



MEPF ENGINEERING CONTRACTOR



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Introduction to the Company



Engineers Group Solution offers engineering design services for the built environment. The practice gradually widened the scope of its activities to include large office complexes, luxury hotels, shopping centers, hospitals, industrial projects, multi-storied apartment buildings, sports complexes, townships and other civil engineering projects. EGS has earned a reputation for creative contributions to engineering and architectural design, technical excellence, remarkable cost and material efficiency and responsive service to Clients all over India.



About Company

We provide Turnkey solutions of consultation and project management services right from design, planning, supply, installation, testing and commissioning of complete MEP Engineering Services. The services offered include electrical systems, heating and ventilation systems, cleanroom services, public health services, fire protection and prevention systems, ELV & security systems for commercial, residential, industrial buildings and infrastructure projects.



VISION



“BUILDING A PARTNERSHIP WITH OUR CUSTOMERS IS PARAMOUNT IN CREATING LONG TERM RELATIONSHIPS; THIS HAS ALWAYS BEEN THE VISION AND THE GOAL OF ENGINEERS GROUP SOLUTION. OUR PHILOSOPHY HAS PROVEN THAT WORKING TOGETHER WITH CLIENTS AS PARTNERS, TRULY DOES CREATE MORE THAN JUST A BUSINESS OPPORTUNITY; IT CREATES A LONG-TERM PROFESSIONAL RELATIONSHIP” .



MISSION



OUR MISSION IS TO SUPPORT YOUR OBJECTIVES WHILE BEING THE MOST TRUSTED MECHANICAL/ELECTRICAL/PLUMBING ENGINEERING DESIGN AND CONSULTING FIRM IN INDIA. UTILIZING SOUND ENGINEERING JUDGEMENT, WE ARE COMMITTED TO PROVIDING EXCEPTIONAL SERVICE THROUGHOUT THE LIFE OF OUR PROJECTS.



OUR SERVICES



- Mechanical
- Electrical
- Plumbing
- Fire Protection

HVAC SERVICES



- CENTRAL AIR CONDITIONING
- VRV/VRF
- DUCTABLE UNITS
- PACKAGE UNITS
- CASSETTE UNITS
- TOWER UNITS
- SPLIT UNITS
- AIR HANDLING UNITS
- FAN COIL UNITS



Commercial HVAC Systems, Repair & Installation



Every commercial building has a purpose, whether that purpose is to facilitate manufacturing operations, incite and nurture inventions, distribute retail merchandise, cultivate a higher learning experience, or even host parties, a true high-performance heating, ventilating, and air conditioning (HVAC) system makes your building work better for your life.

We deal in energy-efficient VRV /VRF Systems, Chillers & all kinds of AHUs that are made by modern technology. We have emerged as a renowned name by offering high-performance Air Washer Systems. Keeping in view the heat load in the department, we have designed the air washer system that can maintain the requisite RH in it. To keep uniform conditions throughout the department and to bear heat load, our system and return air system are designed in a precise manner. Based on advanced technology, our system provides positive pressure and eliminates flies and dust from the department.

Our commercial HVAC division offers new equipment sales and complete service and installation to you and your business. We take great pride in our ability to handle a diverse array of small to mid-sized HVAC systems in a commercial capacity.

Our technicians are fully trained, and insured to use the most up-to-date analytical equipment to diagnose and troubleshoot any HVAC disruptions in your business.

Residential HVAC Systems, Repair & Installation



Our Residential Sales team can help you find the right cooling & heating equipment for your home if your system needs to be replaced or pair you with one of our HVAC Service Technicians who can come out and troubleshoot and repair non-functioning HVAC equipment.

We deal in Star Labeled Hi-Walls that are energy efficient. Also, we provide the latest Inverter-based Hi-Walls (Split AC) that are based on Variable Speed compressors and that are even better than 5 Star Labeled Hi-Walls. We deal in Daikin, Voltas, O-general, Blue Star, Hitachi and so on at the cheapest rate as markets

Our residential air conditioning and heating technicians are focused on finding you the right solutions, whether that includes repairing your system right the first time or replacing it with a new energy-efficient and cost-effective HVAC system. We service all makes and models of heat pumps, air conditioners, furnaces, and indoor air quality equipment.

