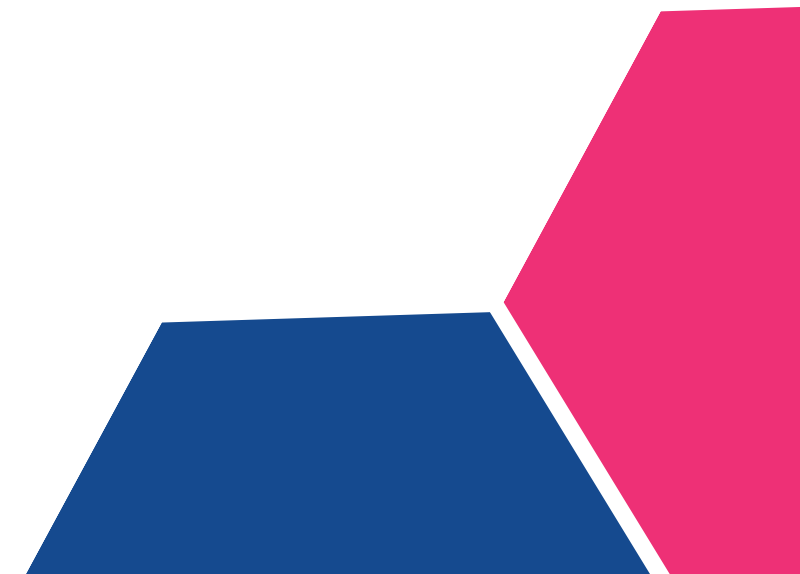


Deutero Corporate Overview

2025

Clearsynth

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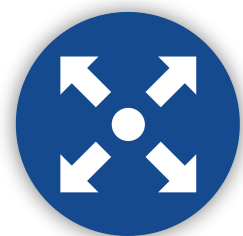


Clearsynth at a Glance



LEADING THE WAY

Leader in Deuterium Chemistry and trusted partner for Reference Standards, Stable Isotope Labelled Compounds, Building Blocks, Fine Chemicals & Intermediates.



EXPANDING HORIZONS

World's Largest Inventory of Stable Isotope Labeled Compounds



WE OPERATE 24X7

Global Presence :

Sales & Stock Points in Mumbai, Hyderabad, Toronto, Boston & Korea. Coming Soon in China.

Sale Offices in Europe & Japan.



