



CLEAN AND CONTROL TECHNOLOGIES PVT. LTD.

WE DELIVER EXCELLENCE



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Who We Are

Clean and Control is Turnkey Solution provider to design and build efficient pharmaceutical plants for manufacturing of all kind of drug forms like API, Sterile and non-sterile formulations, Biological products in sustainable and cost-effective manner in a dynamic market environment.

What Services we offer

As a Turnkey solution provider, We Deliver Turnkey Enterprise Infrastructure in stipulated timeline, thereby enabling clients with desired output and faster time to market of quality products.

Our team carry's rich experience in Pharmaceutical projects and Engineering functions from Conceptualization, Engineering and detailing, Construction, Commissioning, Qualifications and operations in all kind of drug forms.

ENGINEERING | CONSTRUCTION | COMMISSIONING | QUALIFICATIONS

OUR EXPERTISE



Cost Effective end to end project execution with safety, quality and commitment on timelines



We Build Sustainable Factory



Well understanding of clean room facilities and its optimized designs



Feasibility study, Conceptualization, Basic & detailed Engineering (part of design)



Automation solutions as per process needs In compliance to GAMP 5



Well Understanding of product needs, Right Spec and scope finalizations



Well understanding of GMP, GAMP, CSV Systems and qualification requirements



Turnkey solution from Groundbreaking to Construction to Commissioning and Qualifications



Clean rooms and Equipment Detailing and De-contamination systems

OUR KEY PEOPLE AND PROJECTS



Founder and Director – Technical: Sterile and Non-Sterile Formulations - DSVKA Narasimha Raju

25 Years of rich experience in Pharmaceutical projects and engineering in OSD, Sterile Injectable facilities with an executed value of more than \$500Mn. Carries expertise in conceptualization, detailing, construction, commissioning and qualification of over all end-to-end projects - Process equipment, control systems, clean utilities, BMS and EMS systems, clean room and HVAC systems, Civil & structural, MEP both in Asia pacific and North America. Having full expertize on injectable equipment like isolators, filling lines and LYO, VHP cycle development and creating facilities for both sterile and non-sterile formulation facilities.

Worked in Various Companies like BARC, NFC, Dr.Reddy's, Glenmark, Actavis, Orchid Healthcare and started Clean and Control by exiting from Dr.Reddys Laboratories as General Manager and was leading Projects and Engineering functions of all Injectable plants of Dr. Reddy's.

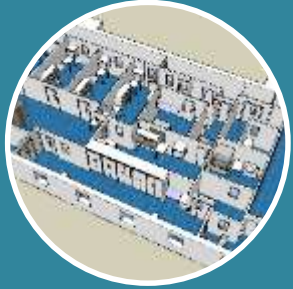
Co-Founder and Director – Commercial – G Venkateswara Rao

28 Years of rich experience in handling capex procurement and supply chain operations of Pharmaceutical projects in API, OSD, Sterile with an executed value of more than \$800Mn. Carries expertise in finalizing pharmaceutical equipment in OSD, Biologics, finalizing supply and service contracts, handling logistics and supply chain operations. Exited from Dr. Reddy's as General Manager - Commercial and started Pristine

Our current project works and Associates

Along with our team, We associated with reputed Clean room, HVAC, Mechanical and electrical Business partners. We execute projects by deploying our quality vendors in specific fields and by supplying quality materials.

