



# Chrisleen<sup>TM</sup>

A Turnkey solution provider.....

.....More than just a contractor

## BUSINESS Brochure

Chrisleen, since a decade, group of highly experienced multidisciplinary professionals providing Turnkey solutions to Pharma and other Industrial projects through exceptional project planning and execution methodology.

## **SPECIALIZED IN...**



- ▶ **Modular Cleanroom**
- ▶ **Heating Ventilation & Air Conditioning**
- ▶ **BMS/IBMS/EMS**
- ▶ **Lab Setups**
- ▶ **Utilities**
- ▶ **Electricians**
- ▶ **Modular Offices**
- ▶ **Flooring**
- ▶ **PEB/Mechanical Structures**
- ▶ **Facads Glazings**
- ▶ **Cleanroom Equipments**

# **ABOUT US**



## OUR MISSION

To provide innovative solutions with an emphasis on quality, integrity, costs, responsiveness, and timeliness.



## OUR VISION

Be the world's premier turnkey project organization by achieving extraordinary results for our customers, building satisfying careers for our people.

## INDUSTRIES:



Pharmaceuticals,  
Biotech



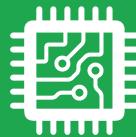
Laboratories



Hospitals



FMCG



Semiconductors



Data Centers



Solar Centers

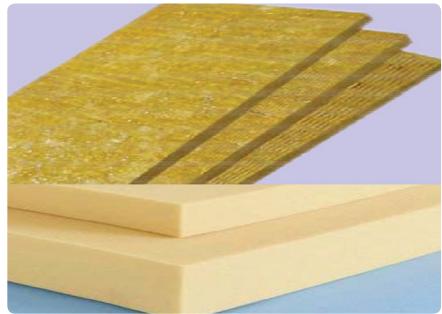


Automobile

# MODULAR CLEANROOM

Our Modular panel system can be integrated with a wide range of new or existing systems to coordinate any cleanroom facility or manufacturing facilities. Simplified construction methods and our Progressive/Non-Progressive systems helps minimize overall construction time.

- ▶ SS/PPGI/PCGI/HPL/PVC
- ▶ PUF/PIR/Rockwool
- ▶ 50/80/100 mm Thick
- ▶ Progressive/Non-Progressive
- ▶ Door and View Panels
- ▶ Full Glass Panels
- ▶ Fire Rated Panels
- ▶ Pre-formed Cutouts
- ▶ Walkable/Non Walkable Ceiling
- ▶ Inbuilt/Exposed RAR



A complete range of Partition and Ceiling panels are available to meet the technical specification of controlled environment rooms. Both ceiling/partitions are inert, non particle shedding, forming part of a cleanroom aseptic envelope to enable compliance with FDA validation procedures and GMP standards.

- ▶ PUF with density of 40 kg.
- ▶ EPS with fire safety level 02 Sb3
- ▶ Rock wool with fire holding time of 2.5 hours
- ▶ PIR (Poly isocyanurate) foam, fire resistance, ASTM E84
- ▶ Thermal conductivity 0.024 W/m.k till 600°C

# CLEANROOM EQUIPMENTS

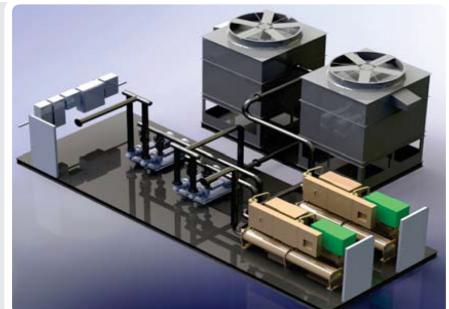
- ▶ Supply & Installation of clean equipments for pharmaceuticals includes,
- ▶ Dynamic passbox
- ▶ Static passbox
- ▶ Dispensing & Sampling Booth
- ▶ Laminar Air flow (vertical & horizontal)
- ▶ Reverse laminar air flow
- ▶ Stability Chamber
- ▶ Bio safety cabinet



# HVAC

By an in-house engineering team and a good relationship with quality suppliers, CCPPL can provide a smart and an efficient HVAC solution's for complex cleanroom projects as well as commercial/ industrial air conditioning. Which includes,

- ▶ Conceptual design
- ▶ Selection of equipments
- ▶ Procurement
- ▶ Erection and Commissioning
- ▶ Validation



