

Trimax Bio Sciences (P) Limited

Organization & Facility Overview

 **T**-trust.  **R**-relation.  **I**-integrity.  **M**-mutual.  **A**-attitude.  **X**-extramile.

	Board of Directors	Covers Information about Education, Expertise & Assignments.
	Facility Strengths	Strengths and facility summary.
	Infrastructure	Providing the Status of Existing & Planned Infrastructure.
	Site Overview	Aerial view of the facility, constructed building sft
	Facilities & Equipment	Describing the Available Facilities, Photos & Equipment Summary.
	Licensed Products	Information about Licensed Products
	API's	List of API's ready to manufacture & supply.
	Future Plans	Sharing the Future Plans in terms of Possible Infrastructure Creation.
	Conclusions	Explaining the Strengths of Facility and Team & Looking Forward for Association.
	Attachment Slides	Details of Additional Information Necessary to Resolve Clarifications if any.

Board of Directors

Technical Operations

Support Operations



Dr. K. Nageswara Rao (Dr KN).

Aged 48 years, M.Sc & PhD in Chemistry having 20 years of Experience in R&D of Pharmaceutical Bulk Drug Industries. Associated with Mylan, Matrix, Veera Labs and GITAM University. He is Leading the Organization as Director for Research & Development, IPR and Corporate Affairs.



Mr. Ch. Murali Krishna.

Aged 42 years, Electronics Engineer having 22 years of Experience in Business Planning, Bidding, Feasibility Studies, Project Management, Design of Mobile Telecom Networks. Associated with Saudi Telecom, LCC, Marconi, MSI, France Telecom, Etisalat, TATA & RPG Groups. He is Leading the Organization as Chairman of the Board.



Mr. Y. Suresh Babu.

Aged 45 years, M.Sc in Chemistry having 21 years of Experience in Quality Control & Assurance of Pharmaceutical Bulk Drug Industries. Associated with Mylan, Matrix, Vorin Labs, Divis and Natco. He is Leading the Organization as Director for Quality & Regulatory Affairs.



Mrs. K. Jagadeeswari.

Aged 40 years, M.Sc in Mathematics having 6 years of Experience as Managing Director in Agri Infrastructure Business (Cold Storages). She is Associating the Organization as Managing Director.



Mr. Vikram Vanama.

Aged 36 years, M.Tech in Chemical Engg from IIT Chennai having 14 years of Experience in Plant Engineering, Technology Transfer and R&D of Pharmaceutical Bulk Drug Industries. Associated with Mylan, Matrix and Saraca Labs. He is Leading the Organization as Director for Technology Support & Business Development.



Mrs. Ch. Usha Rani.

Aged 33 years, B.A in Mathematics having 6 years of Experience as Director in Agri Infrastructure Business (Cold Storages). She is Associating the Organization as Promoter Director.

Facility strengths

Strength

Facility summary

1 Team

- Established by Well Qualified and Highly Skilled Young Generation Entrepreneurs.
- Dedicated, Committed and Hardworking Nature.

2 Project Overview

- Built-up Area of 17,967 Sq Meters.(Civil Completed).
- Facility Area of 8.39 Acres (33,955 Sq Meters).
- Project Cost of Rs 55 Crores.
- Supporting Infrastructure, Related Licenses and Permissions Obtained for Future Expansion.

3 Location Facts

- Located in Raichur which is 180 Km from Hyderabad.
- Inside Chemical Zone of Industrial Area Surrounded by Bulk Drug Companies (Shilpa Medicare & Raichem).
- No Power Cuts, Plenty of Water & Human Resources, Connected with Road, Rail and Air Transport.

4 Quality

- 21 CFR compliant software for analytical systems
- Good Documentation
- Integrity in systems
- Adopting best practices

5 Strengths

- Very Good Research and Development Facilities.
- Latest Equipment in Quality Control Lab.
- Massive Infrastructure & Utmost Safety Environment.
- High Skilled Technical & Management Staff.

