



airdesign engineered solutions pvt ltd

"Engineering Excellence, Powered By Innovation"

ABOUT US

- ADES was founded in 2008
- Dedicated professionals
- Outstanding design and consulting services
- Over 36+ years of collective industry experience
- Global perspective with experts from various locations
- Process-driven and service-oriented design firm
- Principal involvement in every project

“PROUDLY PROVIDING ENGINEERING EXCELLENCE”

TIMELINE OF OUR ORGANISATION

INCEPTION
INSTITUTE OF BUILDING SCIENCE

INTRAC
INCEPTION TRAINING ACADEMY
BUILDING CAREERS



TRAINING
Started MEP Training

Management and Skill Training

ELEVATED
New office inaugurated

2020

a d e s

RESTRUCTURED TO PVT LTD

airdesign engineered solutions Private Limited

2016

2013

DEVELOPED

And promoted by ADES



INNOWELL

2010

2008

a d e s

PARTNERSHIP FIRM

airdesign engineered solutions – Humble beginning



a d e s

FUNCTIONAL SERVICES OF BUILDINGS

NON FUNCTIONAL ELEMENTS - BY OTHERS

CIVIL
MUSCULAR SYSTEM

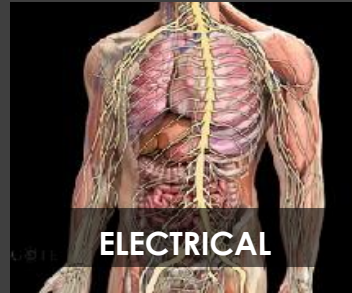


STRUCTURAL
SKELETON SYSTEM

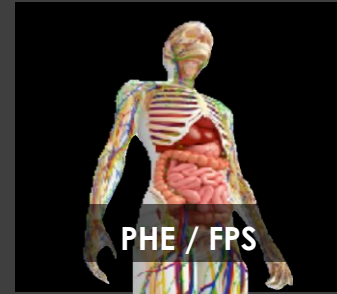
FUNCTIONAL ELEMENTS BY ADES



CARDIOVASCULAR / RESPIRATORY SYSTEM



NERVOUS SYSTEM



CIRCULATORY SYSTEM



ENDOCRINE / CEREBRO SPINAL NERVOUS SYSTEM

HVAC	- Respiratory System
Plumbing	- Circulatory System
Electrical	- Nervous System
Low Voltage System	- Endocrine System

Fire Alarm	- Sensory System
CCTV / PAS	- visual / Auditory System
Access Control	- Immune System
Fire Suppression	- Defence Mechanisms

"Functional elements within a building can be likened to the efficient and harmonious functions of the human body. These elements are akin to the well-coordinated systems and organs that operate smoothly to ensure the building's optimal performance and usability."

VISION

Our work-life balance to empower our clients to achieve their business by offering

- Optimised design solutions
- Energy efficient
- Industry standard high quality
- Business Ethics

VALUES

- Work-Life Balance
- Passion
- Ownership
- Respect and Integrity
- Excellence

MISSION

- **Ades** is committed to delivering high-quality, cost effective projects by employing and supporting motivated, flexible, and focused individuals.
- We value the importance of our Relationships and will continue to remain fair and true in our dealings with all employees, clients, subcontractors, and partners.

OUR KEY STRENGTH

What drives us to deliver the best

PROCESS ORIENTED

ADES is a process driven & service-oriented design firm. We assure our clients of principal involvement and commitment on every project.



TIME CONSCIOUS



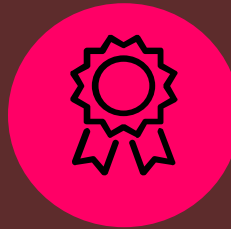
On-time delivery and Project Commitments. We take pride in delivering the quality while maintaining the time equity.

VALUE ENGINEERING

Adding value to services that we provide seems to be the path forward. ADES ensures this in its offerings.



OUR ETHICS



We have a strong foundation of corporate ethical commitments and the organization's approach to our corporate responsibility.