## Products:

- ▶ Chiller Unit
- ▶ Air Shower
- ▶ Cooling Tower
- ▶ Forced Draft Ventilation Unit
- ▶ VRV, Condensing Unit
- ▶ Scrubber
- ▶ Air Handling Unit
- ▶ Heat Recovery
- ▶ Dehumidifiers
- ▶ Ducting and Insulations
- ▶ Ambiatiers
- ▶ Piping, valves and Insulations
- ▶ Air Washer

# HVAC

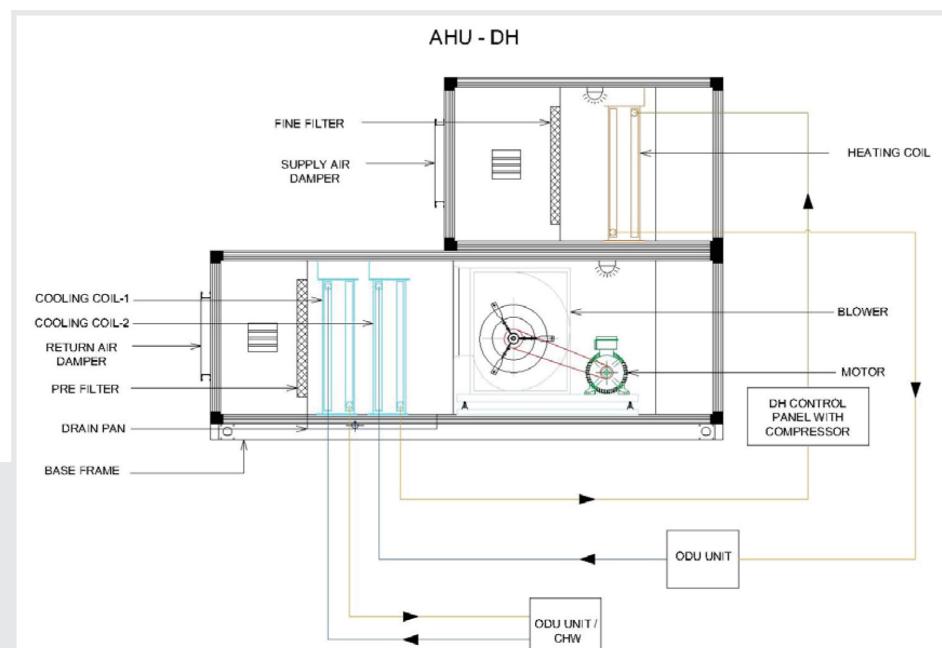
## AHU-DH

The AHU-DH removes the moisture through a process by continuous condensating the water droplets (moisture) at sub zero level and further air is treated on reheat coil, hence humidity is reduced upto 35%

Refrigeration based integrated dehumidification system has following advantages over conventional desiccant based system.

- ▶ Low capital investment
- ▶ No additional space requirement
- ▶ High energy performance
- ▶ High-adaptability to humidity control at part loads

Typical System schematic is as follows:



## Benefits Of DH-AHU System:

1. Ease of installation
2. Effective latent cooling
3. Independent control of temperature and
4. Flexibility of operations
5. Energy conservation: The innovative design shall help conserve energy in more than one way as follows:
  - A. By switching of DH system when low RH is not required
  - B. By minimizing reheating requirement
  - C. Providing reheat by compressor energy therefore saving entire hot water energy
  - D. High COP dehumidifier (3 to 3.5) versus 0.5 of desiccant based system

## BMS/IBMS/EMS

Design, Installation, commissioning of integrated Building Management System including online facility management complying to 21 CFR Part 11.

- ▶ HVAC atomization
- ▶ Fire Detection & Protection



- ▶ Centralized Access Control
- ▶ CCTV
- ▶ Public Address System
- ▶ Integration of all systems into IBMS
- ▶ Solar System/Windmill integration

## ELECTRICALS

Electrical solutions as per project needs. Supply, installation and commissioning of...

- ▶ Diesel Generators
- ▶ Transformers
- ▶ HT Panels
- ▶ LT Panels



- ▶ Synchronizing Panels
- ▶ Cables and cable trays
- ▶ Cleanroom Lighting
- ▶ Industrial Lighting
- ▶ External Lighting
- ▶ Earthing
- ▶ Security System
- ▶ Flame proof fittings
- ▶ Cleanroom Switch/Sockets

## UTILITIES

Solution for complete plant utility equipments, tanks, chimneys and piping for...