Central Air Conditioning Units Installation & Repair



Choosing the Right Air Conditioning System

If you've been thinking of upgrading your old central air-conditioning system or installing central air in a house that has never had it, there's a lot to consider.

Every heating & cooling equipment manufacturer today offers a wide range of products, with one suited to nearly any and every situation. A few even make systems for houses that won't accommodate conventional duct-work.

As you might expect, the two most important considerations are efficiency and cooling capacity, but there's more to it than buying the biggest, most efficient air conditioning system you can afford. In fact, there's quite a bit more.

The professionals at Engineers Group Solution will take the time to share with you other factors to consider prior to purchasing a new Central Air Conditioning System.

WE DEAL IN HVAC PRODUCTS

GIVEN BELOW LIST

Daikin

Voltas

Blue Star

Hitachi

L.G.

Mitsubishi Electric

O General

Carrier

Carrier Midea

Lloyd

CASSETTE AC



ROUND FLOW/ FOUR
WAY CASSETTE AC



ONE WAY CASSETTE AC



TWO WAY CASSETTE AC



COMPACT CASSETTE AC



SPLIT AC



TOWER AC

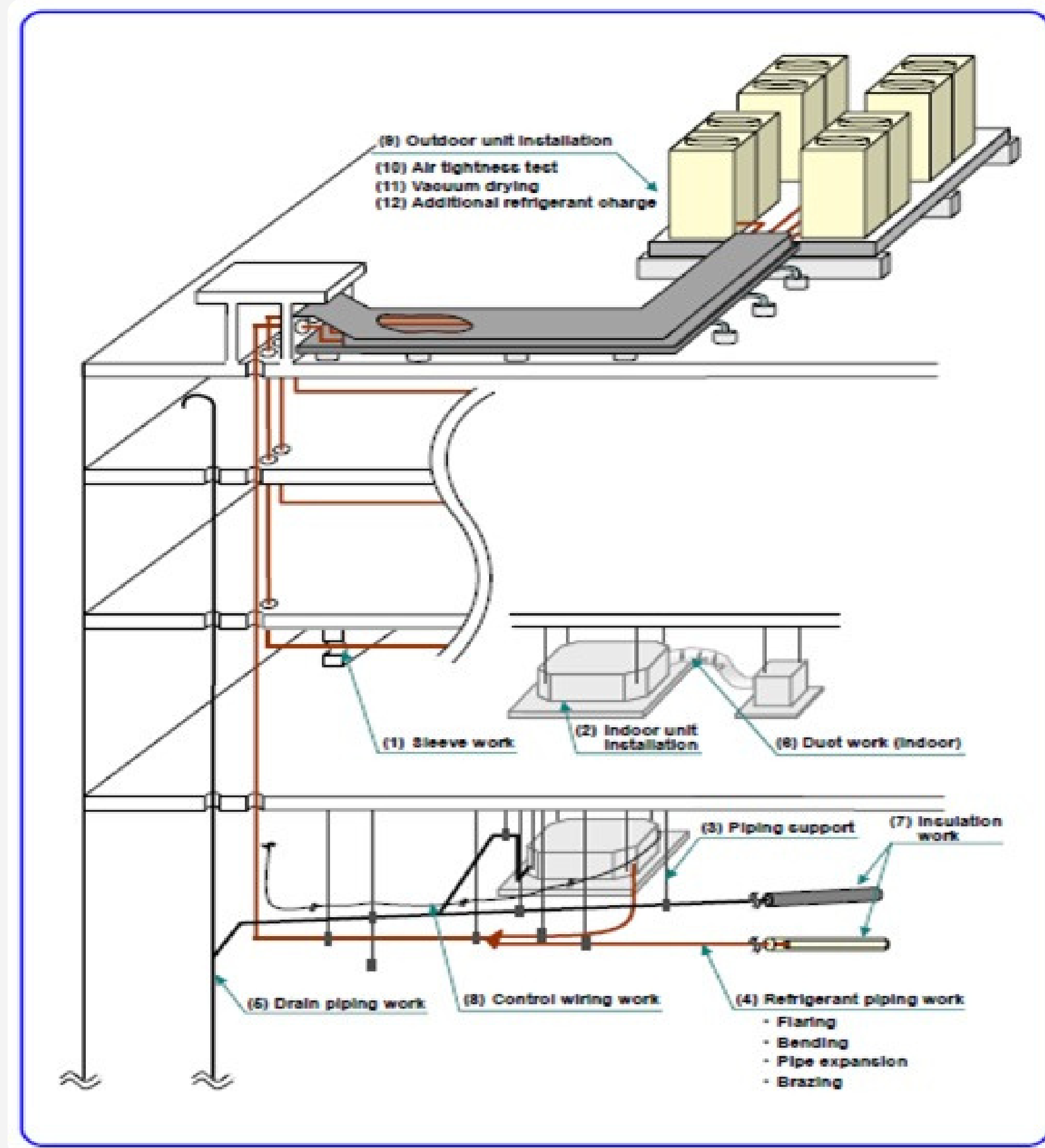


DUCTABLE AC



AIR COOLED ROOFTOP AC

VRV SYSTEM



Electrical

- HT METERING, HT BREAKERS, HT CABLING & EARTHING, TRANSFORMERS
- LT BREAKERS, LT ISOLATORS & LT PANEL.
- BUS DUCT, RISING MAIN, MAINS & SUB MAINS.
- ELECTRICAL NETWORK – INTERNAL & EXTERNAL
- SOLAR LIGHTING SYSTEM
- EMERGENCY POWER GENERATION SYSTEM
- UN-INTERRUPTED POWER SUPPLY (UPS) SYSTEM

Low Voltage

- FIRE DETECTION & ALARM SYSTEM
- PUBLIC ADDRESS SYSTEM
- PUBLIC ADDRESS SYSTEM
- TELEPHONE & DATA INFRASTRUCTURE
- SECURITY SYSTEM

PUBLIC HEALTH ENGINEERING & FIRE FIGHTING SYSTEM



- PUMPING & HYDRO-PNEUMATIC PUMPING SYSTEM-GRUNDFOS
- HOT & COLD-WATER DISTRIBUTION SYSTEM
- CENTRALIZED STEAM BOILERS & HOT WATER GENERATION
- STEAM SUPPLY & CONDENSATE RECOVERY
- HOT WATER THROUGH HEAT PUMPS- A. O SMITH
- WATER & WASTE WATER TREATMENT
- SEWAGE TREATMENT PLANT, TERTIARY TREATMENT & RE-CYCLING
- RAINWATER HARVESTING
- SOLAR HOT WATER & HEAT RECOVERY SYSTEM
- FIRE FIGHTING SYSTEM INCLUDING PUMPING, WET RISERS, SPRINKLERS & WATER CURTAIN SYSTEM.

What are Cleanrooms ?