ABOUT THE PRINCIPAL



Dr. FERNO SUSAI A

- Versatile Design Team Lead, Trainer, and Principal Consultant. Proven success in steering diverse building projects with visionary leadership.
- Expertise in project management, innovation, and client relations. Committed to design excellence and team growth.
- **39 Years** of total experience. 18 years of experience as a Founder & Principal Consultant.
- Awarded the **DOCTORATE IN HUMAN RIGHTS** (Honoris causa) Conferred by board of the **World Human Rights Protection Commission (WHRPC)**
- Active Member - **WHRPC**
- Master degree in Sociology
- **PRESIDENT - ISHRAE – CHENNAI CHAPTER - 2022-23**
(Indian Society of Heating Refrigerating and Air-conditioning Engineers)
- **RASHTRIYA ASHOKA SAMMAN AWARD (2026)** — Recognized for outstanding contributions to Human Rights & Social Services, under an award approved by the Ministry of Corporate Affairs, Government of India.

ABOUT THE TEAM



OUR TALENT POOL

PRINCIPAL

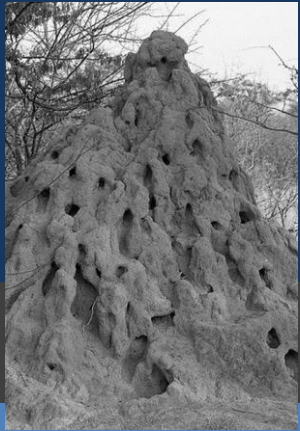
TEAM LEADS

SR. ENGINEERS

ENGINEERS

WHAT WE DO

HVAC



"TRIM YOUR
CARBON TRACK"



"MORE YOU SAVE
MORE YOU EARN"

PHE



"EVERY DROP
COUNTS"

IBMS / BMS



"SMART BUILDINGS,
BRIGHTER
FUTURES"

PAS



"EMPOWER
COMMUNICATION"



"EYE ON SAFETY"

ELECTRICAL

FPS



FAS



CCTV

WHAT WE DO

RO



WTP



STP



ETP



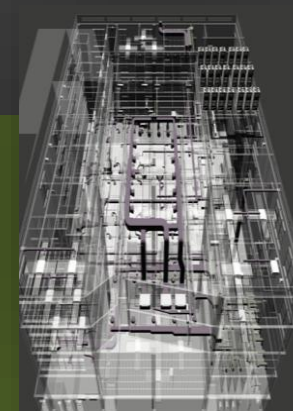
PEER REVIEW



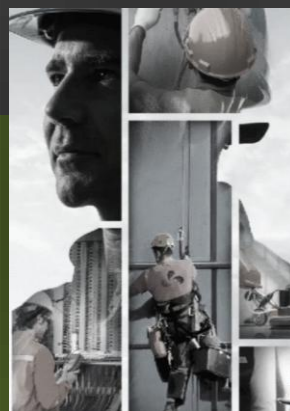
GREEN BUILDING



BIM



FMS



BIM SERVICES

- BIM services for Consultants up to LOD 300
- BIM services for Contractors up to LOD 500
- CAD to BIM / BIM to CAD
- Scan to BIM
- Point Cloud to BIM
- 4D to 7D
- Family creations (Static, Dynamic & parametric families)
- BIM Cobie works