6 GMP

- Facility dizned to meet the regulatory requirements
- Local GMP is available
- WHO GMP documentation is under progress

7 MF-1

- Itermediate area- 50.0 KL
- SSR Volumes- GLR Volumes-
- Pharma Area- 10.0 KL
- SSR Volumes- GLR Volumes

8 MF-5

- Itermediate area- 10.0 KL
- SSR Volumes- GLR Volumes-
- Hot oil system for vacuum distillation
- Cryo reaction facility available

9 MF-6

- SSR voume is 4.6 KL
- 1.6 KL Hydrogenation reactor with 1.0 Kg working pressure
- SSR- 3.0 KI for general reaction purpose

10 Water purification system

- Primary RO of 10.0 m3/ hr output.
- Secondary RO of 3.0 M3/hr output
- EDI- 2.5 M3/ hr out put.
- 2.0 KI storage and distribution system

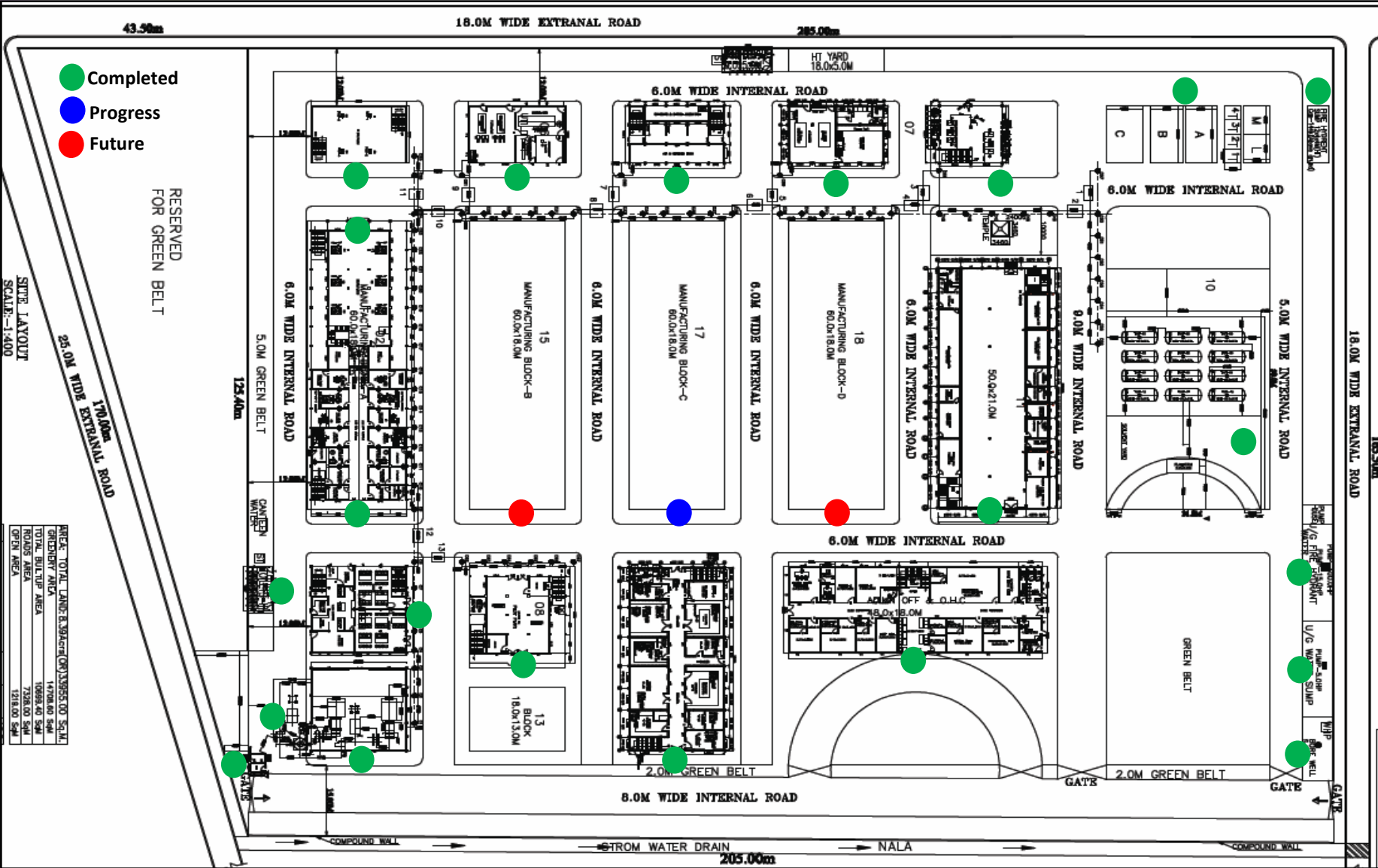
11 Microbiology Lab

- Four Incubators are installed
- Two Auto clave available
- LAF is available

12 Quality control lab

- Three HPLC systems
- Two GC system (one Head space system)
- Polarimeter, UV, IR
- Three auto titrators
- pH, Metling point appratus, Conduivity meter etc.

Infrastructure (Plan Overview)



Site Overview



Existing Infrastructure		
S.No	Name of the Existing Facility	Area Sq.Ft
1	Manufacture-1 (Main Production Area)	30,000
2	Manufacture-5 (Pilot Scale Production)	10,000
3	Manufacture-6 (Hydrogenation Block)	3,000
4	Quality Control (Innovation Block GF)	7,400
5	Research & Development (Innovation Block FF)	7,600
6	Solvent Recovery Block	11,625
7	Ware House	23,000
8	Administration Office	24,000
9	Power House	4,700
10	Utility-1	5,000
11	Utility-2	800
12	Boiler House	4,650
13	Canteen	3,500
14	Quality Assurance	3,500
15	Multiple Effect Evaporator	6,200
16	Fire Hydrant	1,100
17	Solvent Storage	7,000
18	Purified Water System	2,100
19	Microbiology Lab	1,750
20	Security & Visitors	1,000
22	ETP Tanks	3,000
23	Manufacture-3 (Main Production Area)	30,000