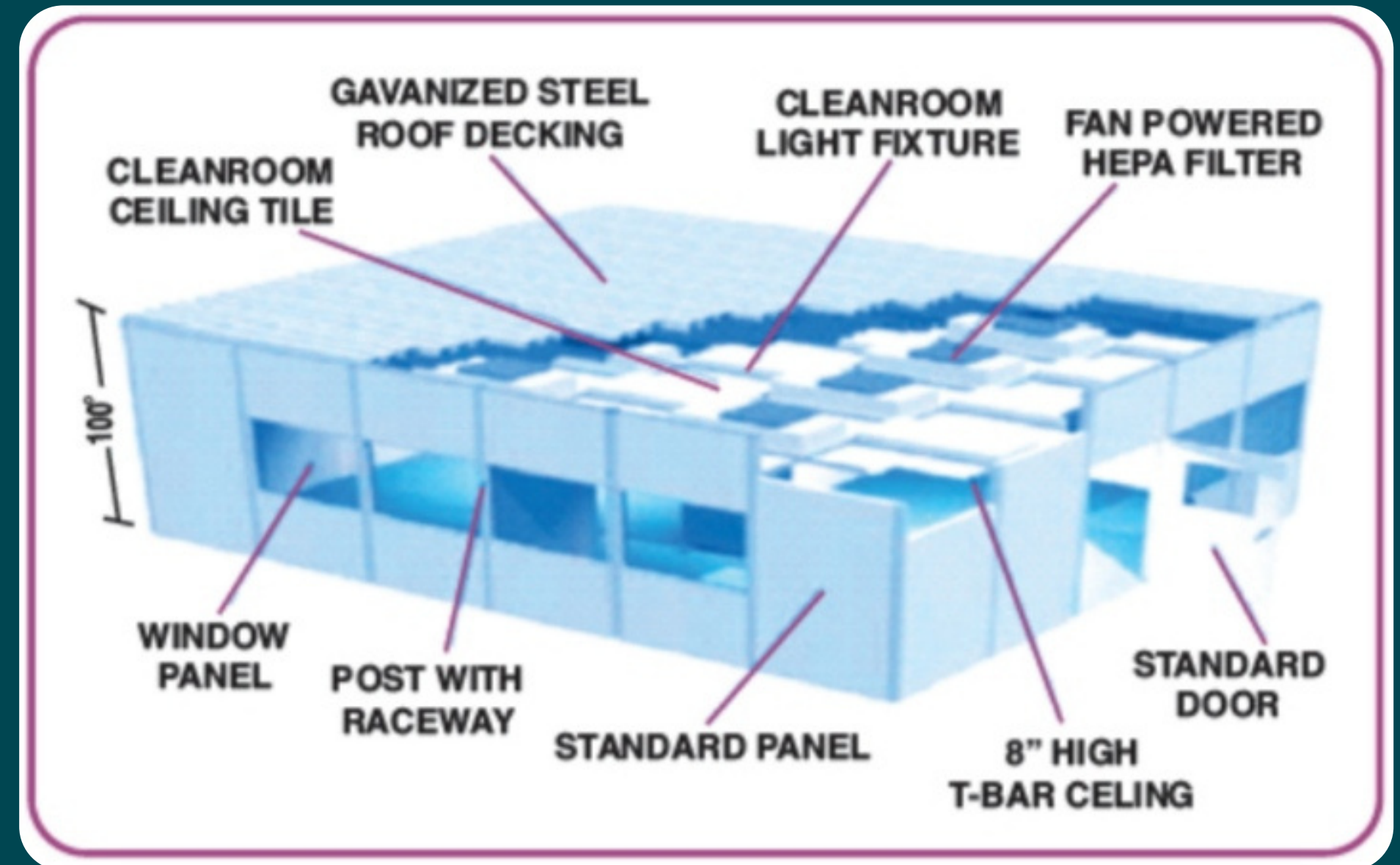
A CLEANROOM IS AN ENVIRONMENT, TYPICALLY USED IN MANUFACTURING, INCLUDING OF PHARMACEUTICAL PRODUCTS AND SCIENTIFIC RESEARCH AS WELL AS IN AEROSPACE, SEMICONDUCTS, ENGINEERING APPLICATION WITH A VERY LOW LEVEL OF ENVIRONMENT POLLUTANTS SUCH AS DUST, AIRBORN PARTICLES & CHEMICAL VAPORS. IT HAS A CONTROLLED OF COMTAMINATION THAT IS SPECIFIED BY NUMBER OF PARTICALES PER WHICH PER CUBIC METER & HUMIDITY, TEMPERATURE IS ALSO CONTROLLED



CLEAN ROOM SYSTEM

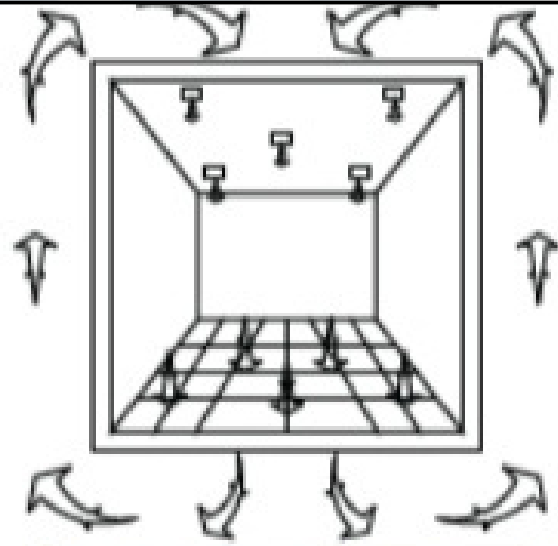
A CLEAN ROOM IS AN ENVIRONMENT WHERE THE PARTICULATE CONTAMINATION & BACTERIAL CONTAMINATION ARE LIMITED TO PRESCRIBED LEVELS. THAT MEANS CLEAN AIR, STABLE TEMPERATURE, STABLE HUMIDITY, CLEAN WATER, GASES AND CHEMICALS, LIGHTING, PROCESSING EQUIPMENT, INSPECTION AND TEST EQUIPMENT, ROOM INFRASTRUCTURE