**“ELEVATING EXCELLENCE IN
ENGINEERING DESIGN SERVICES”**

ENERGY SAVING

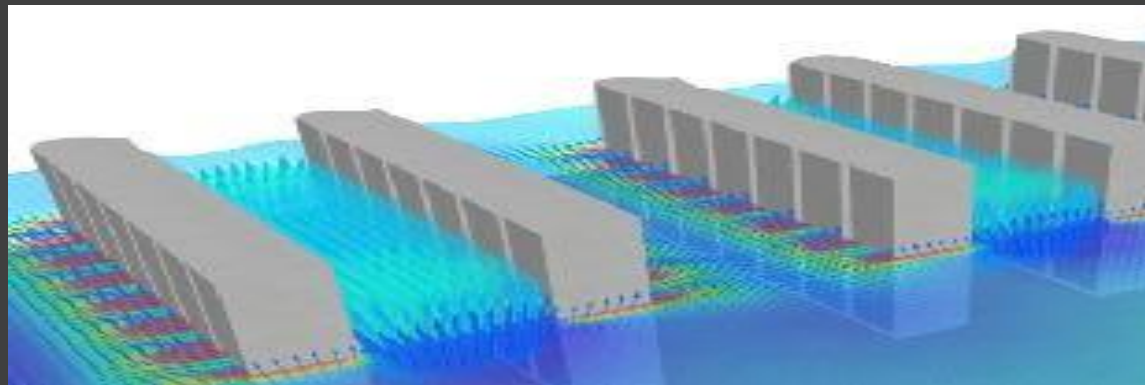
3D BIM

Our design evolved to **3D BIM** for precise coordination on services.



ENERGY

Our detailed **energy analysis** decides the most suitable system for our clients.

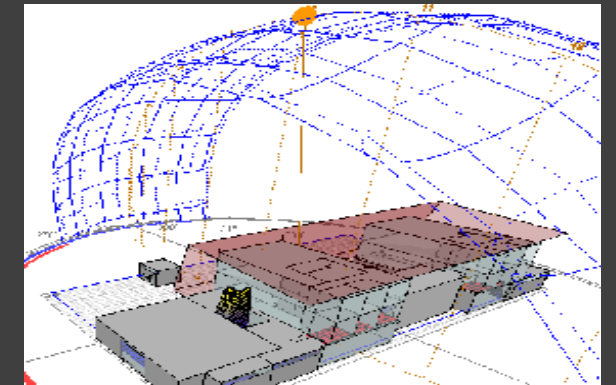


CFD

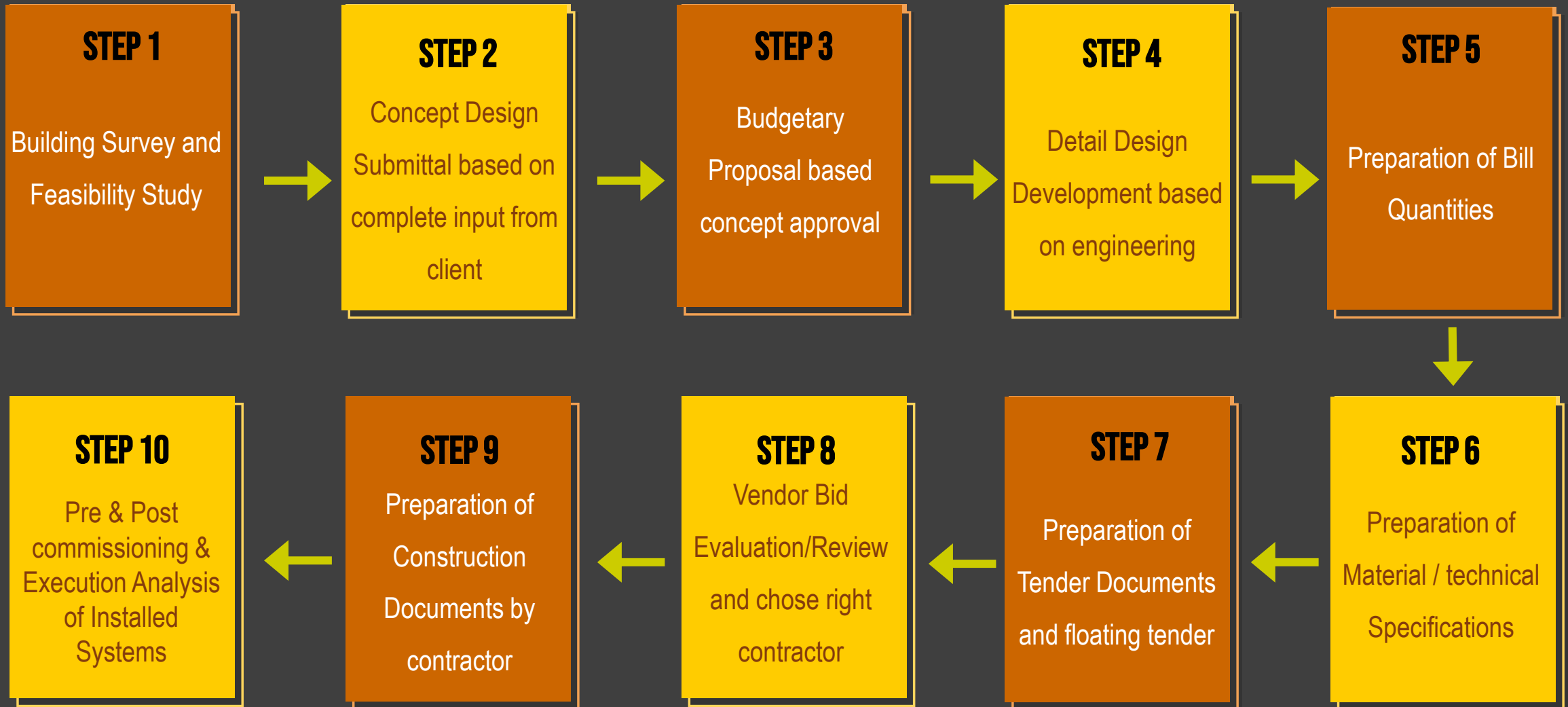
Ever wondered a virtual experience of the project. we do **CFD**.