24	Automatic Hush & Ash Handling Area	2,400
Total Facility Builtup Area Sq.Ft (As of Now)		193,325

Facilities & Equipments – Manufacture-1

Manufacturing -1 Overview



Intermediate Area



Pharma Area



1 Description

- Named as “**Dr Suzuki**” Manufacturing Facility who is Inventor of Suzuki reaction, the organic reaction of an aryl- or vinyl-boronic acid with an aryl- or vinyl-halide catalyzed by a palladium (0) complex & Noble Prize Winner in 2010
- Intermediate Area of 15,750 Sq Ft.
- 2 Pharma Areas Each of 3,350 Sq Ft for API with GMP Facilities.
- Utility Area 7,550 Sq Ft (AHU, Electrical Panel , Cooling towers , Vacuum Pumps)

2 Equipments

- SS Reactors Qty of 16 No.s (1KL ~ 5KL). Glass lined Reactors Qty of 7 No.s (1.6KL ~ 4KL).
- Heat Exchangers, (SS316 to SS Reactors, Graphite Condensers to GL Reactors).
- Centrifuges Qty 8 No.s (SS316 36 inch – 48 inch, SS316 Halar lined 36 inch – 48 inch)
- Drying (Tray Driers 5 No.s, Vacuum Tray Driers 2 No.s, Rota Cone Vacuum Driers 2 No.s)

3 Capacities & Features

- SS Reactor Volumes – 39.25 KL
- GLR Reactor Volumes.- 18.2 KL
- SS Reactors equipped with various agitators – Anchor, Pitched blade turbine, Disc Turbine, Super Impeller to suit different process applications and variable frequency drives . All reactors provided with primary heat exchanger followed by secondary heat exchangers
- Glass lined reactors (GLR) procured from GMM with Agitators – Anchor ,Curved blade turbine . Accurate temp sensing with tantalum tip, Equipment designed to provide minimum liquid stirring and temperature sensing. All GLR’s provided with Graphite condensers
- Centrifuge equipment has all safety features – vibration switch, variable frequency drive, Inert nitrogen purging, hydraulic full body opening, door interlock
- Dryers will meet the different process requirements