INSPIRING INNOVATIONS

Extensive Product Range Covering Production, Research and Analytical Testing



OUR COMMITMENT

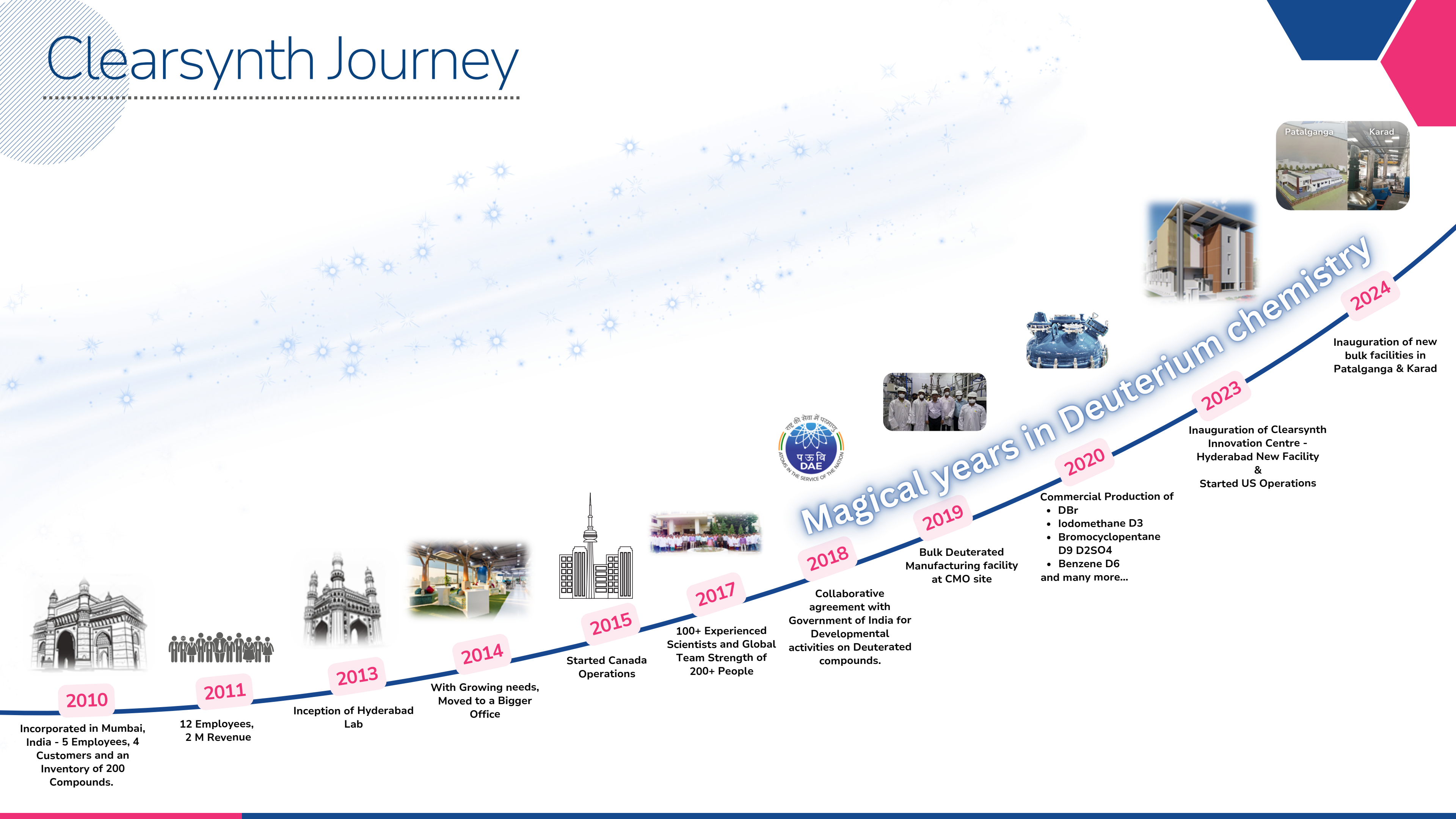
Global Compliance to Quality & Delivery



ELEVATED EXPERTISE

Highly Experienced Scientific and Management Team

Clearsynth Journey



2010

Incorporated in Mumbai, India - 5 Employees, 4 Customers and an Inventory of 200 Compounds.

2011

12 Employees, 2 M Revenue

2013

Inception of Hyderabad Lab

2014

With Growing needs, Moved to a Bigger Office

2015

Started Canada Operations

2017

100+ Experienced Scientists and Global Team Strength of 200+ People

2018

Collaborative agreement with Government of India for Developmental activities on Deuterated compounds.

2019

Bulk Deuterated Manufacturing facility at CMO site

2020

Commercial Production of

- DBr
- Iodomethane D3
- Bromocyclopentane D9 D2SO4
- Benzene D6 and many more...

2023

Inauguration of Clearsynth Innovation Centre - Hyderabad New Facility & Started US Operations

2024

Inauguration of new bulk facilities in Patalganga & Karad

Leadership Team



Vijay Ambati
Founder and Chairman



Biren Parekh
Executive Director,
Corporate Strategy & Operations.



Dr. K. Sakthivel
Chief Scientific Officer
Chemistry Services



Mallikharjuna K.
Director
Quality Services



Sharad Tripathi
Associate Vice President
Sales & Business Development



Sastry TVRS
Director Compound Delivery &
Strategic Sourcing



Nagasreenivasu Akula
General Manager
Catalog Sales



Satish Bhatia
General Manager
Business Development



Anal Ganai
Senior Manager
Deutero Sales



Rahul Vohra, Ph.D.
Chief Scientific Officer
Research & Development



Shermishtha Sharma
Manager-Sales & Marketing
(North America)



Dr. Naga Siva Rao
Assistant Director - Chemistry
R&D

Major Business Verticals

CATALOG



Reference Standards and Research Chemicals

- Stable Isotopes
- Impurities
- Glucuronides
- Metabolites
- Fine Chemicals
- Building Blocks
- Catalysts
- Organometallics
- High purity Inorganics

DEUTERO



Development & Manufacturing of Deuterated Bulk reagents, Intermediates & Novel Final compounds

- End Application - OLED
- Semiconductor
- Pharma and Optical Fibers.

CRDMO



Contract Development & Manufacturing of Novel compounds

DEUTERATED DRUG DISCOVERY



In-house Corporate Program of Novel molecules with deuterium incorporation for enhancing its profile

- Total patents filed: 51
- Patent granted: 2

ULTRAPURE GASES



Supply of commercial gases for industrial application

- Deuterium Gas
- Helium Gas
- Fluorine Gas

Clearsynth In Numbers

359,000+
Compounds in
Catalog



400+
Employees



4,500+
Active Global
Customers



80,000+
Products in
Inventory



12+
Employees with
Post Doc
35+
Employees with PhD
190+
Employees with MSc.