DAYLIGHT

Advanced Solar Path analysis and **Day lighting** analysis help Architects & Building owners to orient the building for enhanced daylighting, reduce Solar heat gains.



PROJECT PROCESS FLOW





OUR SUCCESS STORY

“WE EXCEL IN OPTIMIZING CAPACITY IN THE MOST EFFECTIVE AND EFFICIENT WAYS WITHOUT COMPROMISING THE DESIGN INTENT.”

- ADES is an innovative MEP consultancy passionately dedicated to delivering measurable benefits to our clients.
- With a continuously expanding team, ADES offers comprehensive MEP Building Services across all sectors of the property and construction industries.

VALUES

"REVITALIZED ROOFTOP : RECLAIMING 27,000 SQFT FOR OPEN BANQUET"

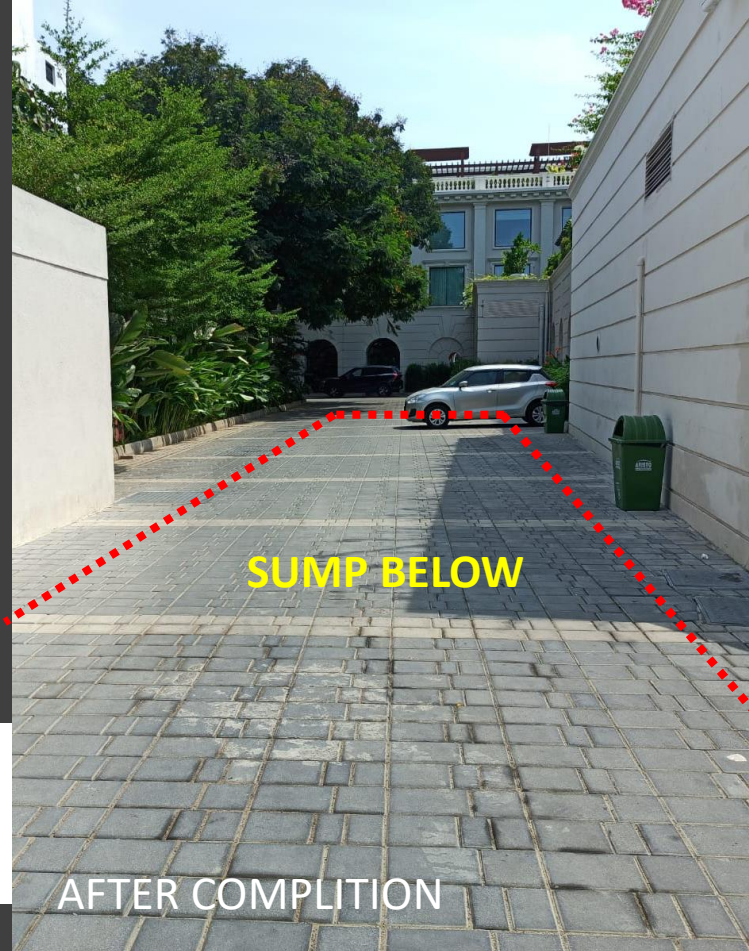


- Ideal airport-adjacent location
- Height restrictions due to Airport Authority
- Unused 27,000 sq. ft. terrace
- ADES cleared utility services
- Removed 25-year-old chimneys
- **REVITALIZED TERRACE INTO REVENUE-GENERATING GUEST SPACE**
- Added outdoor lawn for events
- Significantly increased client value our client