Facilities & Equipments – Innovation Centre

Innovation Centre Overview



QC Lab & Equipment View



R & D Lab Equipment View



1 Description

- Named as "**E.J. Corey**" Innovation Centre who is Inventor Corey-Itsuno reduction, Corey-Fuchs reaction, Corey-Kim oxidation Corey Winter olefin synthesis, Corey-House-Posner-Whitesides reaction Johnson-Corey-Chaykovsky reaction, Corey-Seebach reaction and Noble Winner in 1990.
- Built up Area of 15,000 Sq Ft.
- Quality control in Ground floor 7,400 Sq Ft with all facilities & Research and Development in First floor 7,600 Sq Ft with all facilities.

2 Equipments

- Quality control department houses – HPLC's , GC's , UV, IR, Auto titrators, Driers , Stability chambers, balances , Polarimeter, Milli Q water
- Research and Development houses – Fume hoods , Rota Vapors , Vacuum pumps, Chillers , Walk in fume hoods, dedicated HPLC, Auto clones, Vacuum driers, Tray Driers.

3 Special Features

- Analytical equipment connected with Server for 21 CFR compliance.
- Power supply to All the instruments through 60 KVA UPS.
- HPLC and GC instruments equipped with auto sampling facility.
- Quality control department houses highly skilled, experienced professionals who has exposure to international audits US FDA, TGA, WHO and customer audits Ranbaxy, Cipla, GSK, Teva. Team has vast experience in method development , method validation , 21 CFR compliance requirements and cGMP requirements.
- Research and Development houses highly qualified professionals in organic synthesis . Team has more than 20 years of experience in the development , optimization of API's , scale up and commercialization.

Facilities & Equipments – Solvent Recovery Block

Distillation Column Overview



Equipment View



Equipment View



1 Description

- Named as **“Warren Lee McCabe”** Solvent Recovery Block who is One of the founders for the profession of chemical engineering and author of Unit Operations of Chemical Engineering and Elements of Chemical Engineering, his design methods vastly used in design of Solvent Separations.
- Built up Area of 11,625 Sq Ft.

2 Equipments

- Distillation columns 500 mm dia with 10 meters of structured wire gauze packing with theoretical plates of 6 nos per meter.
- Distillation column 700 mm dia with 10 meters of structured wire gauze packing with theoretical plates of 9 nos per meter.

3 Capacities & Features

- 500 mm dia Distillations column houses suitable heat transfer areas for evaporation (6 KL SS reactor , 30 m2 Reboiler) and condensation (60 m2 primary, 12 m2 vent condenser, 6 m2 top product cooler, 12 m2 bottom product cooler) – design basis 2000 L/hr methanol boil up.
- 700 mm dia Distillations column houses suitable heat transfer areas for evaporation (6 KL SS reactor , 40 m2 Reboiler) and condensation (60 m2 primary, 12 m2 vent condenser, 6 m2 top product cooler, 12 m2 bottom product cooler) - design basis 3000 L/hr THF+ Toluene boil up.
- Distillation columns can be operated batch as well as continuous mode base on capacities to be processed.
- Chilled water + 5 deg centigrade provided to Vent condensers.

Facilities & Equipments – Manufacture-5

Manufacturing -5 Overview



Pilot Scale Equipment View



Microbiology Lab View



1 Description

- Named as “**Dr. Negishi Eiichi**” Manufacturing Facility who is Inventor of Negishi coupling (palladium catalyzed cross couplings in organic synthesis) and Noble Winner in 2010.
- Manufacturing built up Area of 10,000 Sq Ft.
- Microbiology lab built up Area of 1,750 Sq Ff.