SOLUTIONS WE OFFER



**ENGINEERING
BASIC & DETAILED**



**CONSTRUCTION,
PROJECT
MANAGEMENT &
CONTROL**



COMMISIONING



QUALIFICATIONS

COMPLETE TURNKEY SOLUTIONS

PROJECTS – ELABORATED

1. Clean room walls and ceiling, clean room drops (Pipe in pipe pendants), clean room equipment including DPB's, SPB's, LAF and RLAF systems and QC & Micro Lab Furniture's
2. Electrical high side and low side including all clean room lights and sockets etc. and UPS systems – if you have your internal agency to deal this work, we can work on specific areas as needed.
3. IBMS & EMS systems including HVAC DDC controls, O2 analysers, clean room displays, FAS, PA, CCTV, Door interlocking, Attendance, and access control systems.
4. Black and Clean utility systems – including CHW, HW, CA, N2, PW, WFI and PS generation and distribution systems including skids and condensate piping.
5. Complete HVAC system including AHU's and DH units, Cassettes and VRV system's etc. and accessories.
6. Mechanical works including pipe racks, pipe supports, steam and condensate recovery piping systems, equipment erection.
7. Non-walkable ceiling and dry walls of Gypsum or calcium silicate and grid ceiling systems for non-clean room areas
8. O2, CO2, N2, Gasses manifold and distribution system for QC labs
9. Clean room underground drains and GMP drain systems and kill tanks.
10. Fire hydrant and fire sprinkler systems, Safety items includes fire extinguishers, clean agent suppression systems.
11. Visual management systems (For change rooms, production, and admin areas)
12. SS Accessories of SS 304 and SS 316 as per plant needs
13. Walk in Cold rooms and stability chambers.
14. Warehouse fixed/mobile racking systems.
15. Qualification support includes – DQ, IQ and OQ document preparation and execution for GMP Facility, Clean utility, HVAC, IBMS & EMS systems.

EQUIPMENT SUPPLIES AND SERVICES WE OFFER

- Clean room equipment including dynamic and static pass box's, garment cubicles, RLAF's, Ceiling suspended and Mobile LAF's, Lab Furniture's, T&RH, DP Clean room Display units, SS furniture's and Accessories
- Clean utility equipment including Pre-treatment, PW Generation and distribution systems, WFI and Pure steam generation and distribution systems, Online Point of use coolers, Clean room Pipe in pipe pendant's and supports
- Pass through hatch with integrated VHP, Walkable Stability chambers, Incubators and cold rooms Supplies
- Production, testing, dispensing Isolator Equipment supplies and VHP Cycle Development services, Clean rooms decontamination services, Clean room and equipment qualification services
- Storage and Manufacturing Vessels, Pressure vessels, CIP & SIP Skids for Manufacturing, LYO for Injectable and biologics facilities
- General Injectables, Biologics and OSD process equipment, Production equipment accessories – We source it and supply as per specifications
- Digital Visual management system supplies including clean room monitors, touch PC's

PROJECT RELATED MATERIALS - SUPPLIES ONLY

- Any project material supplies like electrical items including power panels, DB's, Cables, Light fixtures, Power outlets
- Utility equipment like chillers, Hot water generators, Heat exchangers, compressors, filter circuits for black and clean utilities
- Clean utility systems including RO Pretreatment, PW, WFI, Pure steam systems
- Mechanical items including all SS, CS, GI, PP, UPVC pipes and fittings and end connections,
- IBMS and EMS items including ACS, DIS, FAS, Clean room monitors and T&RH sensors and Misc. project item supplies.
- Automation items like field sensors, controllers and sensors
- Lighting automation, IOT Sensors
- Visual management systems (For change rooms, production, and admin areas)
- SS Accessories of SS 304 and SS 316 as per plant needs

PROJECTS WE HANDLE

Sterile and Non-Sterile Formulations

Biologics & API Facilities

FMCG & Beverages

- Oral Solid Dosages Clean room facilities (General, Hormone, Potent, ONCO)
- Liquids and Ointments clean room facilities
- Sterile Facilities for General and ONCO Injectable (Vials, PFS, BFS, Cartridge, Ophthalmic, IV Bags)
- Vaccines & Biotech, Fill & finish clean room facilities
- Bulk API Facilities
- Specialized Formulations
- R&D Centres and Pilot plants
- ASRS, Mobile and fixed racking Warehouses
- Central utility and effluent systems
- Central stability centres
- FMCG Facilities
- Beverages

WHY CNC

Capable

Reliable

Cost-Effective

- Safe and quality project execution and meets desired outcomes
- As a turnkey SPOC we take single point responsibility for all project deliverables as per defined scope
- Provide value engineering options and complete turnkey solutions
- Avoids coordination issues in detailing and during execution to the greater extent
- Source's quality materials with right specification from right vendors at reasonable prices
- Effective project management and tracking with right governance mechanism
- Follow Right document controls throughout project execution
- Performs right construction management and quality checks