Radisson BLU
HOTEL GRT CHENNAI

VALUES



"REVITALIZED BASEMENT

**RECLAIMING 3,300 SQFT
USED FOR SPA"**

**It has now been transformed into a
functional guest space, generating
revenue.**

Radisson **BLU**
HOTEL GRT CHENNAI

AWARDS

TAMILNADU TOURISM AWARDS - 2023 THE BEST THEME RESTAURANT



Radisson **BLU**
HOTEL GRT CHENNAI

AWARDS



NDTV

Design & Architecture
Award 2016

AWARDS IN SUSTAINABILITY

Global Research Centre Apollo Tyres, Chennai

- Apollo Tyres Ltd R&D Centre, Chennai
- Iconic building in Oragadam SIPCOT industrial area
- HVAC/MEP system challenges with 100% Glazed Envelope
- LEED Gold Certification achieved
- Efficient MEP system design





LULU MALL SHARJAH

**1.8 Million Sq.ft
MEP detailed design
(3D & 2D)**

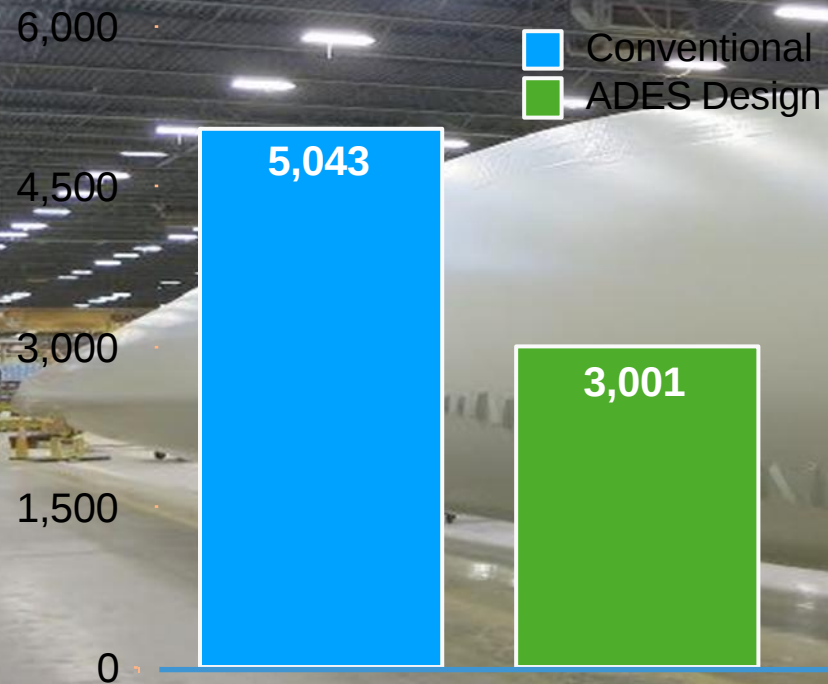




KEY HILIGHTS

INDUSTRY

LESS COOLING CAPACITY & COST



Cooling Cost (lakhs INR)

- 4,000 TR Cooling Capacity was Optimised to 2,400 TR
- Electrical System Transformer infrastructure was reduced by 2,000 kVA