2 Equipments

- SS Reactors Qty of 4 No.s. (0.25KL ~ 1.0KL). and Glass Lined Reactors (GLR) Qty of 3 No.s (0.25KL ~ 1.6KL).
- Heat Exchangers, (SS316 to SS Reactors ,Graphite Condensers to GLRs).
- Centrifuge (SS316 – 36 inch and SS316 halar lined -36 inch)
- Dryers Qty of 2 No.s (Vacuum Tray Drier – 12 trays , Tray Drier – 12 trays)

3 Capacities & Features

- SS Reactor Volumes – 2 KL. SS Reactors equipped with various agitators – Anchor, Pitched blade turbine to suit different process applications and variable frequency drives . All reactors provided with primary heat exchanger followed by secondary heat exchangers.
- GLR Reactor Volumes.- 2.5 KL. GLR’s procured from GMM with Agitators – Anchor ,Curved blade turbine . Accurate temp sensing with tantalum tip, Equipment designed to provide minimum liquid stirring & temperature sensing. All GLR’s are with Graphite condensers.
- Centrifuge equipment has all safety features – vibration switch, variable frequency drive, Inert nitrogen purging, hydraulic full body opening, door interlock & Dryers will meet the different process requirements.
- High Vacuum distillation reactor with separate hot oil circulation system, High vacuum 1 torr (2 stage steam with 1 water jet, 0.001 m bar direct drive vacuum pump
- PP FRP quenching reactor to handle exothermic quenching reactions which is connected with suitable scrubber system
- Microbiology lab equipped with incubators, autoclaves, laminar air flow (LAF) , LAF room is class 10,000 , Rest of the lab ls class 100,000.

Manufacturing -6 Overview



Air compressor Equipment View



Nitrogen Equipment View



1 Description

- Named as **“Dr John Dalton”** Manufacturing Facility who is Inventor of Modern atomic theory, Law of Multiple Proportions and Dalton's Law of Partial Pressures and UK's Royal Society of Chemistry is named after Dalton (Dalton Division).
- Manufacturing Built up Area of 3,000 Sq Ft for Hydrogenation and Corrosive Reactions.

2 Equipments

- High pressure Auto Clave SS Reactors Qty of 1 number (1.6 KL).
- Nitrogen plant.
- Air compressor.

3 Capacities & Features

- Auto Clave Hydrogenation Reactor equipped with Gassing turbine and hollow shaft with variable frequency drive to meet different hydrogenation reaction requirements.
- The reactor is designed for 15 kg/cm² pressure with double mechanical seal and thermosyphon cooling circulation to seal.
- Separate Vacuum pump 150 m³/hr for intertization.
- Separate Hot water circulation system 10 m³/hr at 40 – 90 deg centigrade.
- Nirmal make Hydrogenation manifold and pressure reducing station 50 m³/hr flow at 200 kg/cm² to 1 to 5.5 kg/cm² pressure which can house 6 hydrogen cylinders and 1 nitrogen cylinder
- Nitrogen Plant – 30 Nm³/hr at 6 kg/cm² pressure. Purity of the nitrogen is 99.5%. It has dedicated air compressor capacity of 80 CFM at 7 kg/cm².
- Air compressor – Non lubricated air cooled 136 cfm at 7 kg/cm² pressure.

Facilities & Equipments – Boiler House

Boiler House Overview



Boiler Equipment View



Boiler Equipment View



1 Description

- Named as “James Watt” Boiler House who is Inventor of Steam Engine.
- Facility built up Area of 4,650 Sq Ft.
- Separate Husk & Ash Storage Sheds of 1,200 Sq Ft.

2 Equipments

- 4 Ton /hr steam generation Thermax multi fuel CPD40 boiler at 10.54 kg/cm² pressure.
- Effimax – Forbes Marshall Fuel efficiency monitoring system.
- Pressure powered condensate transfer pumps.
- Husk handling system & Husk Bunkers
- Ash Handling system & Ash Silo.