- ROOM IN WHICH THE CONCENTRATION OF AIRBORNE PARTICLE IS CONTROLLED, AND WHICH IS CONSTRUCTED AND USED IN A MANNER TO MINIMIZE THE
- INTRODUCTION
- GENERATION, AND
- RETENTION OF PARTICLES & MICROBES INSIDE THE ROOM

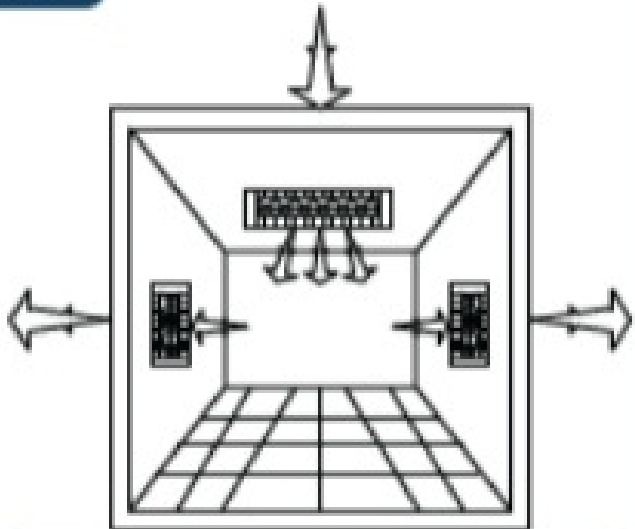


TO MAINTAIN THE PERFORMANCE OF CLEAN ROOM, ALL THE PARAMETERS MUST BE CHECKED AND VALIDATED AT REGULAR INTERVALS AS PER THE REGULATORY REQUIREMENTS OF THE LATEST VERSION OR SAY THE CURRENT GMP (GOOD MANUFACTURING PRACTICES). GMP IS GOVERNED BY FDA (FOOD & DRUG ADMINISTRATION) IN USA CLEAN ROOM PROCESS IS TESTED AND VALIDATED IN CONFORMANCE TO THE STANDARDS OF ISO 14644-2 : 2015

Purity classes for sterile zones						
Classification Number (N)	Maximum concentration limits (particles/m ³ of air) for particles equal to and larger than the considered sizes below.					
	0.1 μm	0.2 μm	0.3 μm	0.5 μm	1 μm	5.0 μm
ISO Class 1	10	2				
ISO Class 2	100	24	10	4		
ISO Class 3	1000	237	102	35	8	
ISO Class 4	10 000	2370	1020	352	83	
ISO Class 5	100 00	237 00	10 200	3520	832	29
ISO Class 6	1 000 000	237 000	102 000	35 200	8320	293
ISO Class 7				352 000	83 200	2930
ISO Class 8				3 520 000	832 000	29 300
ISO Class 9				35 200 000	8 320 000	293 000



Laminar Airflow



Conventional Airflow

WHAT IS A PARTICLE ?