Detailed Calculation
resulted in

40.5%

Reduction on Cost

2042 lakhs

Cost Saving



CFD Analysis resulted in

100%

Even Temperature

82%

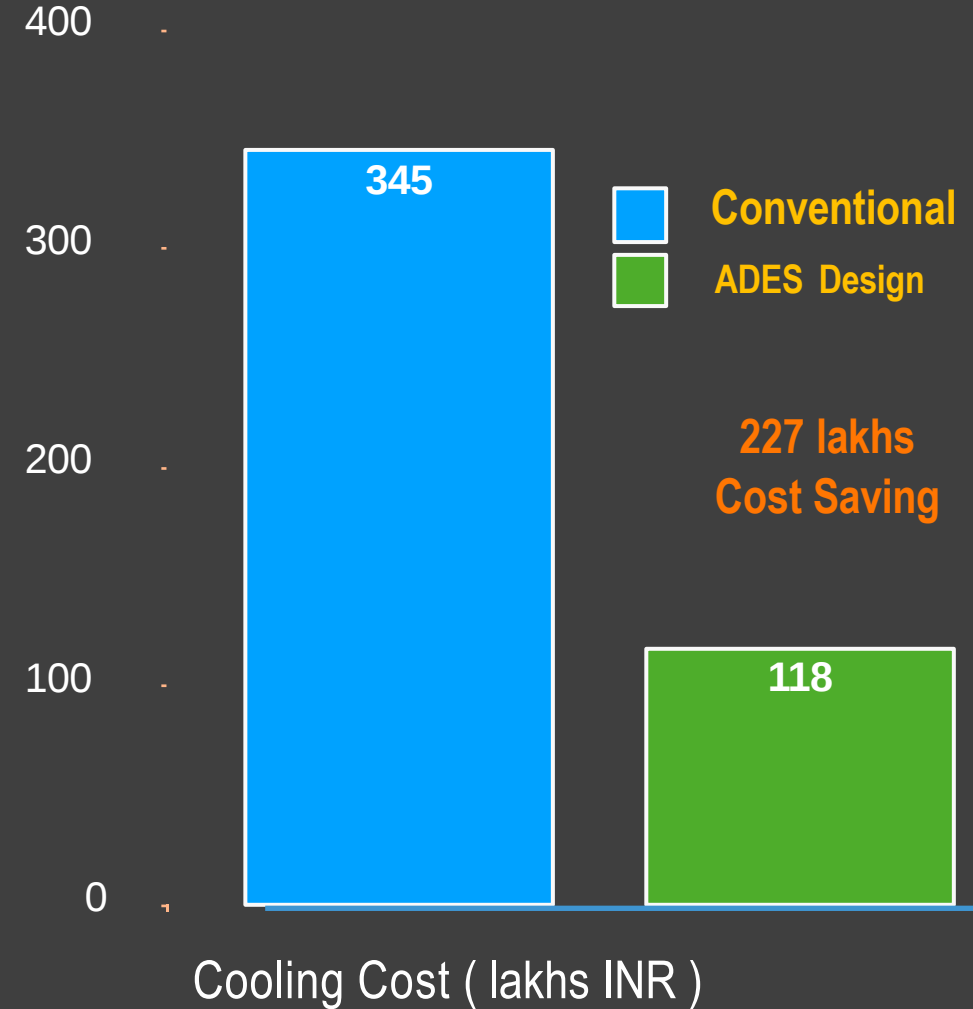
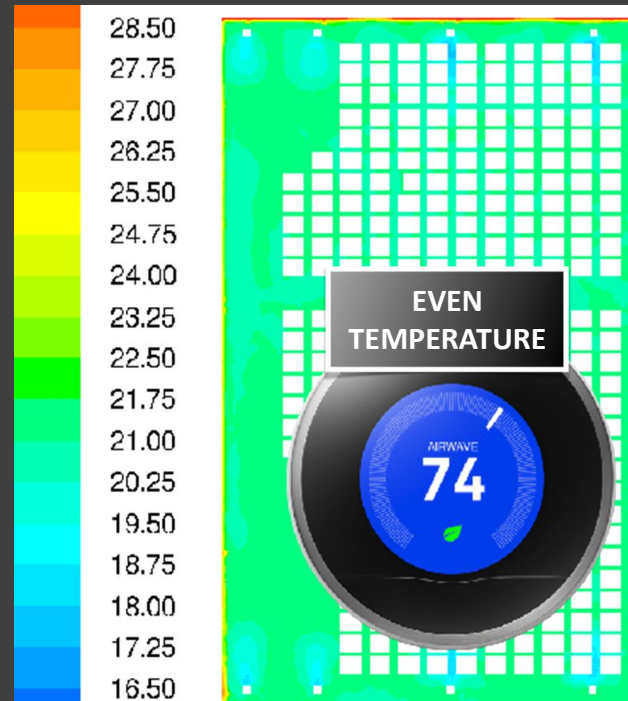
Use of Fabric resulted in
Reduction in Duct Weight

