



## Four Square Engineering Services

# Objectives



## **Sustainable Environment**

To use technical design excellence to design sustainable Projects which can enhance the environment



## **Energy Saver**

Energy saving and conservation oriented design & optimum utilization of natural resources, advanced technologies & virtual experience.



## **Customer Satisfaction**

To offer customers most economical and comprehensive solution in engineering design consultancy



## **State of Art Technology**

State of art technology, fast track installation and compliance to all statutory National & International regulations as per ASHRAE, ISHRAE, GRIHA, ICGB, ECBC, NBC, NFPA, NEC, C PWD, etc.

# What we offer

We create standards of excellence

# Our Services



- Air conditioning(Chilled Water Plant, VRF/VRV System, Water Cooled DX Units, Split Units etc)
- Central and localized Heating applications.
- Mechanical Ventilation for parking and basement areas.
- Industrial Ventilation for Warehouses and Factories.
- Central Evaporator cooling for Industrials and Residential.
- Air conditioning using Geo Thermal Energy.
- Mechanical Ventilation using Earth Air Tunnel
- Air conditioning system through active and passive induction beam.

## HVAC

- Electrical design of 11KV To 110KV Sub-Station and distribution network.
- Stand Power Back Up by D. G. sets with Synchronization, Load sharing and Load Management for parallel operation schemes.
- Un interruptible power supply schemes for IT and other uses with load calculations and distribution.
- Illumination Level Design and selection of luminaries for aesthetic lighting normal & emergency applications with required calculation on the software . Inverter sizing with calculation.

## Electrical Services

## Sustainable Energy Services

- Anti-corrosion Technology.
- Solar heat reflective coatings for metal roof and concrete roofs to maintain lower U-value of the building.
- Hygienic cleaning of air and cooling efficiency.
- Antimicrobial hygienic Technology etc

## Public Health & Fire Engineering Design

- Water supply Collection, pumping & piping distribution system
- Central hot water generation & Supply solar water heaters /water generators
- Rain water harvesting system.
- Domestic water softening and treatment plant.
- Hydrophonematic System for Distribution of treated water
- Drainage collection disposal system
- Sewage treatment plant (STP)
- Sprinkler System \* Flooding System \* Fire Hydrants \* Automatic Fire Detection

# Service Design Stages



Stage 1

Stage 2

Stage 3

Stage 4

## 1. CONCEPT DESIGNS AND ESTIMATES

- Feasibility Study of all related services in the Project
- Conceptual Planning of all services with respect to Architecture and Structural Plans of the building
- Preliminary Design Report & Budget Estimate of all services involved

## 2. DETAILED ENGINEERING

- Detailed Planning for design criteria involved in the project.
- Drawings for equipment and control systems needed for the facility.
- Specifications of material.
- Schedule of Quantities for services
- Detailed Cost Estimates of all items
- Rate analysis of items that form part of the tender wherever required.

## 3. TENDERING, EVALUATION AND RECOMMENDATIONS

- Preparation of Tender Document along with conditions and guidelines for completion of works
- Pre qualification of Contractors suitable for the facility
- Notice inviting Tender on client's behalf if intended
- Comparative statement for Tenders-Commercial, Technical, Unit rates & Amounts

## 4. APPROVAL OF SHOP DRAWINGS AND DOCUMENTS

- Securitization and Verification of Shop Drawings, RFIs, Material Approval, Method of Statement and design considerations of the suppliers
- Certification of the material to be procured by contractors as per the tender documents

# OUR INHOUSE TEAM



## Principal Consultant (HVAC) *DIBESH GOPAL & Faizan Akhtar*

- ❑ B.Tech in Mechanical Engineering from CSJM University Kanpur.
- ❑ Diploma in Mechanical Engineering from Punjab State Board of Technical Education.
- ❑ Over 8 / 28 years of experience in HVAC designing.
- ❑ Ishrae Member.

## Electrical Design Engineer *Arun Dayal / Arvind*

- ❑ Bachelor Engineering in Electricals form Bhagalpur. 1990
- ❑ More than 27Yrs. experience in Planning, Design & Co-ordination of MEP Engineering Services.