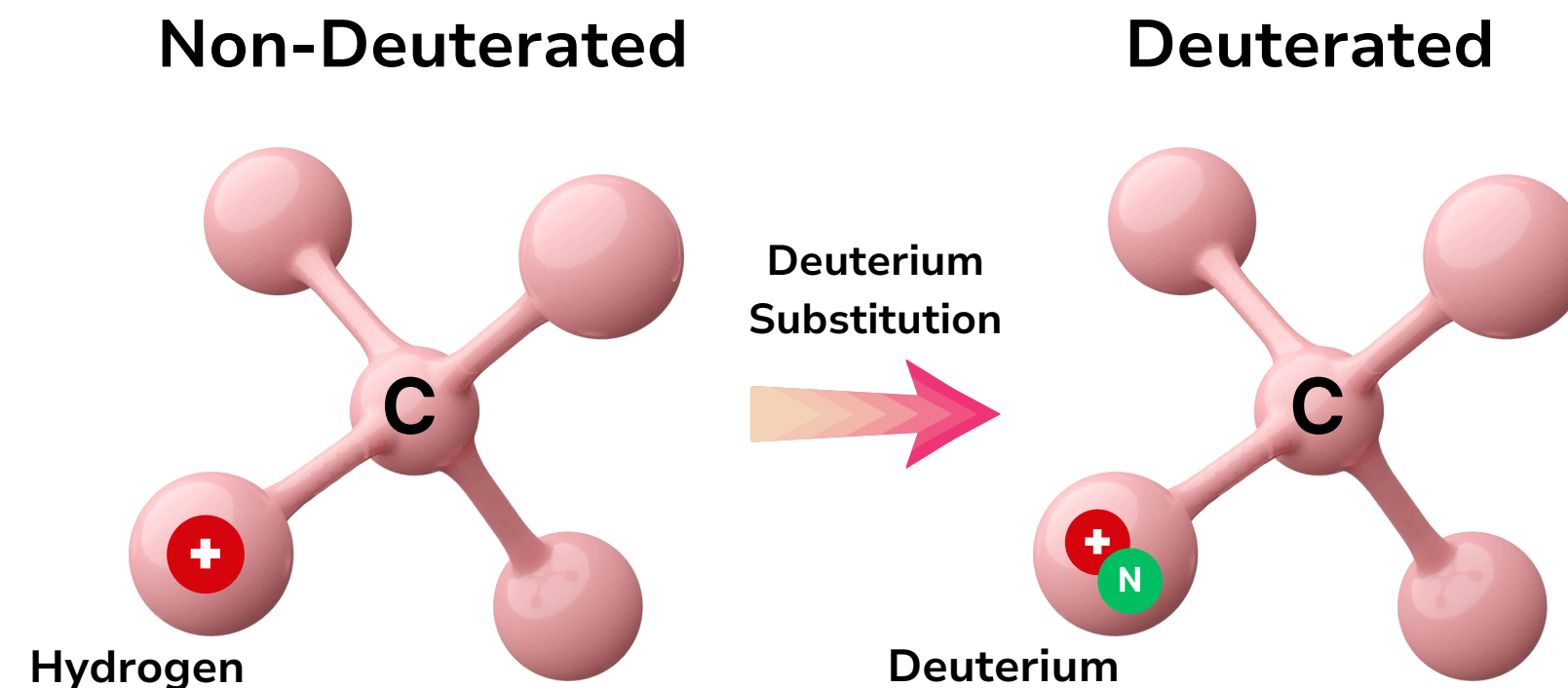
Global Presence



-  Sales Office & Stock Points
-  Sales Office

Our Expertise in Deuterium Chemistry

- Deuterated Reagents
- Deuterated Solvents
- Deuterated Materials
- Deuterated Building Blocks
- Deuterium Labelled Products for Deuterated Drug Development
- Deuterated Custom Synthesis



Deuterium In Drug Discovery

Deutetrabenazine (Austedo)

Reduced and less-frequent dosing

Teva
Huntington Disease

AVP-786 (Dextromethorphan)

Reduced amount of co-administered booster

Otsuka
Alzheimer

Deucravacitinib (Sotyktu)

Increased selectivity

BMS Pharma
Plaque Psoriasis

PXL065 (Deuterium Stabilized Pioglistazone)