Detailed Calculation
resulted in

66%

Less Cooling System Cost

KEY HILIGHTS



KEY HILIGHTS

Coca-Cola

COOLING CAPACITY & COST



Fresh Air Pre-cooling resulted in

19%

Reduction on Cost

24 lakhs

Cost Saving

19%

Cooling Initial Cost

17%

Reduction in O&M Cost

OUR PARTIAL LIST OF CLIENTS

FOOD INDUSTRIES



OUR PARTIAL LIST OF CLIENTS

IT OFFICES, DATA CENTRES AND COMMERCIAL



OUR PARTIAL LIST OF CLIENTS

IT OFFICES, DATA CENTRES AND COMMERCIAL



OUR PARTIAL LIST OF CLIENTS

INDUSTRIES



OUR PARTIAL LIST OF CLIENTS

INDUSTRIES



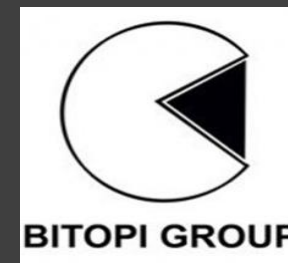
OUR PARTIAL LIST OF CLIENTS

AUTOMOBILE INDUSTRIES



OUR PARTIAL LIST OF CLIENTS

TEXTILES / PAINT INDUSTRIES



OUR PARTIAL LIST OF CLIENTS

CEMENT / PAPER / POWER / CLEAN ROOM INDUSTRIES



OUR PARTIAL LIST OF CLIENTS

COMMERICAL BUILDINGS



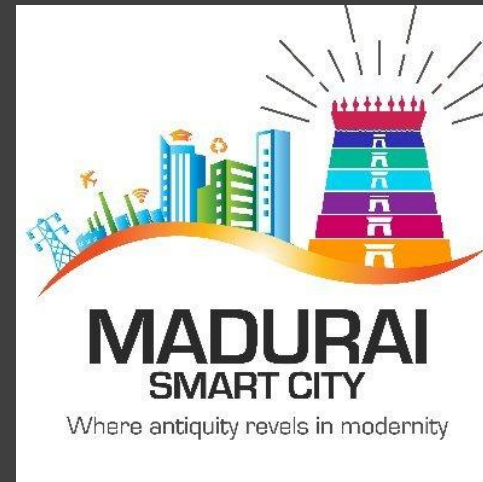
OUR PARTIAL LIST OF CLIENTS

HOSPITALITY



OUR PARTIAL LIST OF CLIENTS

SUPERMARKETS / ENTERTAINMENTS



PERIYAR BUS STAND
SHOPPING COMPLEX



OUR PARTIAL LIST OF CLIENTS

LIST OF PROJECTS IN AUSTRALIA



OUR PARTIAL LIST OF CLIENTS

HOSPITAL / LAB



PILLAR HOSPITAL
ANDAMAN & NICOBAR
ISLANDS

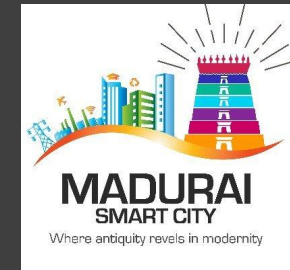


OUR PARTIAL LIST OF CLIENTS

INSTITUTIONS / CONVENTIONS / CINEMAS / CHAPEL



GUDUR RESTAURANT
CONVENTION



TAMUKKAM CONVENTION
CENTRE MADURAI

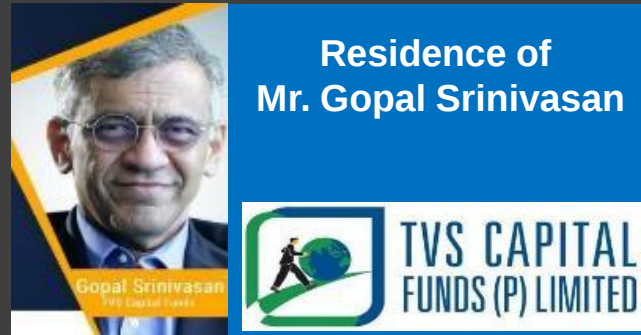


OUR PARTIAL LIST OF CLIENTS

RESIDENTIAL PROJECTS



VIKRAM
CHOUDHARY



OUR PARTIAL LIST OF CLIENTS

PEER REVIEW



WORLD TRADE CENTER



TRILL IT PARK CHENNAI



TAJ HOTEL CHENNAI



MERIDIAN HOSPITAL



**RAJARATHNAM CONSTRUCTION
JONES CASTLE**



**RAJARATHNAM CONSTRUCTION
KINGSTON**

ACHIVEMENTS

LIST OF SUCCESSFUL GREEN PROJECTS IN INDIA

Consultant
G - GRIHA Consultant
