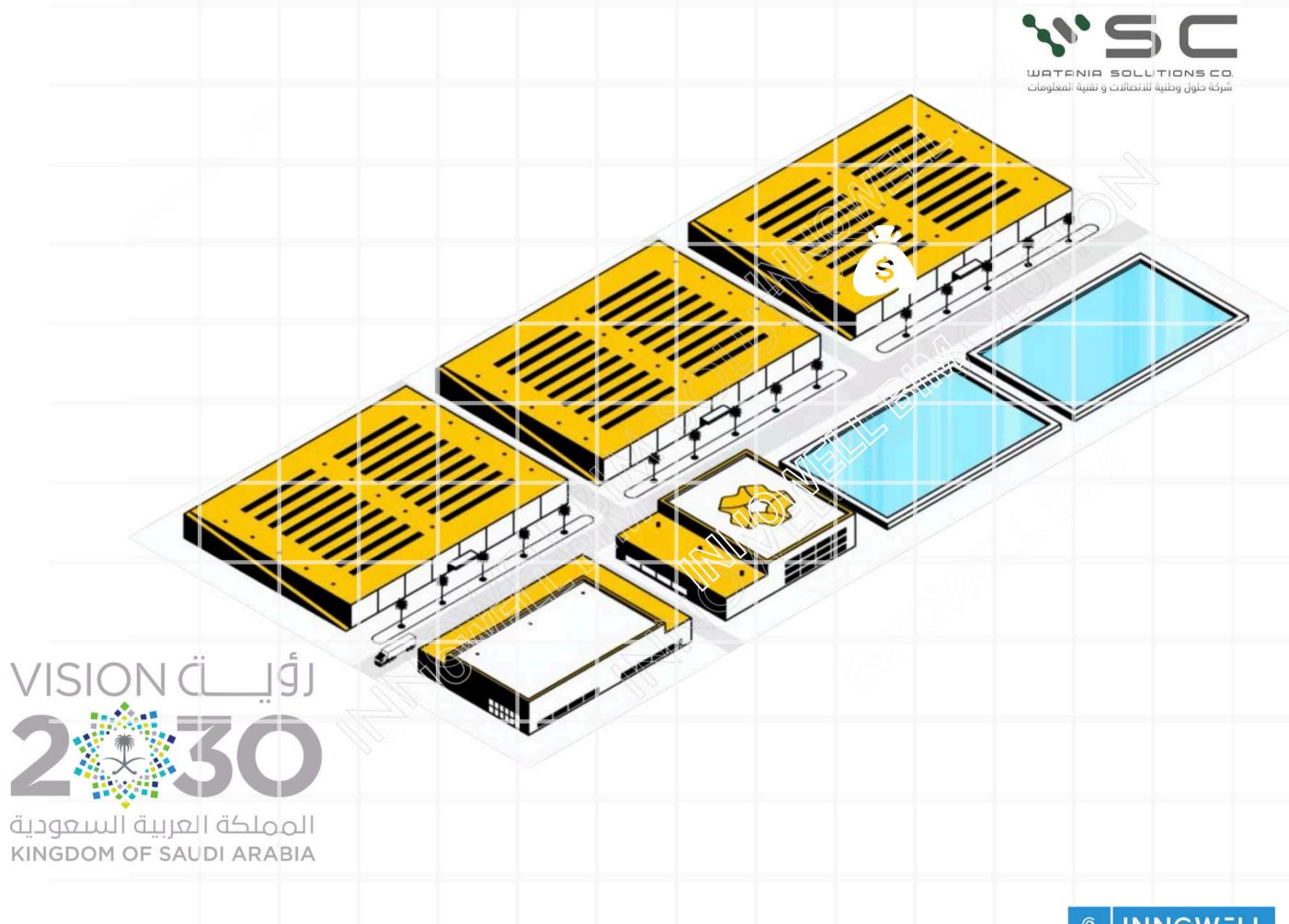
<u>Project Type:</u>
Water Plant Building

Scope of work:

SECURITY SYSTEM BIM LOD 200 & 300



NEOM





PN Composite Ltd

Bangladesh

Size: 800,000 SFT

<u>Project Type:</u> Industry

Scope of work:

MEP Process Piping Design + Asbuild





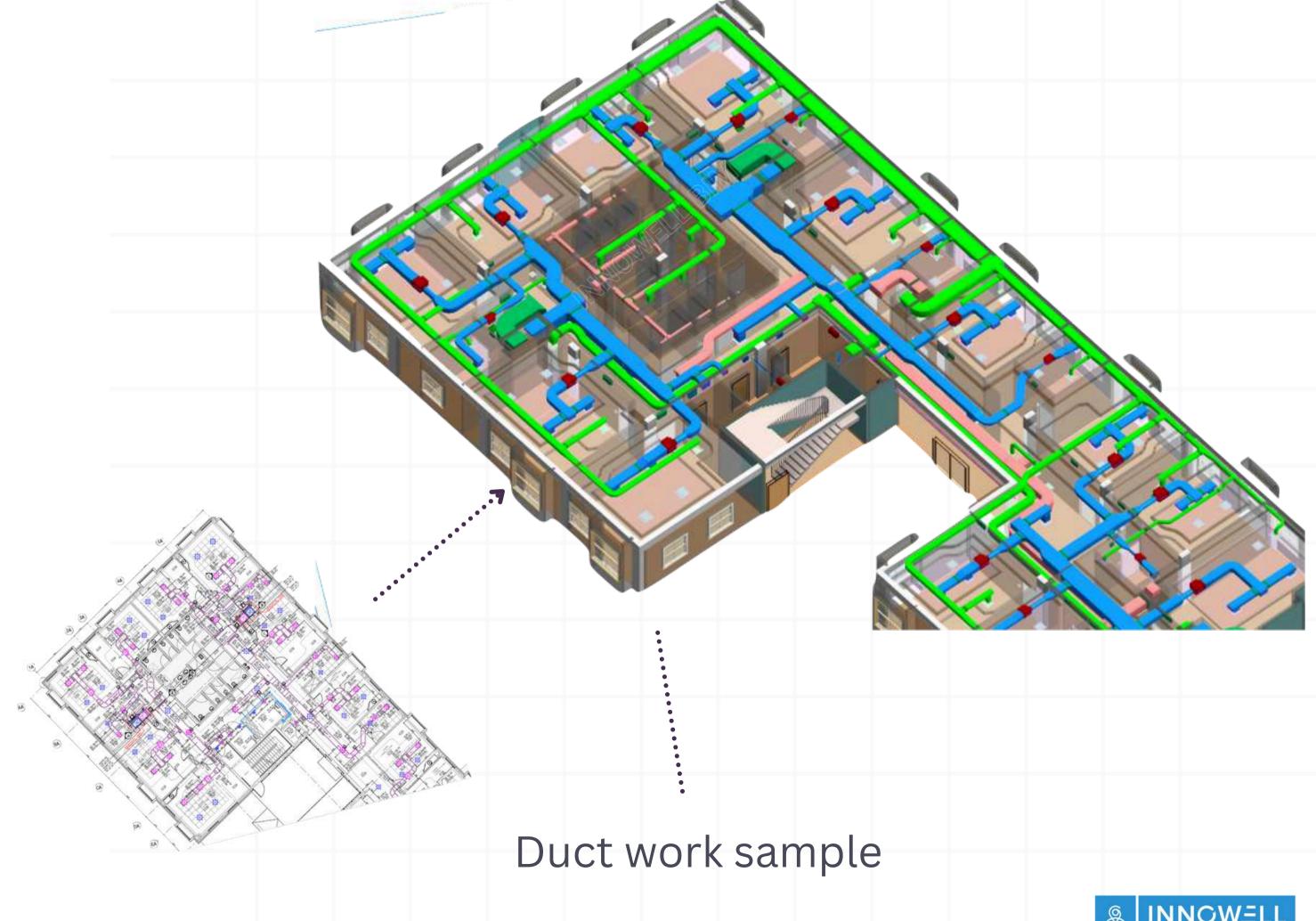
Al-Wafa School Sharjah, UAE

Size: 900,000 SFT

Project Type: Educational Building

Scope of work:

MEP Model Coordination & Quantification





Al-Wafa School Sharjah, UAE

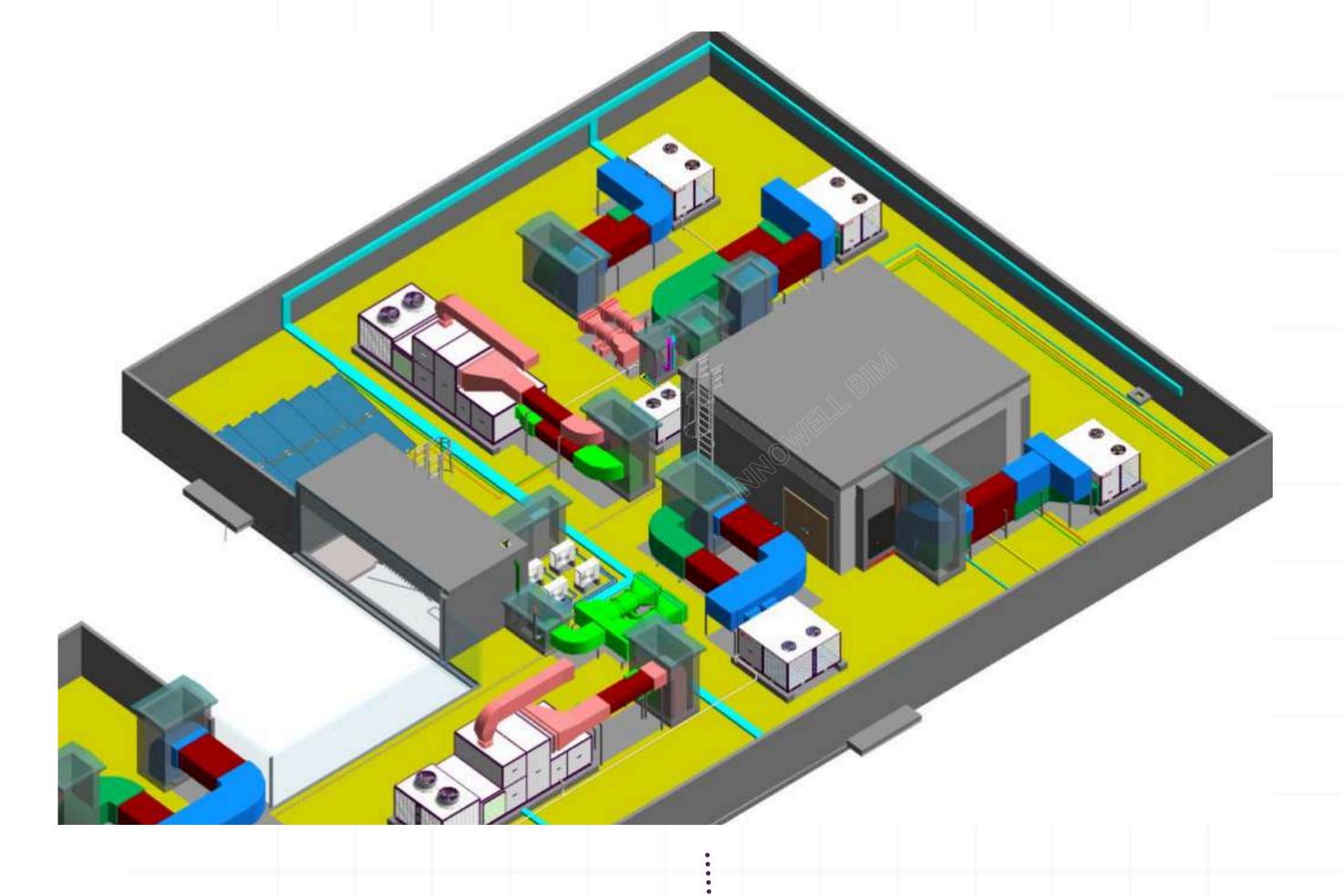
Size: 900,000 SFT

Project Type:

Educational Building

Scope of work:

MEP Model Coordination & Quantification



Roof HVAC plant to model





Al-Wafa School Sharjah, UAE

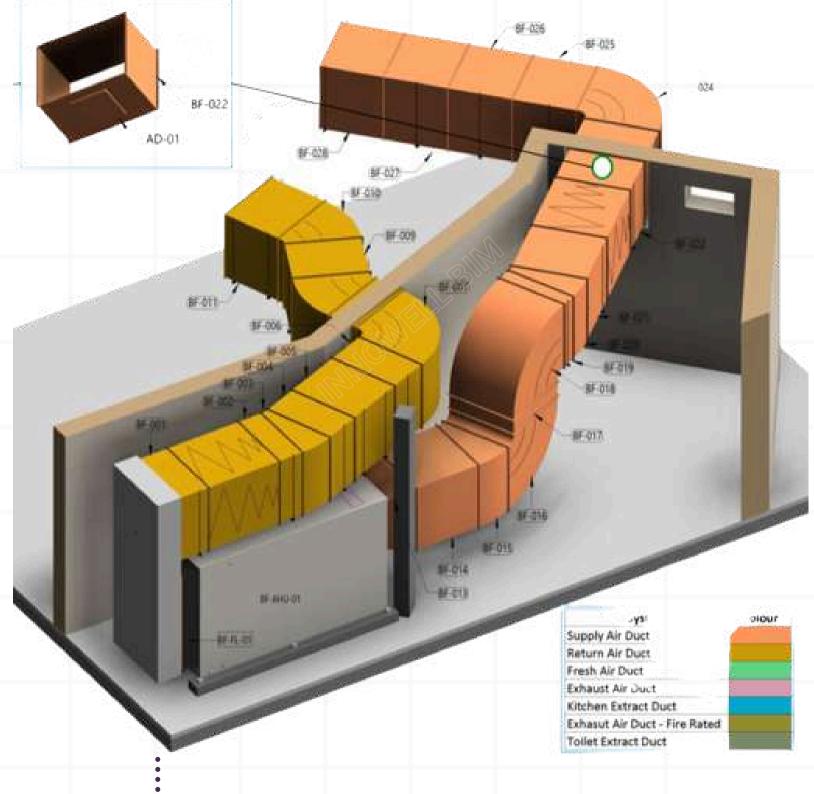
Size: 900,000 SFT

<u>Project Type:</u> Educational Building

Scope of work:

MEP Model Coordination & Quantification



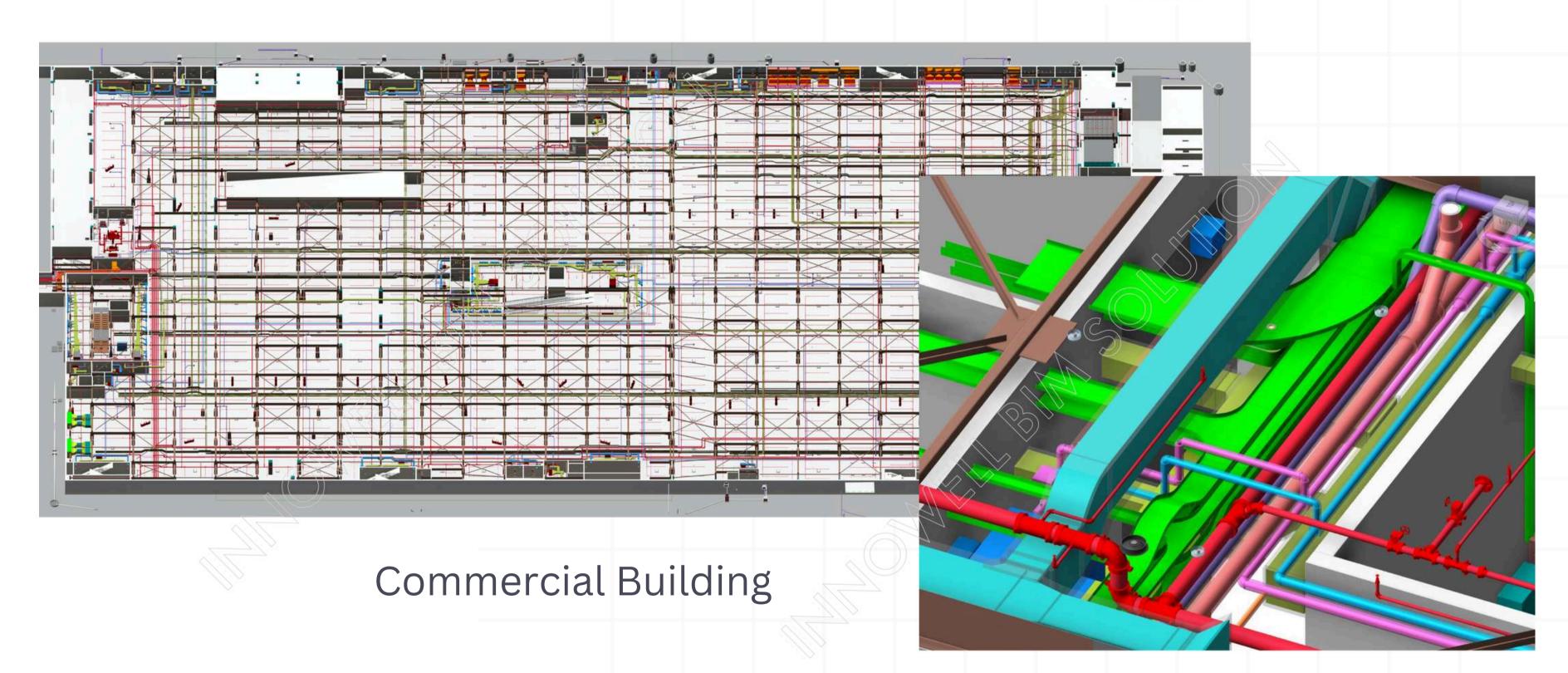


Duct work model









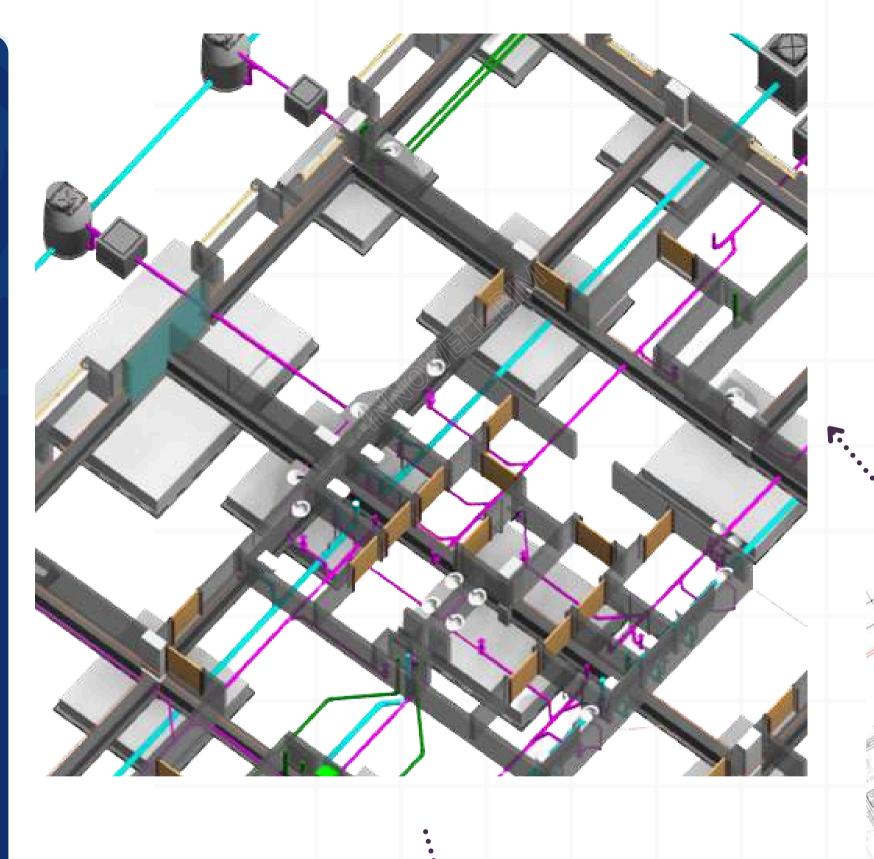


Size: 900,000 SFT

<u>Project Type:</u> Educational Building

Scope of work:

MEP Model Coordination & Quantification



Drainage Pipe Work



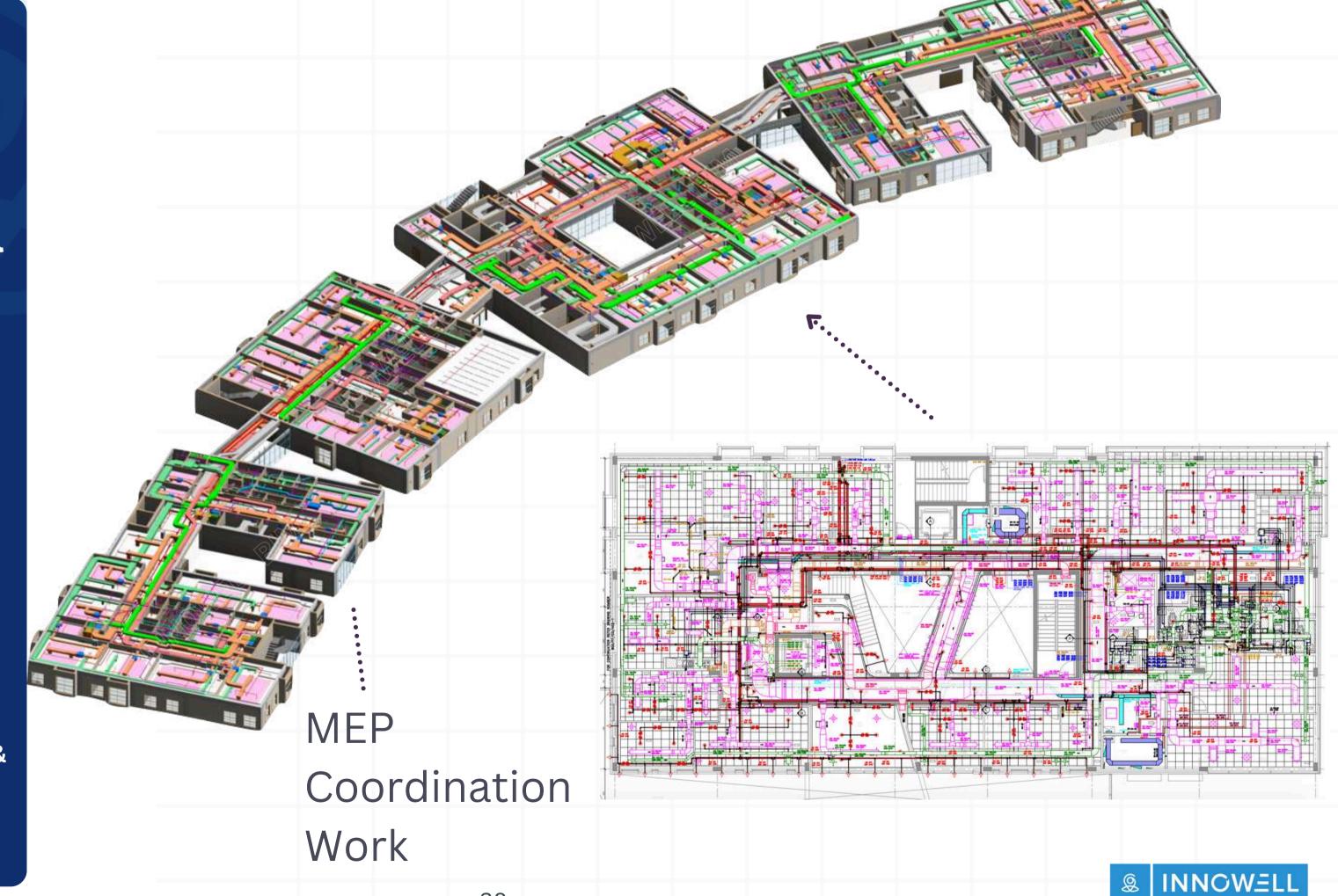


Size: 900,000 SFT

<u>Project Type:</u> Educational Building

Scope of work:

MEP Model Coordination & Quantification





Size: 900,000 SFT

<u>Project Type:</u> Educational Building

Scope of work:

MEP Model Coordination & Quantification







External Coordination





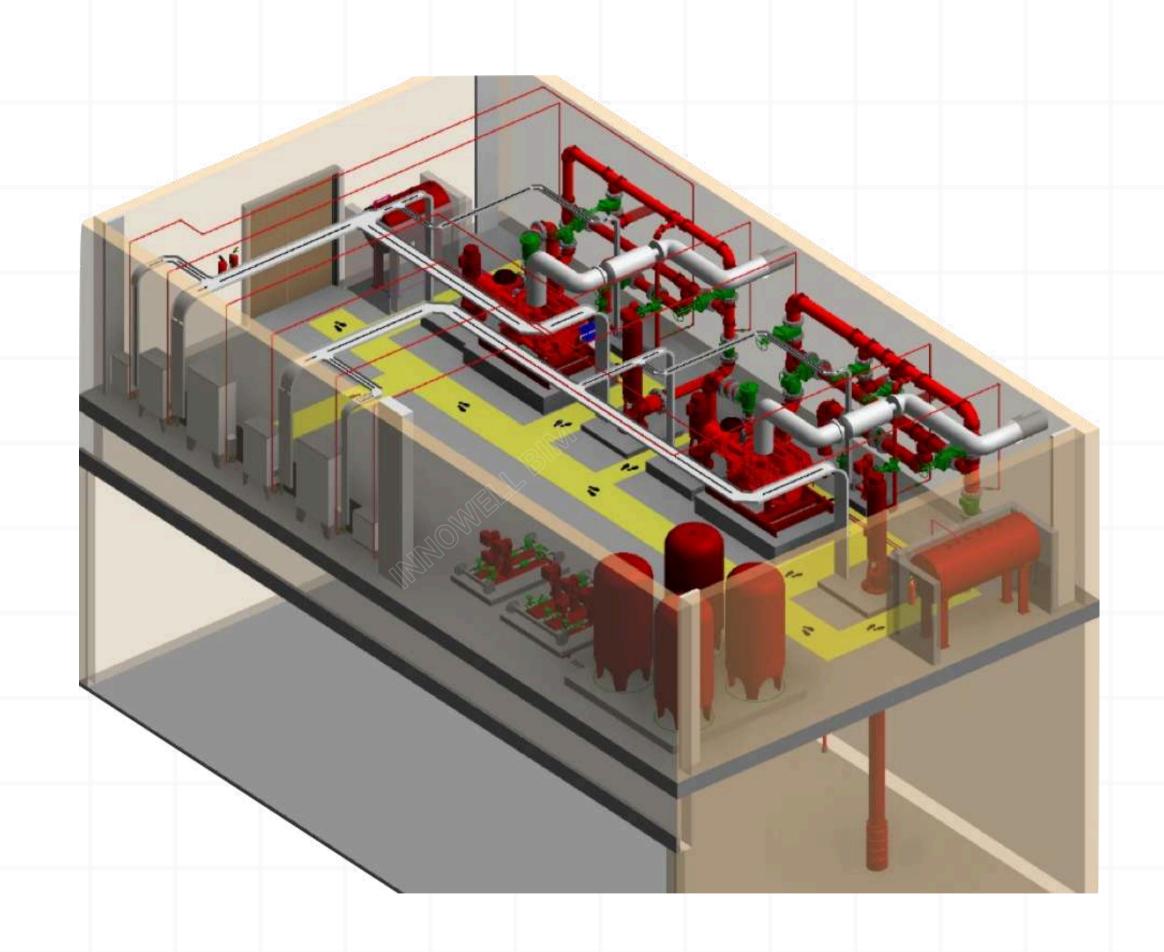
Size: 900,000 SFT

Project Type:

Educational Building

Scope of work:

MEP Model Coordination & Quantification



Fire Pump Room



BIM Model Based Automated Quantification (BOQ)

			1. Fabrication	Duct schedule			
Tag	Size	Gauge	Thickness	Length	Duct Area (Sq.m)	Count	Unit Reference
eturn Air D	uct	-0.0					
BF-001	1.4x1.4	20 G	1.00 mm	0.60	3.35	1	AHU-1
BF-002	1.4x1.4	20 G	1.00 mm	0.49	2.73	1	AHU-1
BF-004	1.4x1.4	20 G	1.00 mm	0.73	4.10	1	AHU-1
BF-005	1.4x1.4	20 G	1.00 mm	1.20	6.72	1	AHU-1
BF-006	1.4x1.4	20 G	1.00 mm	0.80	4.50	1	AHU-1
BF-009	1.4x1.4	20 G	1.00 mm	1.05	5.89	1	AHU-1
	4 4 4	00.0	1.00	1.20	6.72	1	AHU-1
BF-011	1.4x1.4	20 G	1.00 mm	1.20		7.0	Ano-i
BF-011 upply Air D	NASA 1991-19	20 G	1.00 mm	1.20	34.01	7	AHO-1
	NASA 1991-19	20 G	1.00 mm	1.20		7.0	AHU-1
upply Air D	uct				34.01	7	
upply Air D BF-014	uct 1.4x1.4	20 G	1.00 mm	1.20	34.01	7	AHU-1
upply Air D BF-014 BF-017	uct 1.4x1.4 1.4x1.4	20 G 20 G	1.00 mm 1.00 mm	1.20 0.31	34.01 6.72 1.71	7 1 1	AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019	1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28	34.01 6.72 1.71 1.58	7 1 1 1	AHU-1 AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019 BF-021	1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28 1.28	34.01 6.72 1.71 1.58 7.19	7 1 1 1 1	AHU-1 AHU-1 AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019 BF-021 BF-022	1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28 1.28 0.89	34.01 6.72 1.71 1.58 7.19 5.00	7 1 1 1 1	AHU-1 AHU-1 AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019 BF-021 BF-022 BF-023	1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G 20 G 20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28 1.28 0.89 0.55	34.01 6.72 1.71 1.58 7.19 5.00 3.09	7 1 1 1 1 1 1	AHU-1 AHU-1 AHU-1 AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019 BF-021 BF-022 BF-023 BF-025	1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G 20 G 20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28 1.28 0.89 0.55 1.20	34.01 6.72 1.71 1.58 7.19 5.00 3.09 6.72	7 1 1 1 1 1 1	AHU-1 AHU-1 AHU-1 AHU-1 AHU-1 AHU-1
upply Air D BF-014 BF-017 BF-019 BF-021 BF-022 BF-023 BF-025 BF-026	1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G 20 G 20 G 20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm 1.00 mm	1.20 0.31 0.28 1.28 0.89 0.55 1.20	34.01 6.72 1.71 1.58 7.19 5.00 3.09 6.72 6.72	7 1 1 1 1 1 1 1	AHU-1 AHU-1 AHU-1 AHU-1 AHU-1 AHU-1 AHU-1

1. Fabrication Duct schedule								
Tag	Size	Gauge	Thickness	Length	Duct Area (Sq.m)	Count	Unit Reference	
Return Air D	uct							
BF-001	1.4x1.4	20 G	1.00 mm	0.60	3.35	1	AHU-1	
BF-002	1.4x1.4	20 G	1.00 mm	0.49	2.73	1	AHU-1	
BF-004	1.4x1.4	20 G	1.00 mm	0.73	4.10	1	AHU-1	
BF-005	1.4x1.4	20 G	1.00 mm	1.20	6.72	1	AHU-1	
BF-006	1.4x1.4	20 G	1.00 mm	0.80	4.50	1	AHU-1	
BF-009	1.4x1.4	20 G	1.00 mm	1.05	5.89	1	AHU-1	
BF-011	1.4x1.4	20 G	1.00 mm	1.20	6.72	1	AHU-1	
Supply Air D	A STATE OF THE PARTY OF THE PAR	20 G	1 00 mm	1 20	6.72	1	AHIL-1	
BF-014	1.4x1.4	20 G	1.00 mm	1.20	6.72	1	AHU-1	
BF-017	1.4x1.4	20 G	1.00 mm	0.31	1.71	1	AHU-1	
BF-019	1.4x1.4	20 G	1.00 mm	0.28	1.58	1	AHU-1	
BF-021	1.4x1.4	20 G	1.00 mm	1.28	7.19	1	AHU-1	
BF-022	1.4x1.4	20 G	1.00 mm	0.89	5.00	1	AHU-1	
The state of the s							Ano-i	
BF-023	1.4x1.4	20 G	1.00 mm	0.55	3.09	1	AHU-1	
CONTRACTOR OF THE PERSON OF TH	1.4x1.4 1.4x1.4	20 G 20 G	1.00 mm 1.00 mm	0.55 1.20	3.09 6.72	1	0.0000000000000000000000000000000000000	
BF-023							AHU-1	
BF-023 BF-025	1.4x1.4	20 G	1.00 mm	1.20	6.72	1	AHU-1 AHU-1	
BF-023 BF-025 BF-026	1.4x1.4 1.4x1.4	20 G 20 G	1.00 mm 1.00 mm	1.20 1.20	6.72 6.72	1	AHU-1 AHU-1 AHU-1	
BF-023 BF-025 BF-026 BF-027	1.4x1.4 1.4x1.4 1.4x1.4	20 G 20 G 20 G	1.00 mm 1.00 mm 1.00 mm	1.20 1.20 1.20	6.72 6.72 6.72	1 1 1	AHU-1 AHU-1 AHU-1 AHU-1	

	FPS PIPE FI	TTING SCHEDULE		
DESCRIPTION	SIZE (DIA)	UNIT COST (NOS)	QTY	TOTAL COST
END CAP				110
END CAP	40ø	400	1	400
GROOVED COUPLING	***	19		137
GROOVED COUPLING	100ø-100ø	100	21	2100
GROOVED ELBOW				
GROOVED ELBOW	100ø-100ø	150	7	1050
GROOVED REDUCING TEE				
GROOVED REDUCING TEE	100ø-100ø-20ø	200	2	400
GROOVED REDUCING TEE	100ø-100ø-40ø	250	1	250
THREADED REDUCER	1.00	*		11/4
THREADED REDUCER	40ø-20ø	400	1	400
THREADED TEE				1
THREADED TEE	40ø-40ø-20ø	400	5	2000
THREADED TEE	40ø-40ø-40ø	400	1	400
THREAED ELBOW		918	115	
THREAED ELBOW	20ø-20ø	350	11	3850
THREAED ELBOW	40ø-40ø	400	4	1600

1.	Sound Attenua	tor Schedule		
System	Tag	Size (WxHxL)	Count	Floor Reference
Fresh Air Duct				
Fresh Air Duct	ATT-05	0.5x0.4x0.5	1	Basement
Return Air Duct	1			
Return Air Duct	ATT-02	1.0x0.6x1.0	1	Basement
Return Air Duct	ATT-04	0.4x0.4x1.0	1	Basement
Return Air Duct	ATT-01	1.4x1.4x1.5	1	Basement
Supply Air Duct				
Supply Air Duct	ATT-03	1.4x1.4x1.5	1	Basement

FPS PIPE SCHEDULE					
MATERIAL	SIZE	LENGTH (m)	UNIT COST (RMT)	TOTAL COST	
CAST IRON	20ø	12.4	150	1,854	
CAST IRON	40ø	14.3	400	5,715	
CAST IRON	100ø	16.4	550	8,999	

WATER SUPPLY PIPE SCHEDULE						
PIPE MATERIAL	SIZE	LENGTH (m)	UNIT COST (RMT)	TOTAL COST		
PPR	25ø	62.1	150	9,312		
PPR	40ø	25.3	200	5,053		
PPR	50ø	25.0	250	6,250		
PPR	80ø	0.7	300	217		

MATERIAL	SIZE (DIA)	ANGLE	UNIT COST (NOS)	QTY	TOTAL COST
ELBOW	0.22 (0.11)	1111022	Simi cool (mos)	~	1.02000
PPR	25ø-25ø	24°	200	2	400
PPR	25ø-25ø	34°	250	2	500
PPR	25ø-25ø	45°	250	2	500
PPR	25ø-25ø	76°	300	2	600
PPR	25ø-25ø	90°	400	16	6400
PPR	40ø-40ø	23°	450	1	450
PPR	40ø-40ø	43°	450	1	450
PPR	40ø-40ø	90°	450	11	4950
PPR	50ø-50ø	24°	500	1	500
PPR	50ø-50ø	34°	500	1	500
PPR	50ø-50ø	42°	500	2	1000
PPR	50ø-50ø	45°	500	1	500
PPR	50ø-50ø	90°	500	8	4000
ND CAP					
PPR	50ø		250	2	500
PPR	80ø		800	1	800
REDUCER		-12			COOR COOR
PPR	40ø-25ø		400	2	800
PPR	50ø-40ø		350	4	1400
PPR	80ø-40ø		400	1	400
PPR	80ø-50ø		350	1	350
EE			**		4451
PPR	25ø-25ø-25ø		250	2	500
PPR	40ø-40ø-40ø		400	2	800
PPR	50ø-50ø-40ø		450	4	1800
PPR	50ø-50ø-50ø		500	1	500
PPR	80ø-80ø-50ø		500	4	2000



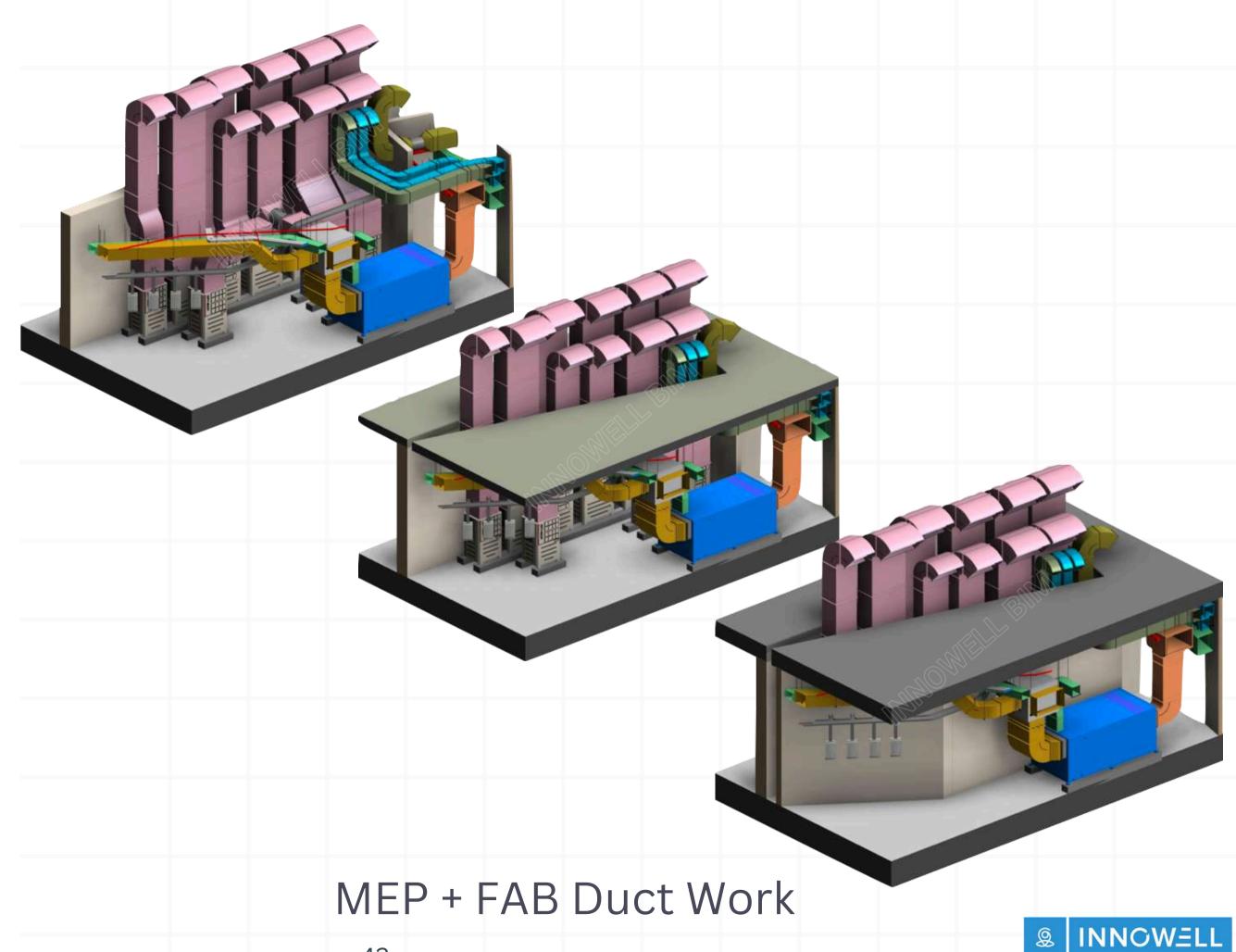


Size: 900,000 SFT

<u>Project Type:</u> Educational Building

Scope of work:

MEP Model Coordination & Quantification



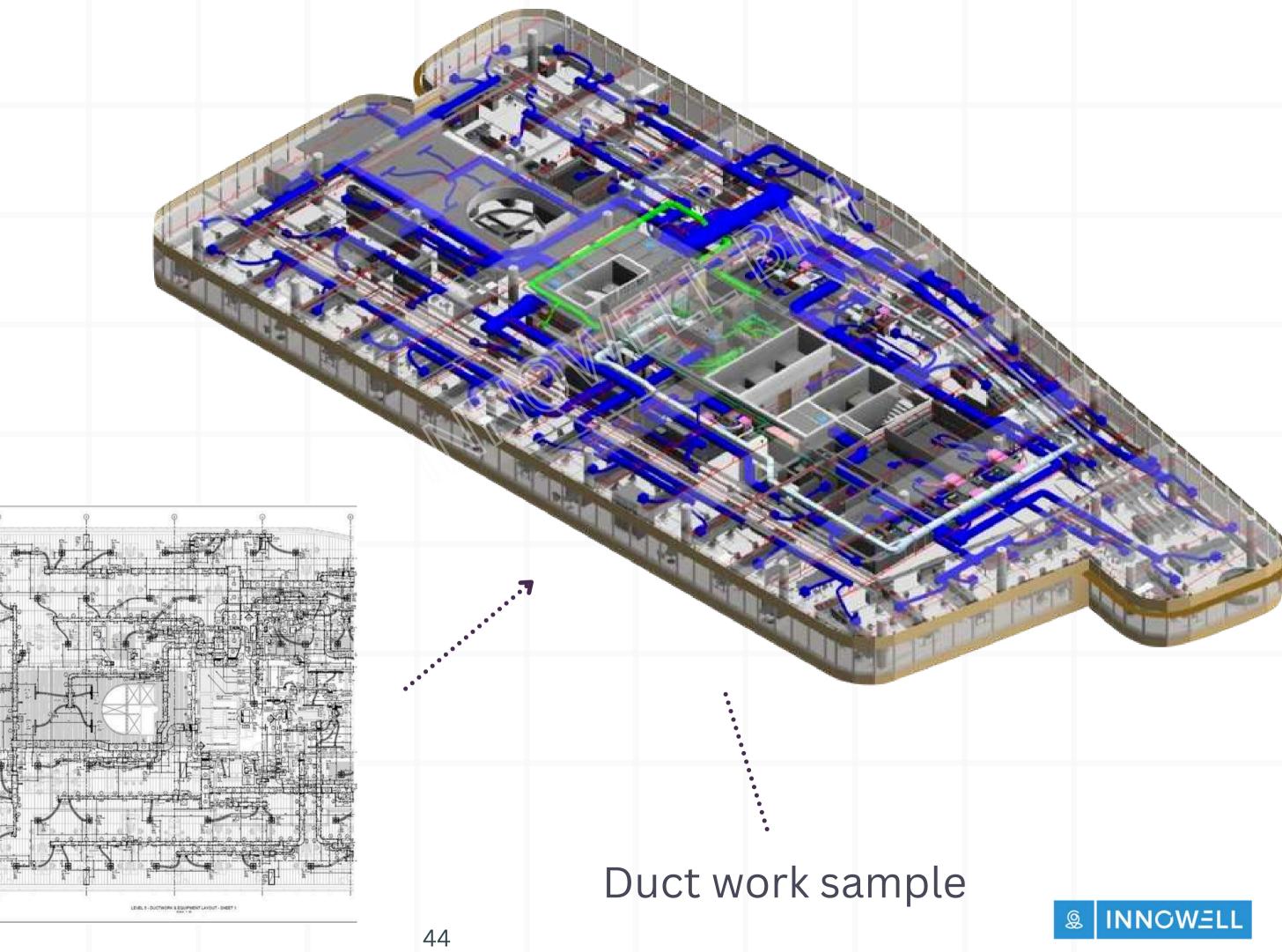


East Co Development AZ

Office Building 5,00,000 SFT

Scope of work:

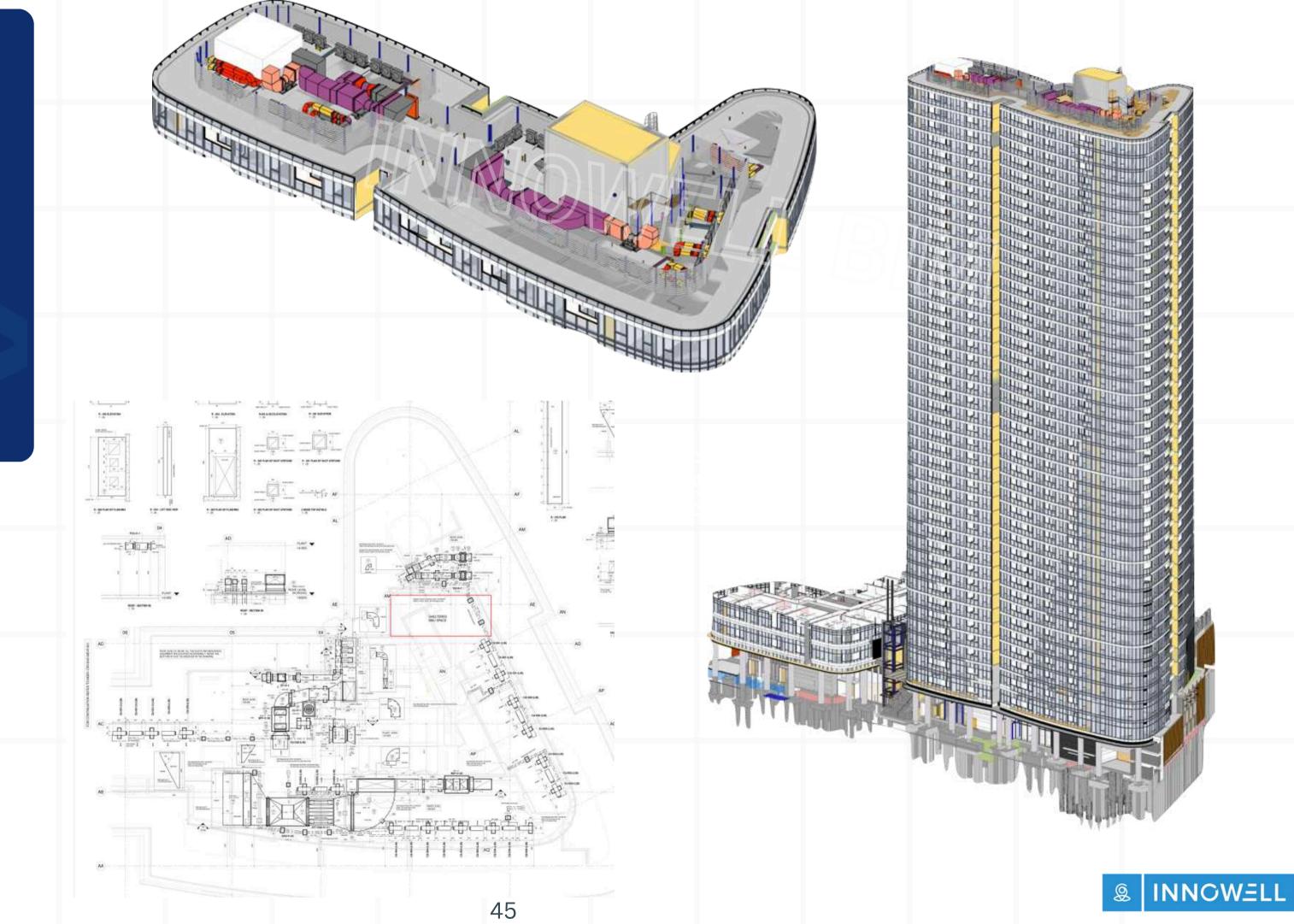
DUCT WORK-LOD400 (FABRICATION)



<u>Project Type:</u> Residential Building

Scope of work:

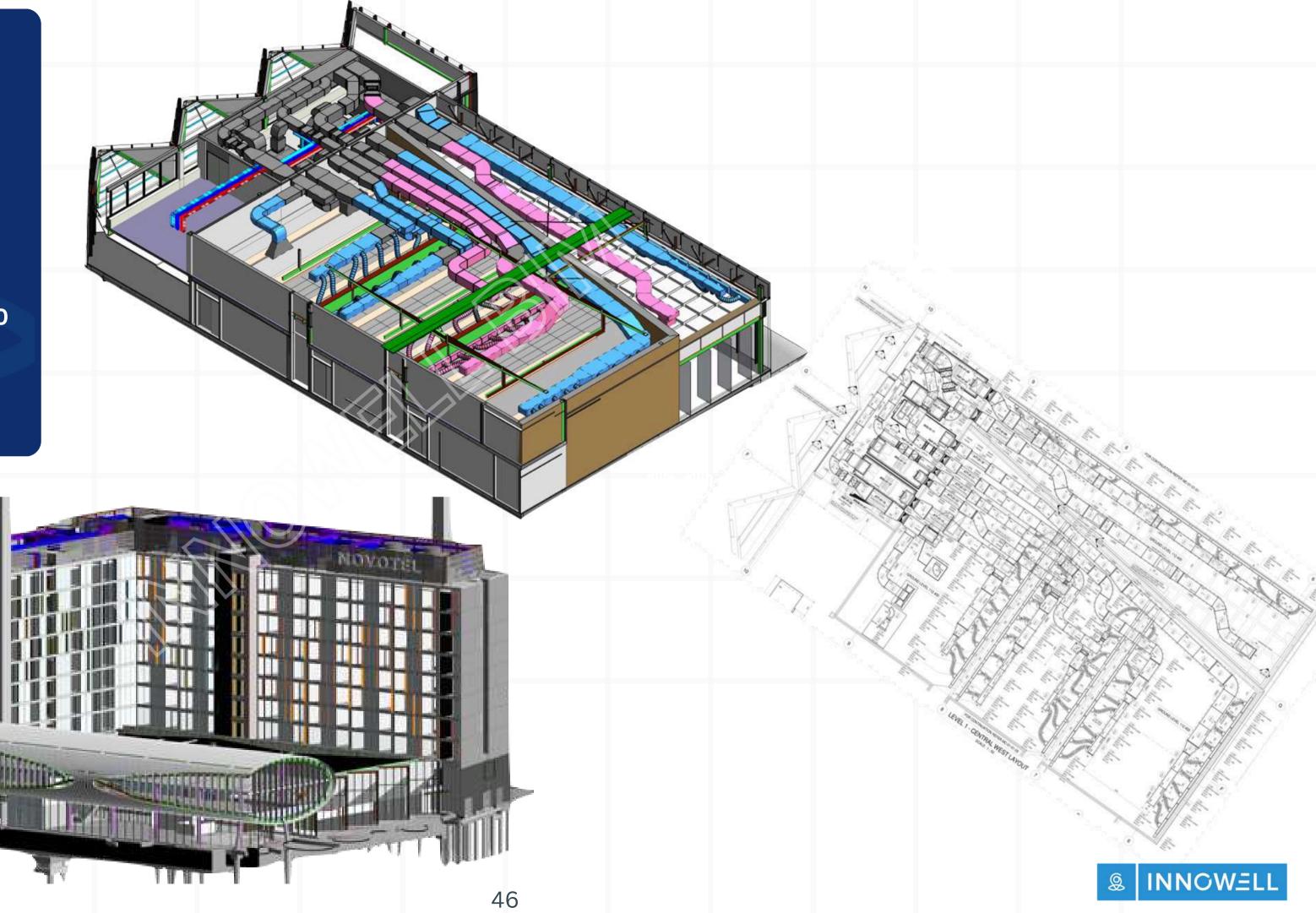
DUCT WORK-LOD400 (FABRICATION)





Scope of work:

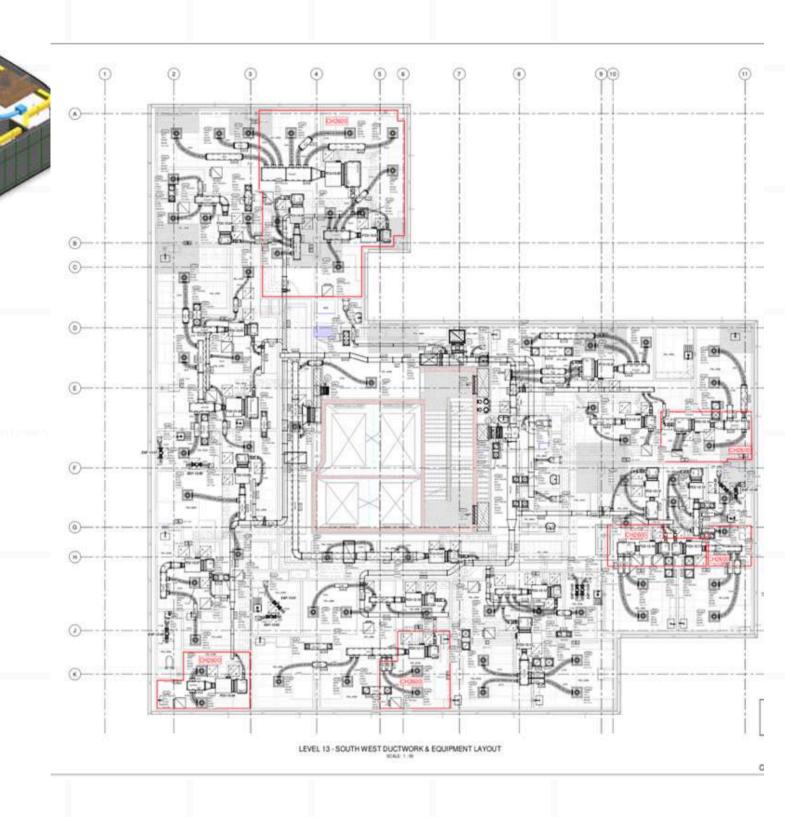
DUCT WORK-LOD400 (FABRICATION)



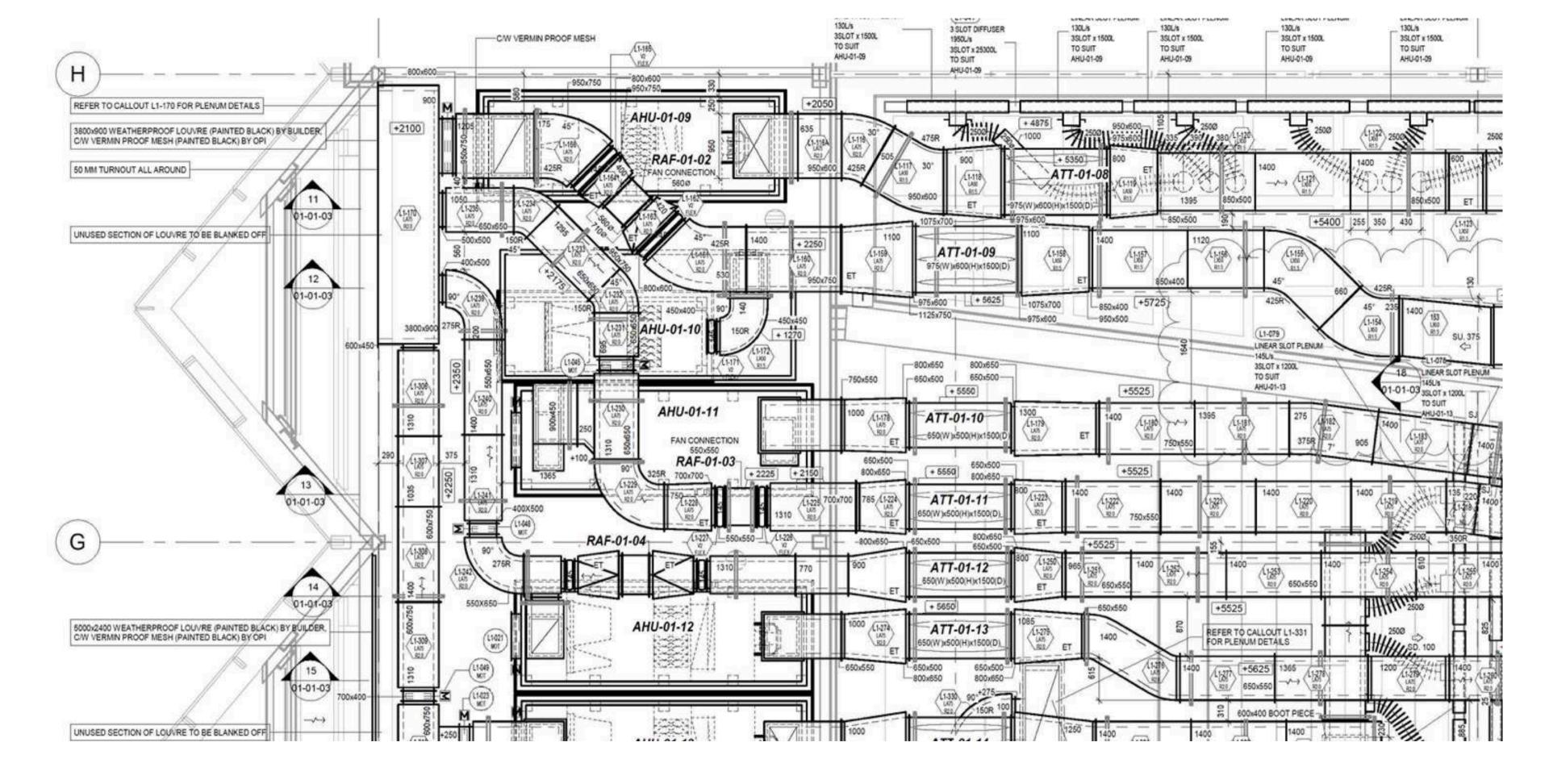


Scope of work:

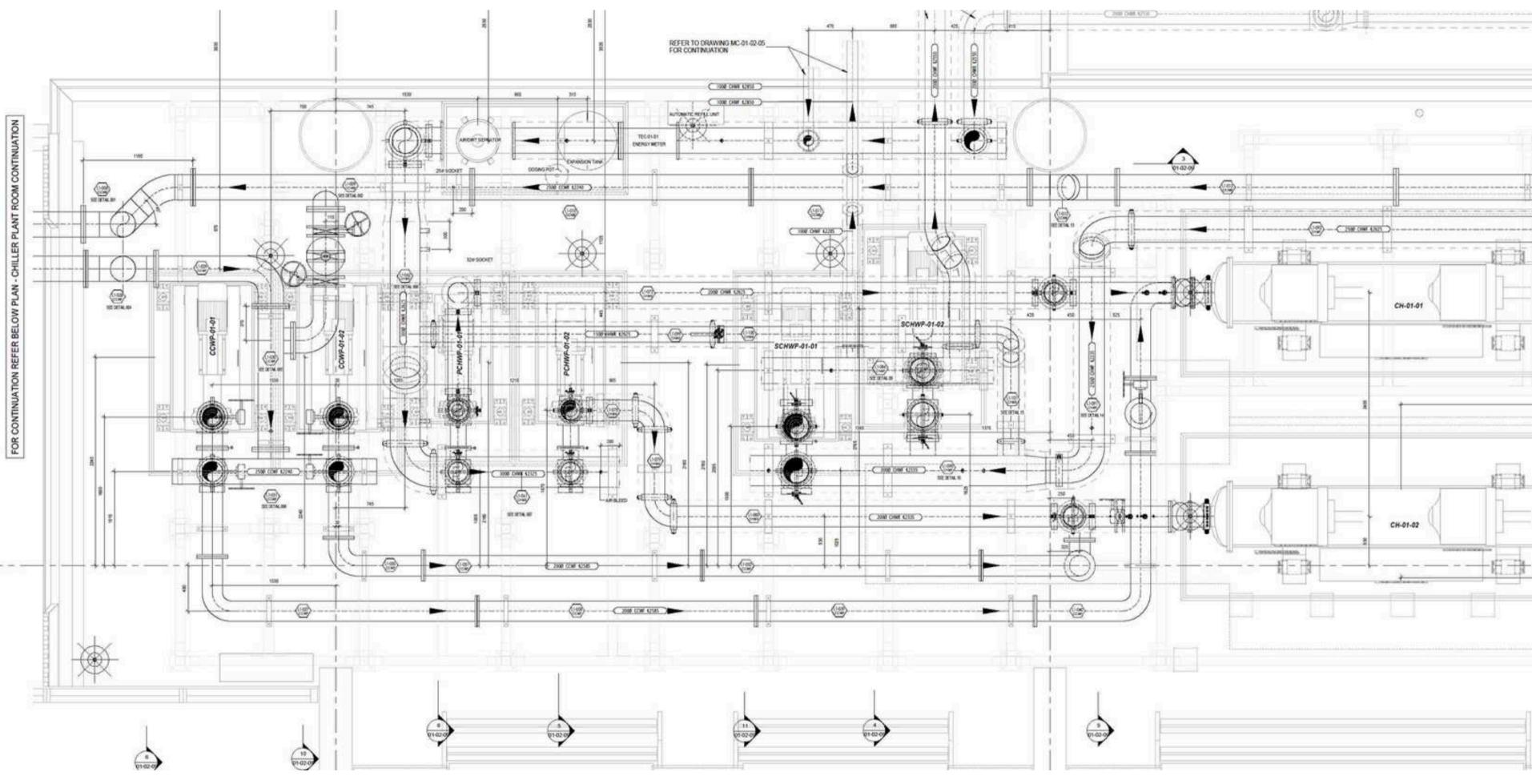
DUCT WORK-LOD400 (FABRICATION)