3 Capacities & Features

- 4 Ton/ hr steam generation boiler equipped with Air pre heater, Multi cyclone Dust collector and Bag filter
- 2.5 Ton/h husk handling system and 50 m³ husk bunker
- 1 Ton/h pneumatic ash handling system and Ash silo 50 m³
- Effimax system to monitor boiler efficiency – Steam flow meter, steam temp, Oxygen sensor , Automatic blow down system supplied by Forbes Marshall
- Steam traps supplied by Forbes Marshall for efficient recovery of condensate
- Pressure powered condensate transfer pumps for transferring collected condensate to boiler.
- Space Reserved for Future 6 Ton/hr boiler in Addition to the Present 4 Ton/hr Boiler.

Facilities & Equipments – Utilities-1

Utilities -1 Overview



Chilling Plant Area (-20 deg C)



Purified Water System



1 Description

- Named as “**Thomas Graham**” Utilities-1 block, His studies on the diffusion of gases resulted in "Graham's Law", His discovery of dialysis, which is used in many medical facilities today, was the result of Graham's study of colloids items.
- Chilling Plant built up Area of 3,000 Sq Ft.
- Purified water system built up area of 2,100 Sq Ft.

2 Equipments

- Chilling plant 100 TR +5 deg centigrade.
- Chilling plant 60 TR – 20 deg centigrade.
- purified water generation system and distribution system.
- cooling tower.

3 Capacities & Features

- Chilling plant 100 TR +5 deg water circulation system – 60 m3/hr at 30 meter head to AHU system and secondary condensers. The compressor is semi hermetic screw bitzer make . Condenser and evaporator are alfa laval make , carlel make microprocessor to monitor the chilling plant.
- Chilling plant 60 TR -20 deg methanol +water circulation system – 45 m3/hr at 30 meter head to reactors to control exothermic reaction and other process requirements. The compressor is open type screw bitzer make . Condenser and evaporator are alfa laval make , carlel make microprocessor to monitor the chilling plant.
- 1.8 m3/hr USP grade purified water generation system (RO + EDI + UV) and distribution system (SS316 L electro polished lines, zero dead leg valves and UV).
- 300 TR cooling tower at 30 deg centigrade.

Facilities & Equipments – Power Control Center

Utilities -2 Overview



Power Generation Area



Power Distribution Area



1 Description

- Named as “**Michael Faraday**” Power House, contributed to the fields of electromagnetism and electrochemistry. His main discoveries include those of electromagnetic induction, diamagnetism and electrolysis.
- Facility Built up Area of 3800 Sq Ft.

2 Equipments

- 500 KVA DG set.
- Power control center.

3 Capacities & Features

- 500 KVA Volvo make DG set.
- Power control Center.
- 1500 KVA transformer.
- CTPT.

Facilities & Equipments – MEE

MEE Block Overview



MEE Equipment Area



MEE Equipment Area



1 Description

- Named as “**Norbert Rillieux**” Multiple effect evaporator block who is the inventor of Multiple-effect evaporator, an energy-efficient means of evaporating water. This invention was an important development in the growth of the sugar industry.
- Facility Built up Area of 6,200 Sq Ft.

2 Equipments

- Stripper.
- 3 effects multiple effect evaporator.
- Agitated thin film drier.

3 Capacities & Features

- Stripper to evaporate 165 kg/hr low boil solvents from the effluent.
- Multiple effect evaporator (3 effects) – 1320 kg/hr water evaporation (30 KLD water evaporation) low steam consumption per kg water evaporation.
- Agitated thin film drier – 150 kg/hr water evaporation will ensure the effluent is evaporated and dry powder is collected. This ensures the zero liquid discharge.
- 200 TR cooling tower.
- Condensate recovery system.

Facilities & Equipments – ETP, Fire Hydrant & RO.

ETP Tanks Overview



Fire Hydrant System Overview



Primary RO System Overview



1 Description

- Named as “**Jacobus Henricus van 't Hoff, Jr**” primary RO and water storage, who is Inventor of Chemical kinetics, chemical equilibrium and osmotic pressure and The first winner of the Nobel Prize for Chemistry.