C - Commissioning Agent
H - HVAC
M - MEP Consultant

#	Projects	Project Type	Certification Agency	Certification Level	Role
1	National Stock Exchange India Ltd.	Data Centre	LEED	PLATINUM	L
2	Jeno Sougumaran	Residence	IGBC	PLATINUM PRECERTIFIED	L
3	Apollo Tyres Ltd.	R&D Centre	LEED	GOLD	L,M
4	Parker Hannifin India Pvt. Ltd.	Factory	IGBC	GOLD	L,H
5	IIT Girls Hostel	Residence	GRIHA	4 STAR	G
6	IIT Boys Hostel	Residence	GRIHA	4 STAR	G
7	Engineers India Ltd	Office Space	GRIHA	4 STAR	G
8	IT Park for CTS@MEPZ,Chennai	IT Park	LEED	GOLD	C
9	IT Park for CTS@Hinjewadi, Pune	IT Park	LEED	GOLD	C
10	L&T Technology Centre II	Commercial Building	LEED	CERTIFIED	C
11	HP Office Building at TRILDBlock	Office Building	LEED	GOLD	H
12	Saint Gobain India Pvt. Ltd.	Office Building	LEED	GOLD	H
13	Pershing at TRILD Block	Office Building	LEED	GOLD	H
14	Agility Logistics Pvt. Ltd	Office Building	LEED	GOLD	H

#	Projects	Company	Project Type	Certification Level		Points
1	Genesis Washing Plant	M& JGroup	Washing Unit	PLATINUM	CERTIFIED	83
2	Genesis Fashions Ltd	M& JGroup	RMG	PLATINUM	CERTIFIED	81
3	Envoy Textiles Ltd	Envoy	Denim Mill	PLATINUM	CERTIFIED	80
4	SQ Celsius 2	SQ Group	Auto Knitting	PLATINUM	CERTIFIED	85
5	SQ ColBlanc Ltd	SQ Group	RMG (Shirts)	PLATINUM	CERTIFIED	81
6	SQ Birichina Ltd	SQ Group	RMG (Lingeries)	PLATINUM	CERTIFIED	81
7	Remi Holdings Ltd	Bitopi Group	RMG & Washing	PLATINUM	CERTIFIED	97
8	Tarasima Apparels Ltd	Bitopi Group	RMG & Washing	PLATINUM	CERTIFIED	93
9	Columbia Washing Plant Ltd	M& JGroup	Denim Washing Unit	PLATINUM	CERTIFIED	87
10	Echotex Limited		RMG	PLATINUM	CERTIFIED	86
11	SQ Central	SQ Group	Office Space	PLATINUM	CERTIFIED	85

ACHIVEMENTS

LIST OF SUCCESSFUL GREEN PROJECTS IN ABROAD

THANK YOU

LET'S CONNECT



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