Reduced enantiomerization

Poxel Pharma
Diabetes

B
E
N
E
F
I
T
S

Donafenib (Zepsun)

Reduced toxicity

Suzhou Zelgen BioPharma
Oncology

VV116 (Deuremidevir)

Possibility of oral administration

Junshi Biosciences
Covid

RTO01 (Deulineleate Ethyl Linoleic Acid)

Novel mechanism of action

Retrotope
Progressive Supranuclear Palsy (PSP)

Heroin Vaccine

Increased pharmacodynamic activity

Benefits Of Deuterium in Drug Discovery

Increase in PK Parameter

Longer $t_{1/2}$

Higher Drug Absorption

Higher AUC

**Reduced Amount of
Co-Administered Booster**

Reduced Toxicity

**Lower Incidence of
Adverse Effects**

Deuterated Products (Deutero)

- Benzene-D6
- Bromobenzene-D5
- Chlorobenzene-D5
- Iodobenzene-D5
- Phenyl Boronic Acid-D5
- 1,3-Dibromobenzene-D4
- Tert-Butanol-D10 / D9
- Sodium Deuterioxide
- Anthracene-D10
- Carbazole-D8
- Naphthalene-D8
- 9-Bromo Anthracene-D9
- 1-chloro-3-iodobenzene-D4
- Sulphuric Acid-D2
- Deuterated Bromide
- Deuterated Chloride
- Bromocyclopentane-D9
- Benzoic Acid-D5
- Tert-Butyl Chloride-D9
- Methanol-D4
- Methanol-OD
- Dibromoethane-D4
- Ethanol-OD
- Lithium Aluminum Deuteride-D4
- Sodium Boro-deuteride-D4
- Dimethylsulfoxide-D6
- Methyl D3 Amine HCl
- Methyl Iodide-D3
- Aniline-D5
- Phenol-D5
- Acetone-D6
- Piperazine-D8
- Propanol-D7
- Propionic Acid-D5
- Toluene-D8 / D5
- Acetic Acid-D4 / D3
- Chloroform-D
- Dimethylamine-D6

Capacity – Current & Future

List Of Products	Present Status	Present
		Capacity/ month (Kgs)
Benzene D6 - 99% D-atom	Commercial Scale	2000
Benzene D6 - 99.5% D-atom	Commercial Scale	2000
Bromobenzene D5 - 99% D-atom	Commercial Scale	600
Iodobenzene D5 - 98% D-atom	Commercial Scale	200
Phenyl D5 Boronic Acid - 99% D-atom	Commercial Scale	150
1,3 Dibromobenzene D4 - 98% D-atom	Commercial Scale	150
3 Chloro 1 iodobenzene D4 - 98% D-atom	Commercial Scale	25
Carbazole D8 - 98% D-atom	U/R&D (D atom improvement)	-
Anthracene D10 - 98% D-atom	U/R&D (D atom improvement)	-
9 Bromoanthracene D9 - 98% D-atom	Gram Scale	5
Tertiary Butanol D10	Commercial Scale	25
Bromocyclopentane D9 - 98% D-atom	Commercial Scale	200

Bromobenzene, Chlorobenzene, Iodobenzene, Phenylboronic acid - Capacity will depend upon Benzene D6 spare capacity and can be interchanged

D-2 is presently manufactured in-situ in Lab for Methanol D4, we plan to set-up a separate plant for D2 gas for Semi-conductor

Capacity – Current & Future

List Of Products	Present Status	Present
Methanol D4 - 99.5% D-atom	Commercial Scale	50
Iodomethane D3 - 99% D-atom	Commercial Scale	3800
Methyl D3 amine Hydrochloride - 99% D-atom	Commercial Scale	50
Tertiary Butanol D9	Commercial Scale	25
Aniline D5	Commercial Scale	200
Benzoic Acid D5	Commercial Scale	100
Sodium Deuteroxide - 99% D-atom	Commercial Scale	500
Deuterium Bromide - 99% D-atom	Commercial Scale	500
Deuterium Chloride - 99% D-atom	Commercial Scale	200
Sulfuric Acid D2 - 99.5% D-atom	Commercial Scale	3000
Dimethyl Sulfoxide D6 - 99.5% D-atom	Commercial Scale	25
Chloroform D - 99.5% D-atom	Commercial Scale	25
D2 Gas	U/discussion	Only captive

Bromobenzene, Chlorobenzene, Iodobenzene, Phenylboronic acid - Capacity will depend upon Benzene D6 spare capacity and can be interchanged

D-2 is presently manufactured in-situ in Lab for Methanol D4, we plan to set-up a separate plant for D2 gas for Semi-conductor

The Clear Choice !