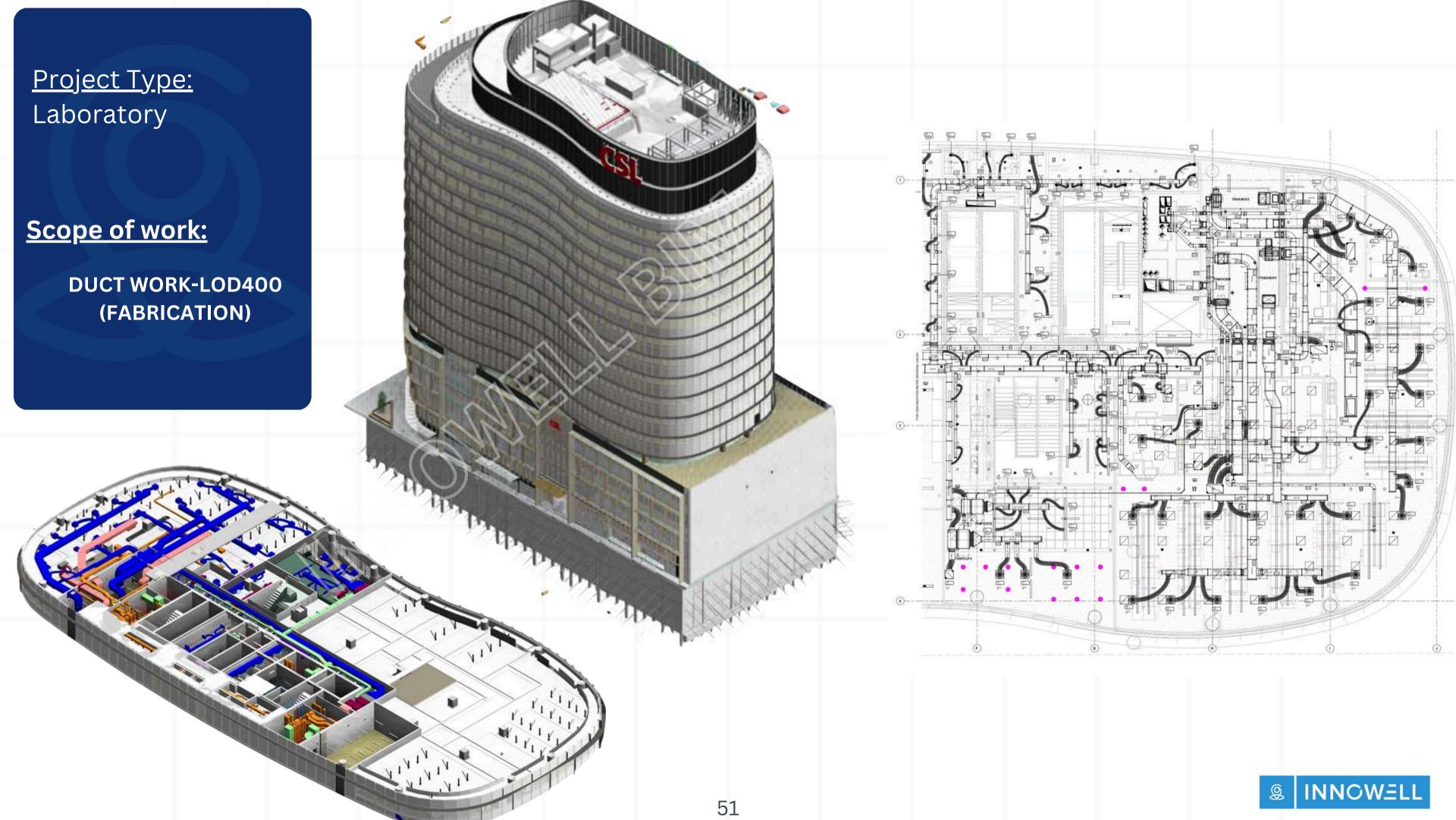


Ducting layout with piece marking for fabrication



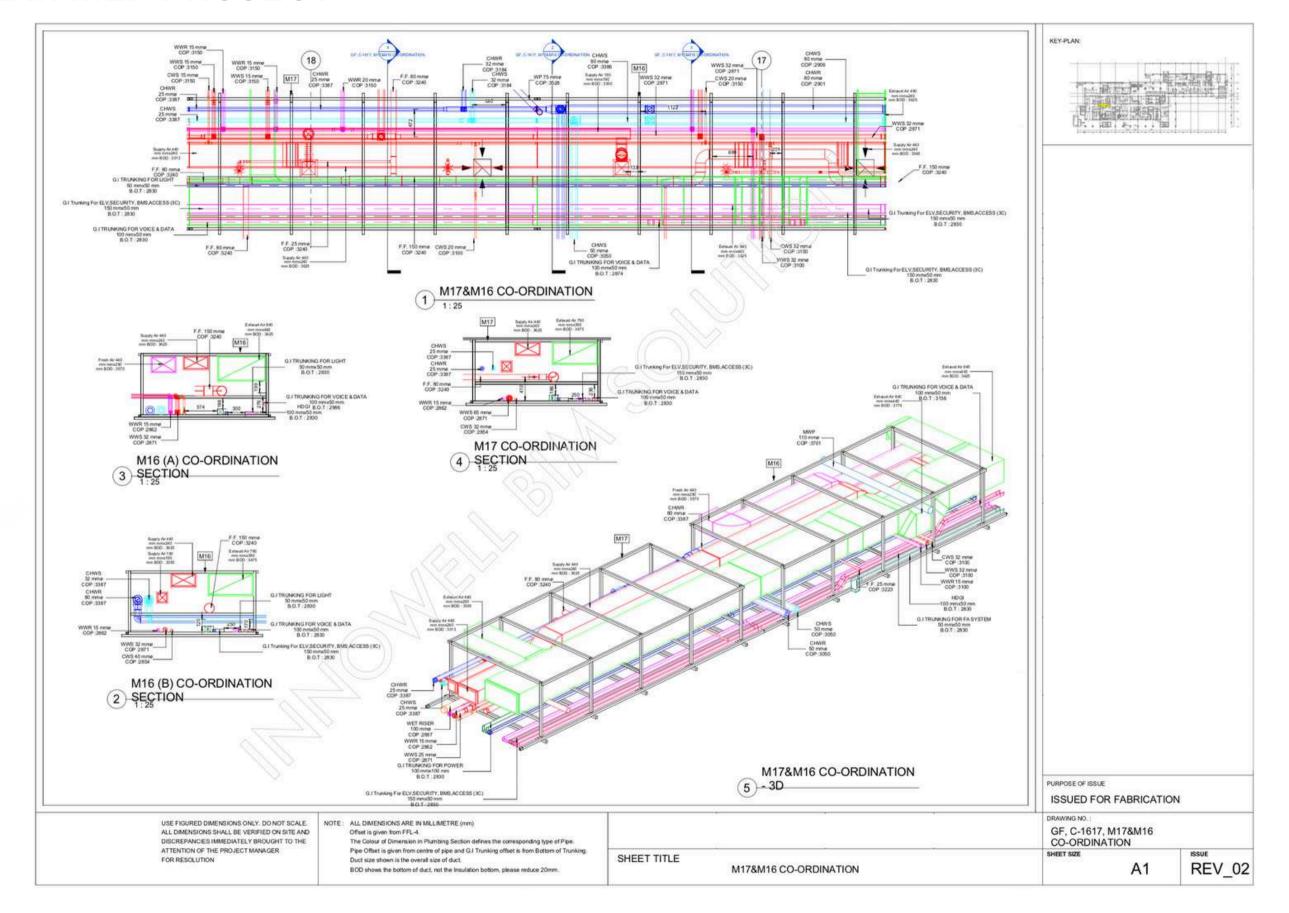
Chiller Plant Room - Plan





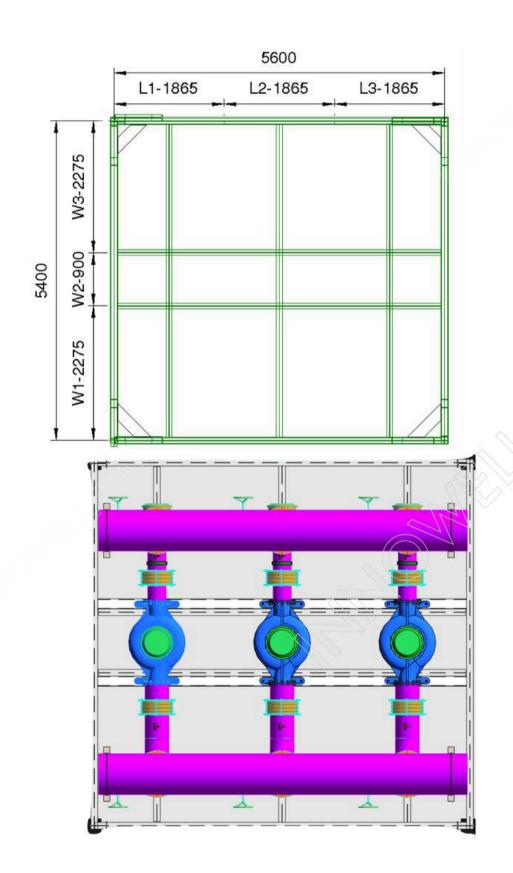
MODULAR MEP PROJECT

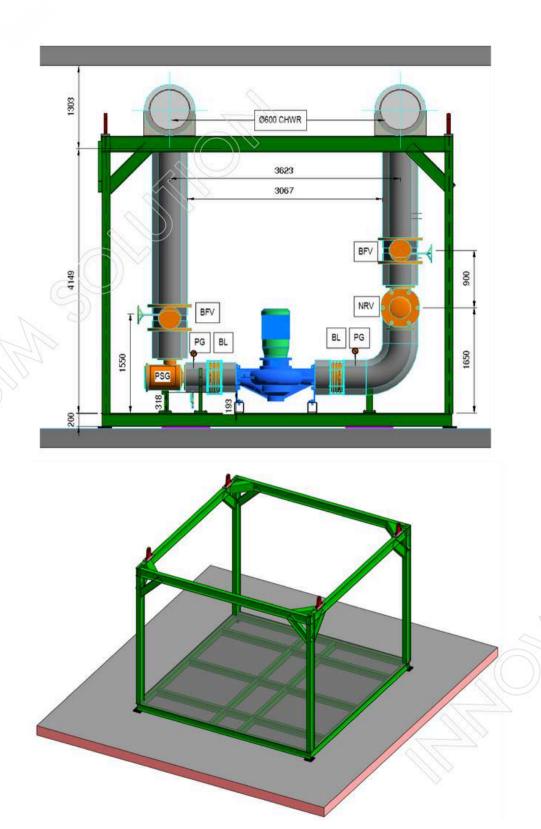


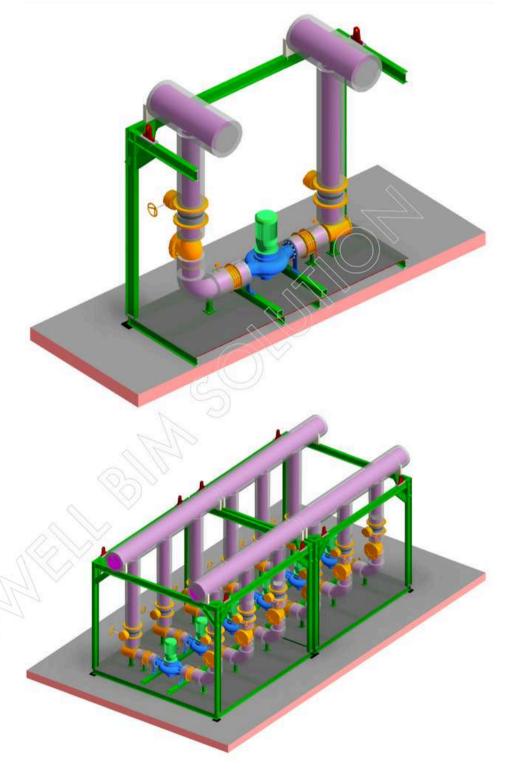


PUMP SKID MODELS















HP Enterprise

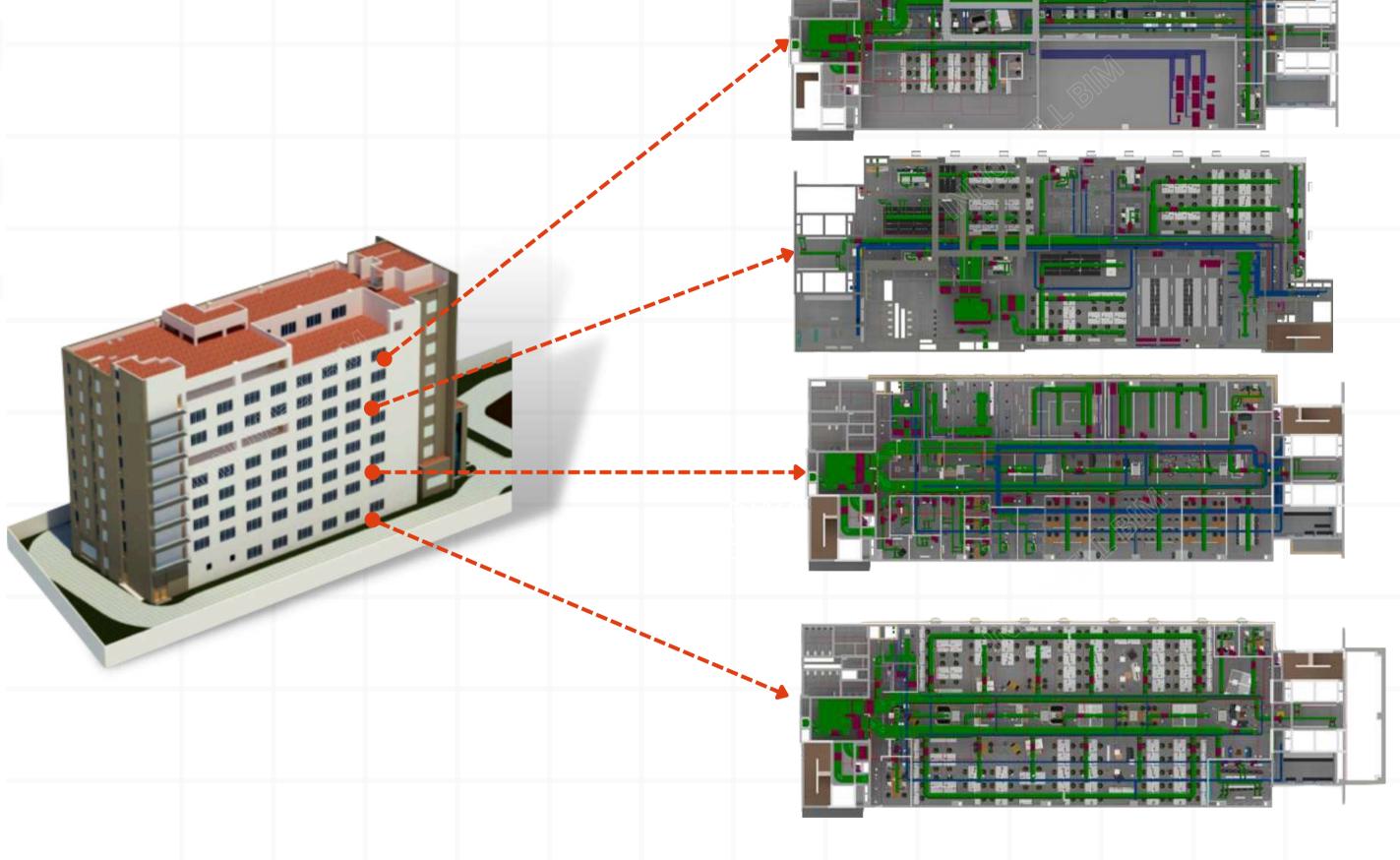
India

Size: 170,000 SFT

<u>Project Type:</u> Office Building

Scope of work:

MEP Design,
Model Coordination
& Quantification



MEP Model - LOD - 300





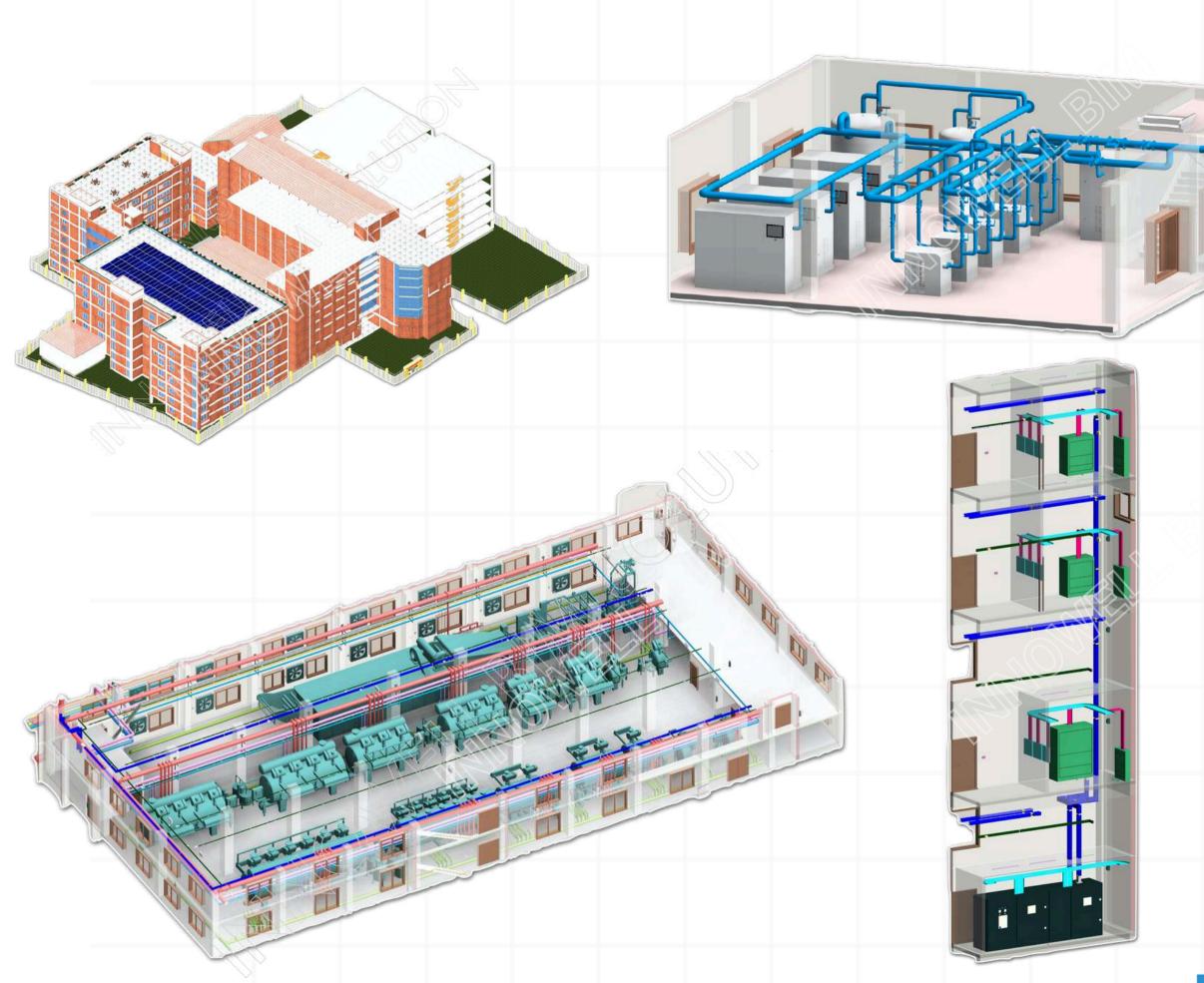
PN Composite Ltd Bangladesh

Size: 800,000 SFT

<u>Project Type:</u> Industry

Scope of work:

MEP Process Piping Design + Asbuild





ZOHO South Plaza,

Chennai, India

Size: 500,000 SFT

<u>Project Type:</u> Office Building

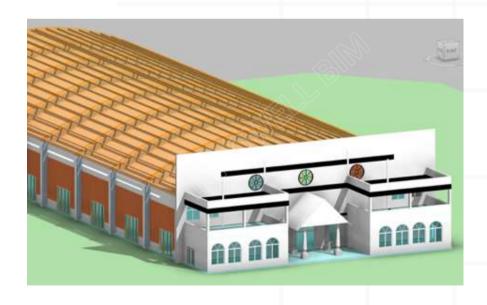
Scope of work:

HVAC Modelling













HVAC Design





DELL Crystal Down

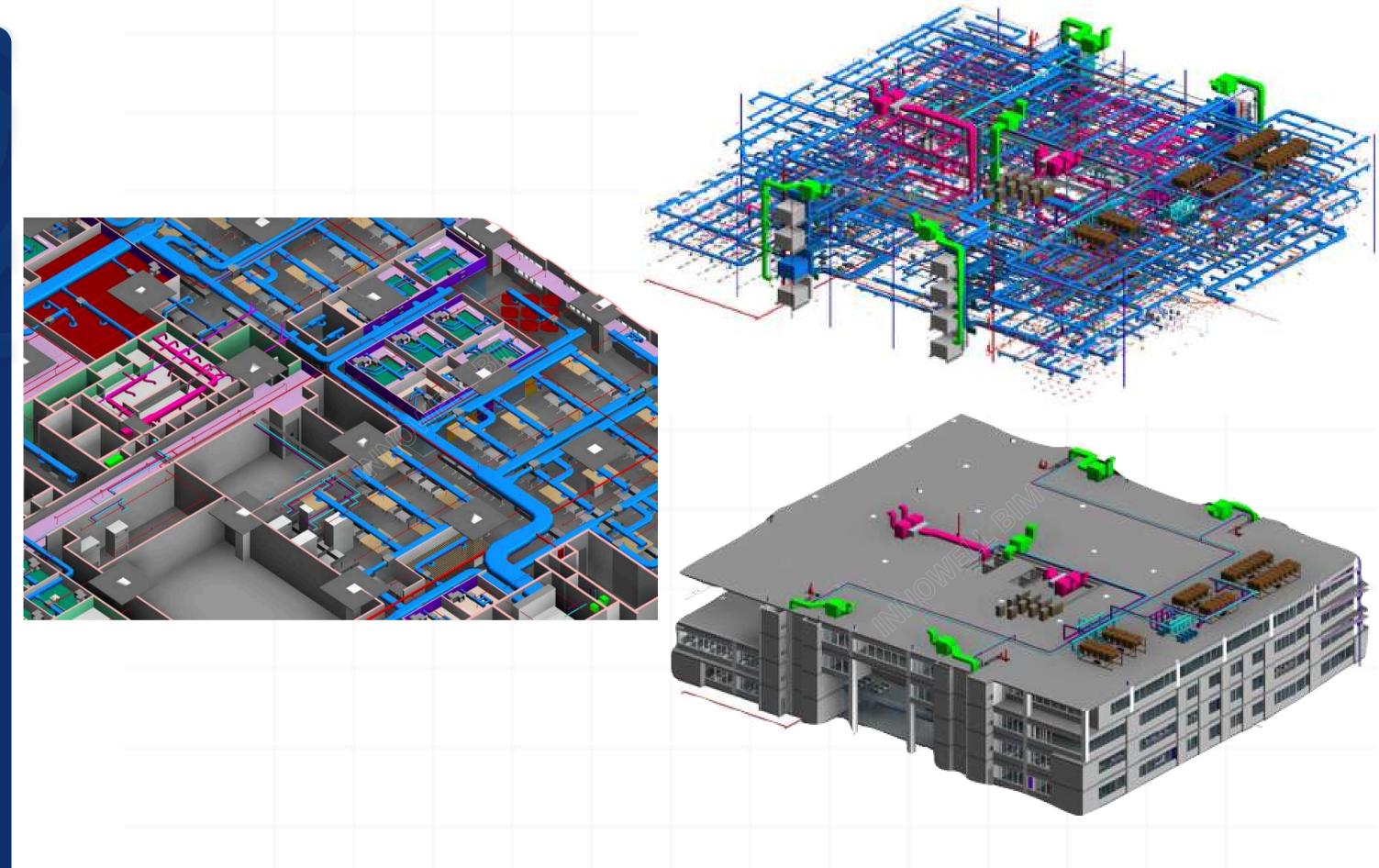
Bangalore, Karnataka

Size: 200,000 SFT

<u>Project Type:</u> Office Building

Scope of work:

BIM + Engineering



MEP Coordination



Rajam IT Park

Hyderabad, India

Size: 500,000 SFT

<u>Project Type:</u> Office Building

Scope of work:

HVAC Modelling













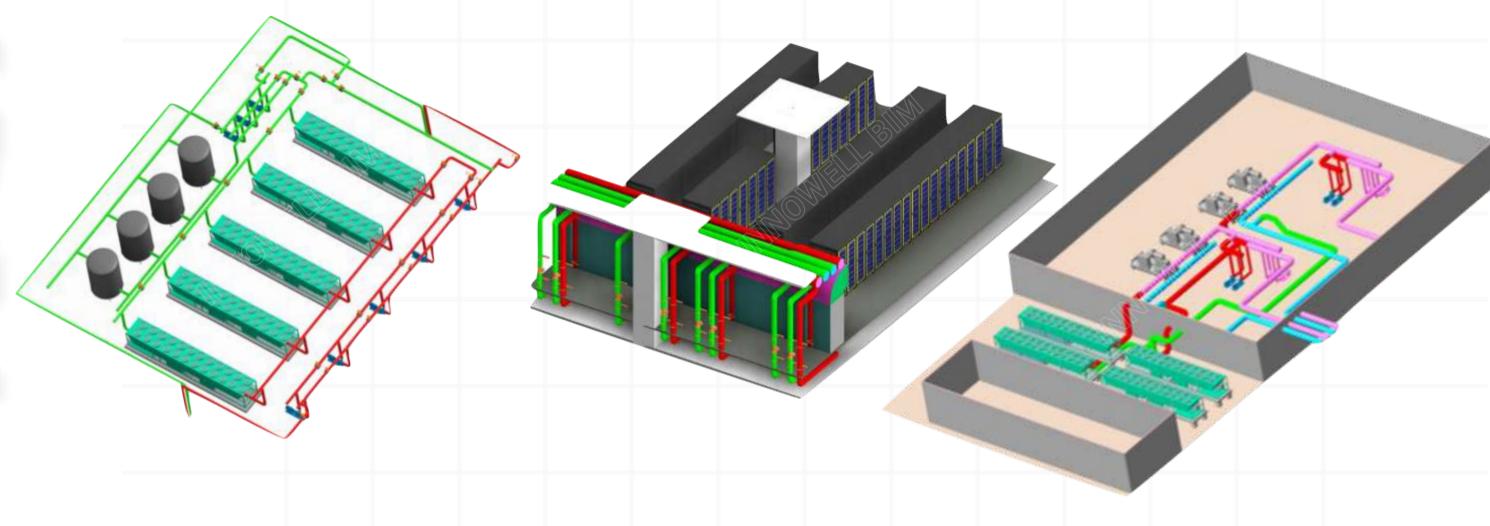
ST Telemedia Global Data Centres

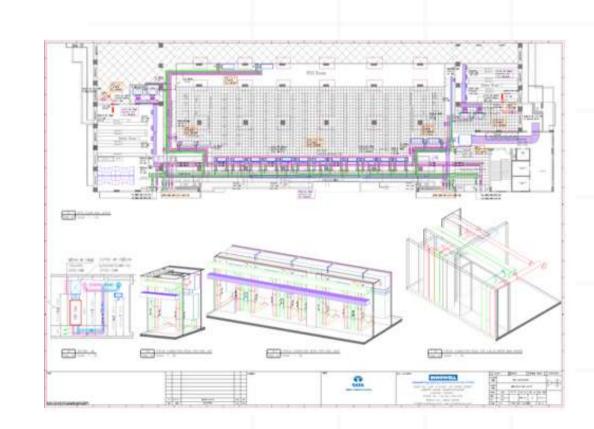
Chennai, India

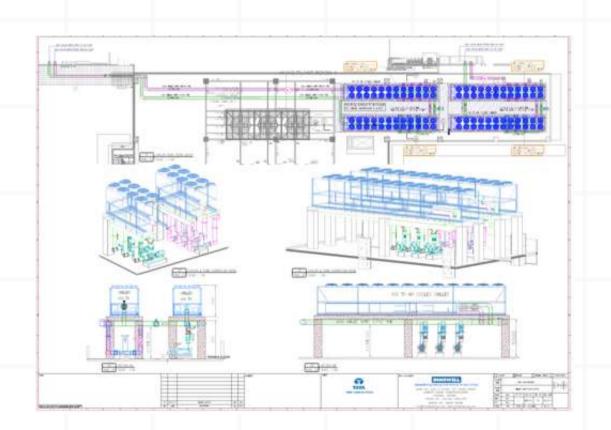
<u>Project Type:</u> Office Building

Scope of work:

HVAC Modelling







HVAC Design





BAETTR India Pvt Ltd

Chennai, India

Size: 700,000 SFT

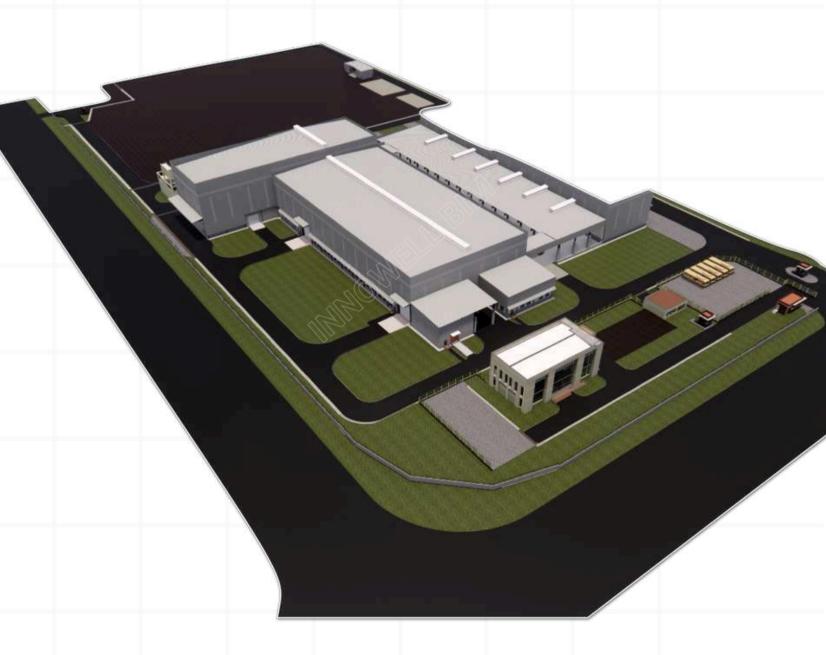
<u>Project Type:</u> Industry

Scope of work:

PEB Modelling + Civil Drawing
Extraction







UHD Rendered Images



Salcomp

Salcomp Mobile Assembly /
Manufacturing Plan

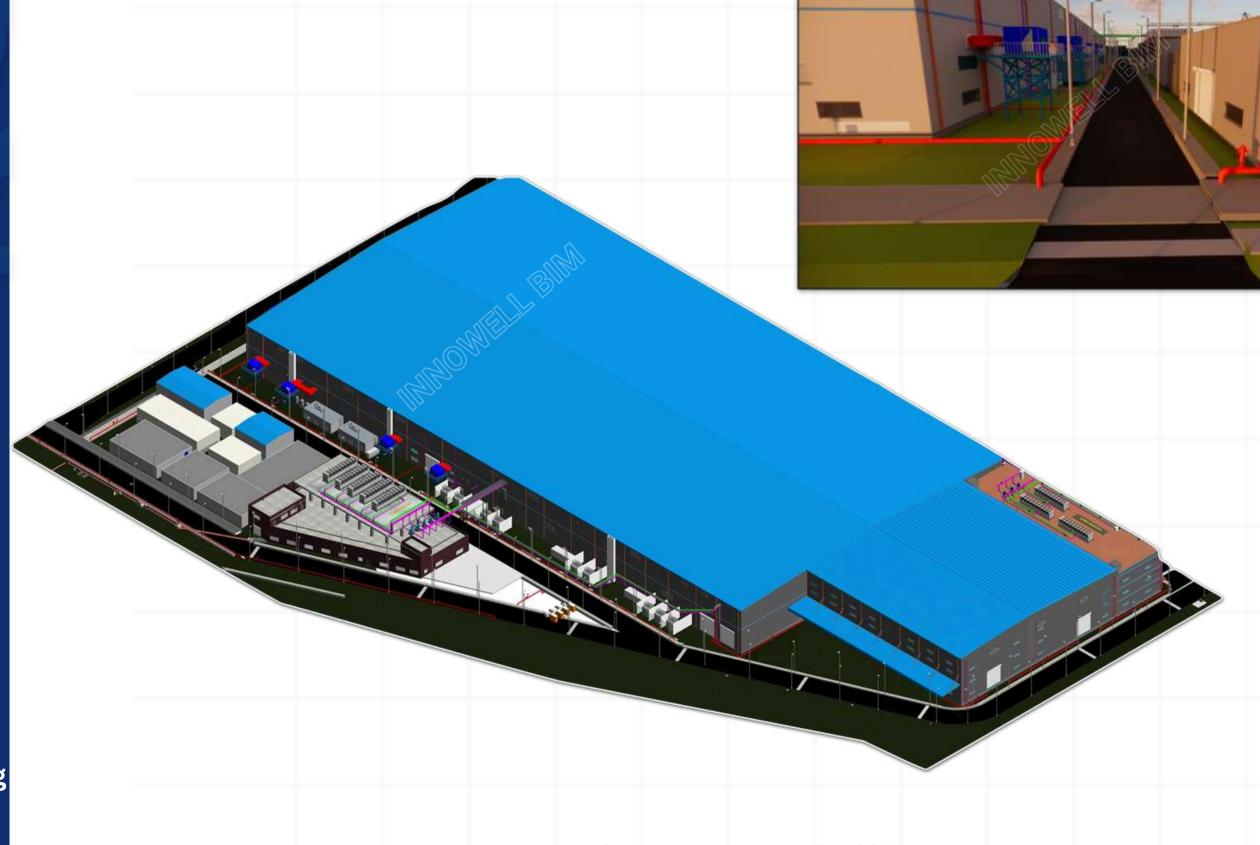
Chennai, India

Size: 700,000 SFT

<u>Project Type:</u> Industry

Scope of work:

PEB Modelling + Civil Drawing
Extraction



ARCH / STR Modelling



Salcomp

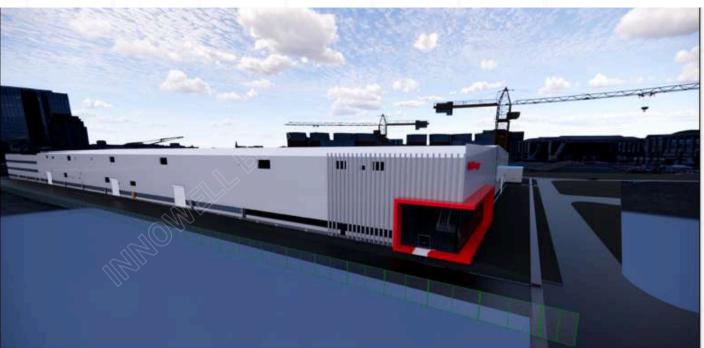
Salcomp Mobile Assembly /
Manufacturing Plan

Chennai, India

Size: 700,000 SFT

<u>Project Type:</u> Industry







Scope of work:

PEB Modelling + Civil Drawing
Extraction

UHD Rendered Images



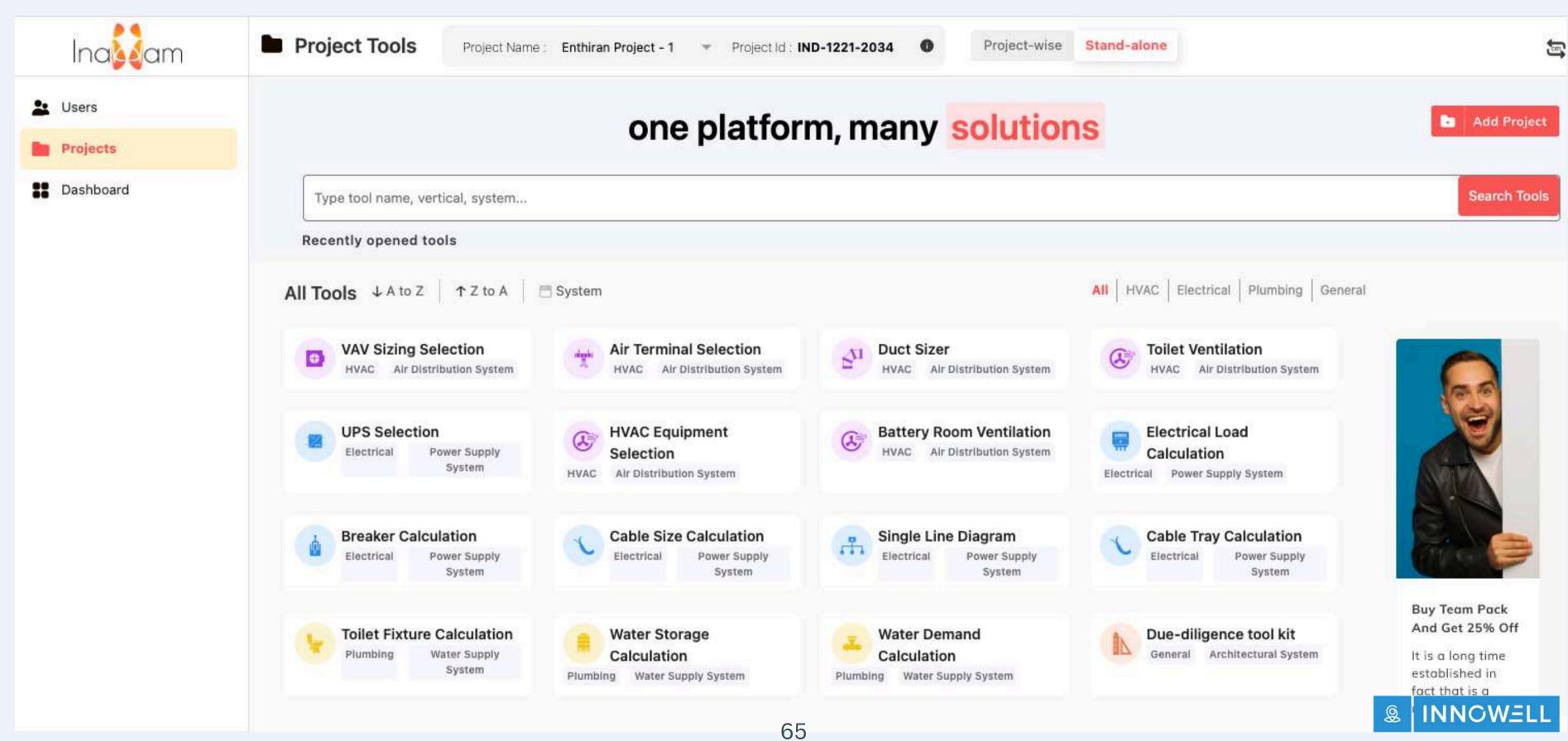
Find Our MEP supporting platform



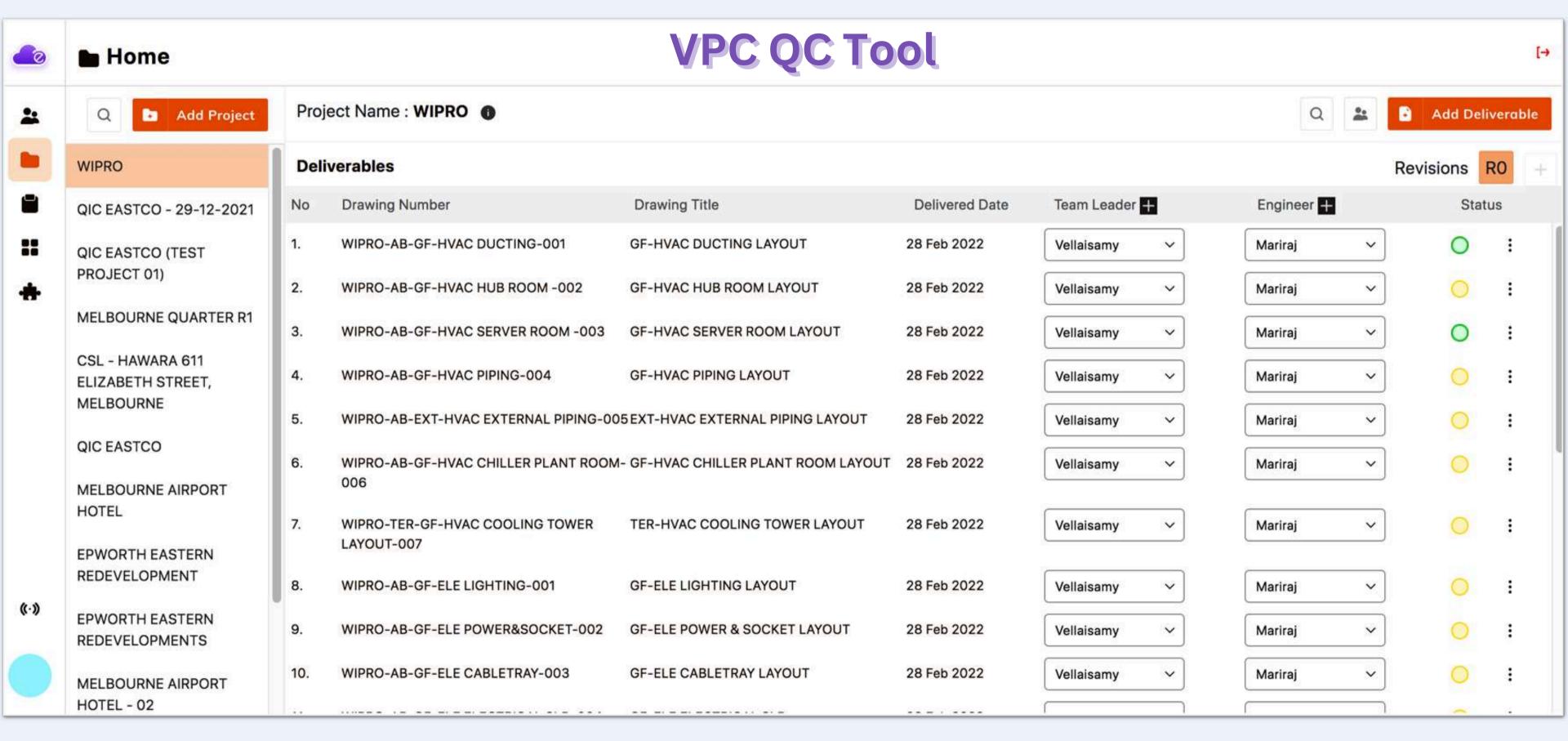


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