## Public Health & fire Engineering design Engineer *Mohit Agarwal*

- ❑ B.Tech in Mechanical Engineering from Mumbai, India
- ❑ Over 15+ years of experience in Plumbing & Firefighting designing.
- ❑ Member of Fire & Security association of India (FSAI)
- ❑ Revit MEP 3D/2D Software

## Sustainable Energy Associates

- **Green Building (Griha):**  
*Anshu Gupta*  
MAG Consultancy  
117, Vardhman Fortune Mall, G.T. Karnal Road
- **Dr. Ruchi Grover**  
PhD (IIT-Bombay)  
Consultant -  
Anticorrosion and Heat Reflective Technology

# Key Projects

## Cinepolis



- Cinepolis Multiplex, Janakpuri, New Delhi.
- Cinepolis Multiplex, Attapur, Hyderabad,
- Cinepolis Multiplex, Jamshedpur
- Cinepolis, Esplanade, Bhubhneswar,
- Cinepolis, Trilium, Mega Mall, Nagpur
- Cinepolis, ALPHA ONE, Amritsar, Punjab
- Cinepolis, DT Cinema, Saket, New Delhi
- Cinepolis, JR, Bangalore
- Cinepolis, Riech Airia Mall, Gurugram

## Zomato



**zomato**

- Zomato Delhi-12
- Zomato Kolkata-06
- Zomato Bangalore-05
- Zomato Hyderabad-04
- Zomato Rajasthan-06
- Zomato Maharastra-10
- Zomato Madhya Pradesh-02
- Zomato Uttar Pradsh-03
- Zomato Gurgaon-02
- Zomato Punjab-03
- Zomato Chennai-04

# Key Projects

## IIT, ROORKEE



- 800 Bedded Hostel Block
- 1400 Bedded Hostel Block
- Mathematical & Humidity Block
- Chemistry Block

## NIT, JALANDHAR



- Library Block
- E- Block
- Innovation Centre
- Uttrakhand Jail



# Key Project

## 300 BEDED HOSPITAL & MEDICAL COLLEGE AT PITHORAGARH (U.K.)



• 300 BEDED HOSPITAL & MEDICAL COLLEGE AT PITHORAGARH (U.K.) (HOSPITAL SITE)

• 300 BEDED HOSPITAL & MEDICAL COLLEGE AT PITHORAGARH (U.K.) (BMW SITE)

# Key Project

**300 BEDED HOSPITAL & MEDICAL COLLEGE AT PITHORAGARH (U.K.)**



- 300 BEDED HOSPITAL & MEDICAL COLLEGE AT PITHORAGARH (U.K.) (MEDICAL COLLEGE SITE)

# Key Projects

## MEDICAL COLLEGE & HOSPITAL



- Turra Medical Collage
- Pithoragarh Medical Collage
- Guru Harikishan Hospital, New Delhi-500 Bedded
- Dr. Hedgewar Hospital, New Delhi-500 Bedded
- Multi speciality Hospital, Rohtak
- Niper Hospital, Gujrat
- Firozabad Hospital
- Regional Research Institute Of Unani Medicine

## ADMINISTRATIVE BUILDING



- Ranchi High Court
- BEC Building, Dholera, Ahmedabad, Gujrat
- SPV Building
- D.G. Shiping Office, Mumbai
- IIIT, Lucknow
- Saya Corporate Office
- Eklavya School

# Other Projects

## FACTORY & OFFICE



- Factory GT Karnal
- DLF Camallias
- Vidhyachal Hotel
- Comissinery Kitchen, Mumbai (LBF)
- Factory Udyog Vihar, Gurgaon
- ATLI Factory, Gurgaon (Japanese Factory)
- 32 Miles Pings
- 32 Miles Sazerac
- BT Final Restaurant
- S.S. Plaza
- All Good Delielante Mall, ChandiGarh
- Naasto, Mumbai

## MALL & SCHOOL



- MSS, MALL, GHAZIABAD
- EKLAVYA SCHOOL, JHARKHAND
- EKLAVYA SCHOOL, ORRISA
- DPS, GREATER NOIDA
- GAUR SCHOOL, YAMUNA CITY

# Other Projects



**Mehta Residence,  
Koregaon Park, Pune**



**BEC, SPV Building, Dholera**



**Manavsthal School**



**Hedgewar Hospital, New Delhi**



**LODHA MLCP-3**



**IIT, Roorkee**

# Other Projects



**Factory GT, Karnal**



**Avanti Factory, Karnal**



**Udyog Vihar Factory**



**Eklavya School, Jharkhand  
(Orissa)**



**Cenfeng Workshop, G. Noida  
Area-30 Lakh sq.ft.**



**Atli Factory, Gurgaon (Japanese  
Factory  
Area-15 Lakh sq.ft.)**

# Our Clientage



# Our Clientage



**INDUS**®  
LAW FIRM



**noida**  
Authority



HARYANA  
**pwd**  
BUILDINGS & ROADS



**PWD**  
Govt of Delhi



**MSL** Motherson Sumi  
Systems Limited



**SPACE COMBINE**



ह. स. कं. क.



**HSCC**



AN ISO 9001:2008  
Mini Ratna Company



Consultant for Development of  
Mega Healthcare Infrastructure



# Our Clientage



# Thank you

## **Corporate Office**

**Email:** [info@4square.in](mailto:info@4square.in)

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New Delhi – 110096

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## **Branch Office**

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