- ✓ **High Isotopic Purity**
- ✓ **Custom Synthesis / New Product Development**
- ✓ **High Volumes / Variable Packaging**
- ✓ **Reliable and continuous Supply**
- ✓ **Pilot and Bulk Scale Manufacturing**



Clearsynth Innovation Centre (Hyderabad)



5 Floors

50,000+ Square Foot

250+ Fume Hoods

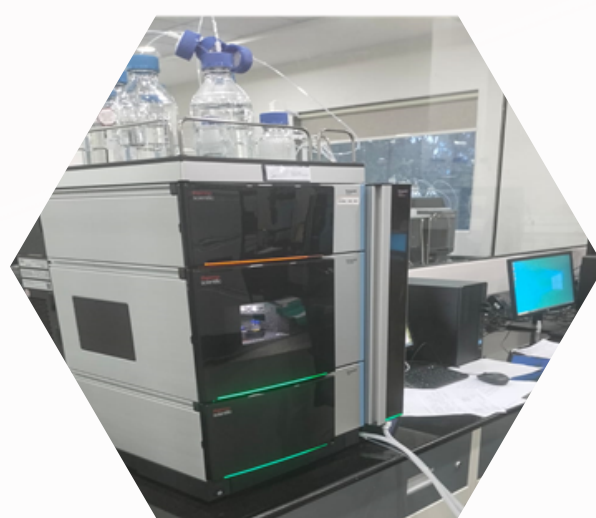
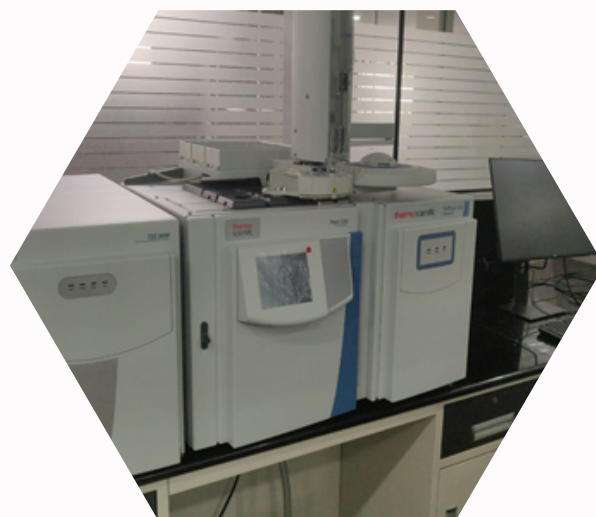
250+ Scientist

100+ Support Staff

**Location : Industrial Development
Area, Mallapur, Hyderabad, India**

Clearsynth Innovation Centre (Hyderabad)

List of Equipment



Name of Instruments	Instrument Brand	Number of instruments
600 MHz Bio NMR	Bruker	1
ICP MS	Perkin Elmer	1
GC-MS/MS	Thermo	1
LCMS	AB Sciex and Shimadzu	2
TGA	Perkin Elmer	1
Prep HPLC	Shimadzu	2
HPLC	Waters	3
HPLC	Dionex	1
HPLC	Thermo	6
Flash System	SapaBean	1
Coulometer	Metrohm	1
IR	Shimadzu	1

Globally Accredited Quality Certifications

Certifications

ISO/IEC 17025:2017

ISO 17034:2016

ISO 14001:2015

ISO 9001:2015

ISO 45001:2018

FDA Registration Certificate

DSIR Recognition Certificate



Chemistry Operations



- 23 Labs with 10 Hoods Each
- Capacity from mg to tonnes
- Highly Trained Manpower
- All Safety Precautions in Place
- Access Controlled
- Security Cameras
- All Literature Access

Warehouse Operations



- Room Temperature Warehouse
- 2-8° Walk-in Cold storage
- -20° Walk-in Cold storage
- Easily Accessible Racks
- Clean Rooms for Packing & Labelling
- Access Controlled
- Security Cameras

Clearsynth Services



Analytical Services



Small Molecule Manufacturing



Bio NMR Services



Process Development



CDMO Services



Contract R&D

Serving Industries

Pharmaceuticals

Agrochemicals

Biotech

Clinical Research

Academics

Analytical
Testing

Electronics

CRDMO

Diagnostics

Speciality
Chemicals

Food &
Beverages

Cosmetics

Clearsynth

Thank You!

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