- PARTICLE IS A VERY SMALL DISCRETE MASS OF SOLID OR LIQUID MATTER, USUALLY MEASURED IN MICRONS
- MICRON IS 1/1,000,000 OF A METER.
- A HUMAN HAIR IS 60-90 MICRONS. THE PROCESS OF CLEAN ROOM IS SIMILAR TO AN AHU OR AIR CONDITIONING PLANT BUT THE DIFFERENCE IS THE ADVANCEMENT IN DESIGN & QUALITY OF THE FILTERS USED. THE ADVANCED FILTERS USED IN CLEAN ROOM PROCESS ARE:
- ULPA FILTER (ULTRA LOW PENETRATION AIR)
- HEPA FILTER (HIGH EFFICIENCY PARTICULATE AIR)

GI - POWDER COATED CLEANROOMS



MODULAR PANELS ARE MADE UP PPGI SHEET HAVING 60-80 MICRONS & 15-25 GROSS LEVEL WITH PROPERTIES AS FOLLOWS:

- THERMAL & SOUND INSULATION
- RESISTANCE TO ABRASION & CHEMICALS
- EASY FOR MAINTENANCE
- CORROSION PROTECTION
- U.V. PROTECTION



Pre-Painted Cleanrooms



PRE-PAINTED WALL & CEILING PANELS ARE FABRICATED BY USING PRE-PAINTED SHEETS OF 0.60 MM THICKNESS THESE ARE BONDED ON GI FRAME WITH AN IN-FILL OF (PUF/PIR) FORMING A RIGID PANEL.

- THICKNESS : 50MM, 80MM & 100MM
- WIDTH : 1000MM
- HIGHT : UPTO 6 METERS
- PANEL CONNECTION : FRICTION TYPE
INTERLOCKING KEY FOR SPEEDY ERECTION &
DISMANTLING



GLASS-WOOL PANELS

IMPORTANCE OF CLEANROOM NOWADAYS, FOOD BORNE DISEASES ARE ONE OF THE MOST IMPORTANT FACTOR WHICH LEADS TO HEALTH PROBLEMS AROUND THE GLOBE. IN THE US 81 MILLION CASES AND 9000 DEATHS ARE CAUSED BY FOOD BORNE DISEASES. FOOD BORNE DISEASES OCCURRED BY FOOD CONTAMINATION, WHICH MAY BE THROUGH AIR, WATER, EQUIPMENT, PERSONNEL ETC. AMONG ALL AIR IS THE MOST IMPORTANT FACTOR WHICH NEEDS TO BE OVERLOOKED FOR MINIMIZING THE RISK OF FOODCONTAMINATION, AS IT CAN BE THE CARRIER OF TOXINS AND MICROORGANISMS TO THE FOOD PROCESSING PLANT. FOOD PROCESS AIR QUALITY REQUIREMENTS ARE A VERY IMPORTANT ITEM TO CONSIDER TO ASSURE CONSUMERS A HEALTHY PRODUCT. AIR CONTAINS ABOUT 35 MILLION PARTICLES OF 0.5 IM IN DIAMETER, OR LARGER, PER CUBIC METRE.

PARTICLE OF 200 TIMES SMALLER THAN A HUMAN HAIR CAN CAUSE MAJOR DAMAGE TO SENSITIVE EQUIPMENT APART FROM CLEANROOMS, THE CREATION OF STRUCTURES AND DEVICES WHICH CAN RESIST THE ENTRY OF DUST PARTICLE IS IMPOSSIBLE. ONE OVERSIZE PARTICLE SETTLING AT A CRITICAL POINT OF A CIRCUIT BOARD CAN CAUSE THE WHOLE BOARD TO FAIL.

GLASS WOOL PANELS ARE EXCELLENT FIRE RESISTANT PANELS THAT SUFFICE MYRIAD CONSTRUCTION APPLICATIONS. THESE PANELS ARE MADE FROM NON-FLAMMABLE GLASS FIBERS WHICH PREVENTS SPREAD OF FIRE. BEING COST-EFFECTIVE AND DURABLE, GLASS WOOL SERVES EXCELLENT INSULATION PURPOSES AND ACTS AS A BARRIER TO SPREAD OF FIRE.



PROJECTS



Airia Mall (Restaurant), Gurgaon

Rizz Palace





Rizzu Residence

Royal Banquet Hall



PROJECTS



CAMBRIDGE SCHOOL, NOIDA

ASIAN BUSINESS SCHOOL





COSTER INDIA PACKGING PVT LTD

Jain Residency





ROMSONS GROUP

RADISSON HOTEL



BHUTANI ALPHATHUM,CYBERT HUM,GRANDTHUM



DLF CYBER GREENS,CYBER CITY,GURGAON





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Thank you