2 Equipments

- ETP tanks Area of 3,000 Sq Ft.
- Water purification area 2,100 sq.Ft.
- Fire hydrant tanks area 1,100 sq.Ft.
- Neutralization tank, equalization tank, High TDS and COD tank, ammonia effluent tank , Press filter
- 9.0 m3/hr primary RO generation system.
- 300 Kl water storage tank with Jacky pump 10.8 m3/hr at 70 m head, main pump 137 m3/hr at 70 m head and diesel driven pump 137 m3/hr at 70 m head - with automatic control panel.

3 Capacities & Features

- ETP tanks are above the ground tanks as per the PCB norms and tanks are lined with acid proof tiles.
- Filter press to filter suspended solids from effluent – 2,000 tons holding capacity.
- Automatic pump switch on facility for fire hydrant system. The fire hydrant riser and hose reel provided to all elevated buildings , Fire brigade connection . 150 mm fire hydrant ring and risers with hose reel provided at all buildings.
- Primary RO quality will be less than 100 ppm total dissolved solids.

Facilities & Equipments – Ware House

Ware House Overview



Ware House ground Floor



Ware House 1st Floor



1 Description

- Named as “**Sir Chandrasekhara Venkata Raman**” ware house Facility who is Inventor of Raman effect & Noble Winner for physics in 1930.
- Raw material storage Area of 21,000 Sq Ft.
- Engineering material storage area 1,600 Sq Ft.
- Finished goods dispensing area 400 Sq Ft.

2 Equipments

- 6 Dispensing rooms with separate AHU's
- Cold storage at 2 -8 deg centigrade with a capacity of 5000 kgs holding facility.
- De-dusting area with air curtains
- AHU for packing material storage.
- Flame proof electronic weighing balances

3 Capacities & Features

- Fire safety system.
- Well ventilated area.
- Adequate number of sampling and dispensing rooms for liquid raw materials and sold raw materials.
- Unloading platform supported with roof.
- Pallets for raw material storage, Slotted angle racking for engineering materials.

Facilities & Equipments – Solvent Storage Yard.

Solvent Storage Yard Overview



Solvent Tanks Area



Solvent Dispensing Area - Pipelines



1 Description

- Named as “**James Clerk Maxwell**” solvent storage yard who is Inventor of Maxwell–Boltzmann distribution, demonstrated the electric and magnetic fields travel through space in the form of waves. In 1854 & 1857 smith and Adams Prize res. at the University of Cambridge.
- Bulk Solvent storage Area of 7,000 Sq Ft.

2 Equipments

- 25 KL MS under ground horizontal tanks- 12 nos.
- 8 no of 1.2 KL dispensing tanks.
- Each tank supported with dispensing pump.
- Each tank provided with flame arrestor.

3 Capacities & Features

- Minimum solvent loss due atmospheric changes.
- Gravity unloading facility.
- 50 KL for methanol and 50 KL for Toluene storage facility.

Facilities – Quality assurance

QA & Regulatory Block Overview



QA Department



QA Training Area



1 Description

- Named as “**Samuel Finley Breese Morse**” quality assurance Facility who is Inventor of Single-wire telegraph system and Morse code & In 1855 Great Gold Medal of Science and Arts from Emperor of Austria and In 1851 Prussian gold medal for scientific merit from the King of Prussia.
- Quality assurance Area of 3,500 Sq Ft including QA work area, library, document storage and training rooms.

2 Facilities

- 18 seating facility for quality assurance team.
- Each work station is supported with desk top, internet, intercom.
- Network Printers & Photocopiers.
- Compactor/ slotted angle racks.

3 Capacities & Features

- 1500 mm x 1500 mm comfortable seating place.
- 20 Staff locations in QA area.
- 50 Seats capacity in training hall.
- Access control system provided to archival room for security and safety.
- Total facility covered with smoke detectors and fire alarm system.