- ▶ Compressed Air
- ▶ Industrial Steam
- ▶ Pure Steam
- ▶ Purified Water



- ▶ Water for Injection
- ▶ Raw Water
- ▶ Process Cooling Water
- ▶ Nitrogen
- ▶ LPG
- ▶ Oxygen
- ▶ Oil
- ▶ Vacuum
- ▶ Fire Fighting

## FLOORING

Flooring Solutions for various applications start from cleanrooms to industrial requirements.

- ▶ Anti static Epoxy Flooring
- ▶ Heavy Duty Epoxy
- ▶ Vinyl Flooring



- ▶ Slip Retardant Flooring
- ▶ Carpet Flooring
- ▶ Stone Flooring
- ▶ Vinyl Tiles
- ▶ PU Flooring

# GLOBAL PRESENCE & CLIENTELE





## MODULAR OFFICES

Complete solution for modular office setup including design supply and installation.

- ▶ Modular office furniture
- ▶ Modular office partitions
- ▶ False Ceiling



- ▶ Electricals
- ▶ LAN Cabling
- ▶ EPBX Setup
- ▶ Public Address System
- ▶ Air Conditioning
- ▶ Access Control

## LAB SETUPS

Turnkey lab setups including lab furniture along with modular panels and HVAC

- ▶ Modular Lab Furniture
- ▶ Fume Hoods
- ▶ Vertical/Horizontal LAFs
- ▶ Working Table



- ▶ Storage Cabinet
- ▶ Reagent Racks
- ▶ Spot Gas Extractor
- ▶ Eye Wash
- ▶ Safety Showers
- ▶ Lab Stool/Chairs
- ▶ Table Top/Fume Hood Gas Valves
- ▶ All Electrical Utilities

## PEB / MECH. STRUCTURES

PEB and structural steel construction best suits for fast track projects.

- ▶ Pre-engineered Structures
- ▶ External Wall Panels
- ▶ Insulated Steel Roofing
- ▶ Mezzanine Structures



- ▶ Equipment Platforms
- ▶ Checkered Plate Walkways
- ▶ Pipe Racks
- ▶ Steel Grid-Work For Ducting and Ceiling Supports

## FACADE GLAZING

Chrisleen provide sustainable Glass/ACP facade solutions with the practical functions of thermal insulation, Acoustic insulation, Fire Protection, Safety and Security etc.

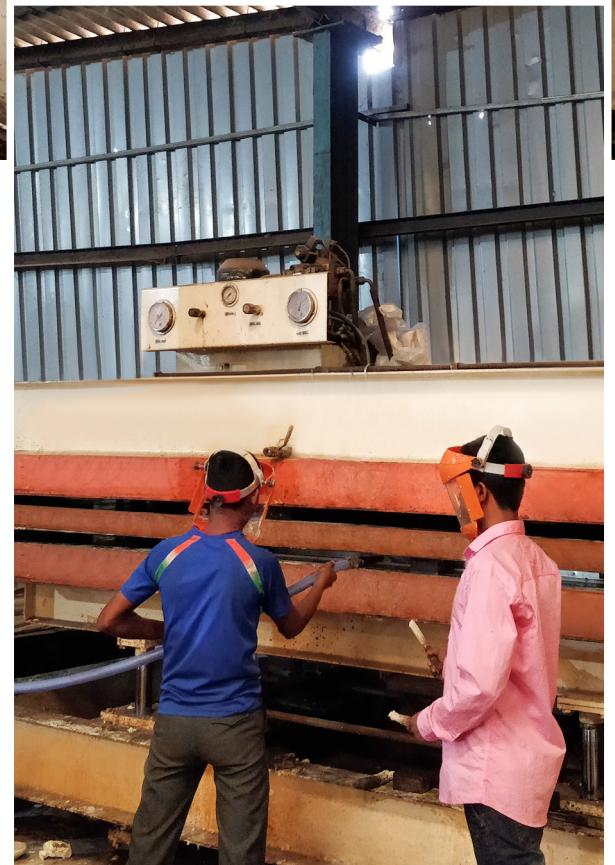


- ▶ Structural Glazing
- ▶ Spider Cladding
- ▶ Windows and Doors
- ▶ Aluminium Composite Panels
- ▶ Wall Cladding

## OUR FACTORY

An ISO 9001:2008 Certified State of Art manufacturing facility with the production capacity of 300 SqMtr per day, to ensure timely supply and execution of projects. Spread across area of 25000 sqft







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