Facilities – Administration facility

Administration Block Overview



Conference Hall



Security & Visitors Area



1 Description

- Named as “**Mahatma Gandhi**” Administration Facility ,he has dedicated his life for freedom fighting and social welfare on the way of Non-Violence & He is known in India as the Father of the Nation.
- Total Built up area of 24,000 Sq Ft with Future expansion possibility of additional 4,800 Sq. Ft.
- Regulatory Area of 1,300 Sq Ft , Business development area of 1,200 Sq.Ft , Supply Chain area of 1,200 Sq. Ft, Projects area of 550 Sq Ft, EHS area of 350 Sq.Ft, HR-Admin area of 650 Sq.Ft, Security,OHC area 350 Sq. Ft, Accounts Area of 650 Sq.Ft & Management area of 4,800 Sq.Ft.

2 Facilities

- 125 seating facility for Administration team.
- Each work station is supported with desk top, internet, intercom.
- Network Printers & Photocopiers.
- Compactor/ slotted angle racks.

3 Capacities & Features

- 1500 mm x 1500 mm comfortable seating place for each work station.
- Two discussion rooms for the suppliers.
- Access control system provided to archival room for security and safety.
- Total facility covered with smoke detectors and fire alarm system.
- Space available for staff offices from contract manufacturing companies and manage service providers.

- **Trimax Bio Sciences is Ready to Produce the Following API's..**
 - **Atorvastatin Calcium Trihydrate (USP for export)**
 - **Pregabalin**
 - **Naftopidil**
 - **Pantoprazole Sodium Sesquihydrate**
 - **Propafenone Hydrochloride**
 - **Meclizine Dihydrochloride Mono Hydrate**

- **Trimax Bio Sciences Pvt. Ltd. was audited and approved by the following companies for the manufacturing of Active Pharmaceutical Ingredients & Intermediates of Active Pharmaceutical Ingredients.**
 - **M/S Laurus Laboratories Pvt. Ltd.**
 - **M/S Inogen Laboratories Pvt. Ltd. (GVK BIO)**
 - **M/S Dupont – Approved Contract Manufacturing site for Inogen Laboratories Pvt. Ltd (GVK BIO)**
 - **M/S Lupin Limited**
 - **M/S Dr. Reddys Laboratories**
 - **M/S Apicore Pharmaceuticals Pvt. Ltd.**
 - **M/S Sun Pharmaceuticals Pvt. Ltd.**
 - **M/S Emcure Pharmaceuticals Ltd.**
 - **M/S Mylan Laboratories**
 - **M/s Bal Pharma**

Future Plans & Expansion Scope

Infrastructure Creation...

- Civil Structure of 2nd Manufacturing Block of 30,000 Sq Feet is completed. Equipment will be planned based on business requirement.
- Facility already obtained License & Permission for 3rd & 4th Manufacturing Blocks of Each of 30,000 Sq Feet.
- Civil Works, Support Infrastructure Completed for Additional 6 TPH Boiler, Additional 750 KVA Power Generator & Additional MEE.
- Civil Works, Support Infrastructure Completed for Additional 100 TR -20 deg, 150 TR +5 deg Chilling Plants, Liquid Nitrogen Cooling System.
- Civil Works, Support Infrastructure Completed for Doubling the R&D and QC Lab Instruments.
- Additional Equipments Can be Immediately Added based on Requirements.

Talent Management...

- Infrastructure is Ready and the Planned for In House & External Training Covering the below Topics.....
- Management.
- Organizational Behavior.
- cGMP & Regulatory Process.
- Health & Safety.
- Environment.
- Technical Skill Development.

■ Trimax Bio Sciences will be Committed to Provide the Additional Requirements on Priority Basis for immediate Association .

Conclusion

- **Trimax Biosciences is a New cGMP unit.**
- **All Facilities are in Accordance to the Guidelines of USFDA, EMEA and India's WHO.**
- **Trimax Team is of Highly Experienced People and can Handle the Typical Reactions & Support the Regulatory Issues.**
- **Trimax has Effluent Water Treatment Facility that includes MEE and ATFD to Meet Zero Liquid Discharge.**
- **Trimax has the Semi Automatic Solvent Dispensing System to Meet Process Demand.**
- **Trimax Facility Provided with Advanced Safety Systems.**
- **Trimax Bio Sciences is Implementing cGMP based Software Packages for QA, QC, RA, Logistics & Manufacturing Operations.**