**PROJECTS EXECUTED IN FY 23 -24
AND
UNDER EXECUTION IN FY 24 - 25**



PROJECTS EXECUTED IN FY 23 - 24 AND UNDER EXECUTION – FY 24 - 25

S.NO	Project Description	Project Cost INR – Mn.	Scope of Turnkey work	Project Status	Timeline Months
1	Single use bag manufacturing facility - Tofflon	75	Clean rooms, HVAC, IBMS, Electrical, Interior fitouts	Completed	5
2	GMP Scale up plant and Lab – Biologics facility - Popvax	30	IBMS, Electrical, Gases, mechanical and drains	Completed	3
3	SS 316 Vessels and process piping - Dr.Reddys biologics and CTO 6	60	HVAC, Cold rooms, Product vessels and related instrumentation	Completed	6
4	GMP and Lab facility - Sai Life sciences	35	Clean rooms, HVAC, IBMS, Electrical, Mechanical, Gases, Sprinklers and Interior fitouts	Completed	4
5	Aurigene Pharma Animal house facility	85	Clean rooms, HVAC, IBMS, Electrical, Interior fitouts	Under Progress	7
6	ITW Chemin Clean room and sprinklers	70	Clean room, HVAC, Electrical, Fire sprinklers, Catch basins & Catch pits and treatment for sprinkled water	Under Progress	6
7	Dr.Reddys CTO 6 – SS 316 Vessels and process piping	100	Product vessels, related process piping and instrumentation	Under Progress	8
8	Basic and Detailed engineering design Packages of OSD and Injectable facilities at Dr. Reddy's and MSN Pharma	20	Facility GMP layouts, facility and process equipment detailing	Under Progress	6

EXECUTED PROJECT REFERENCES

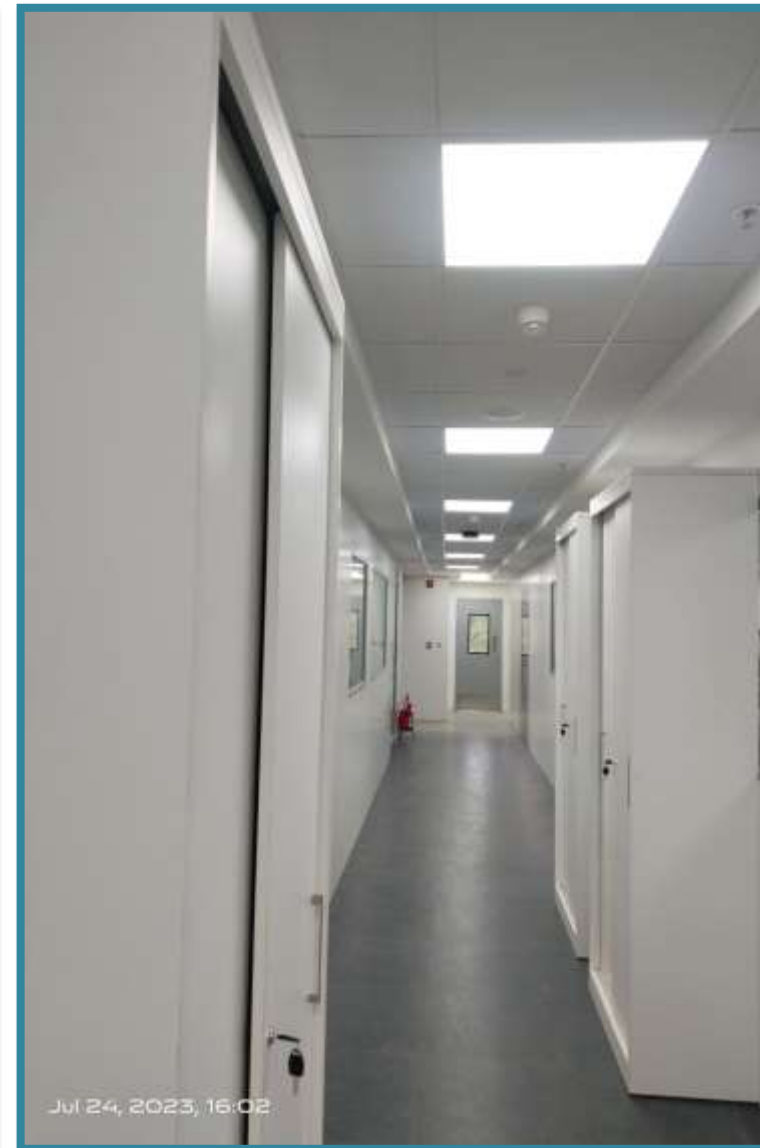
TOFFLON SINGLE USE BAG MANUFACTURING



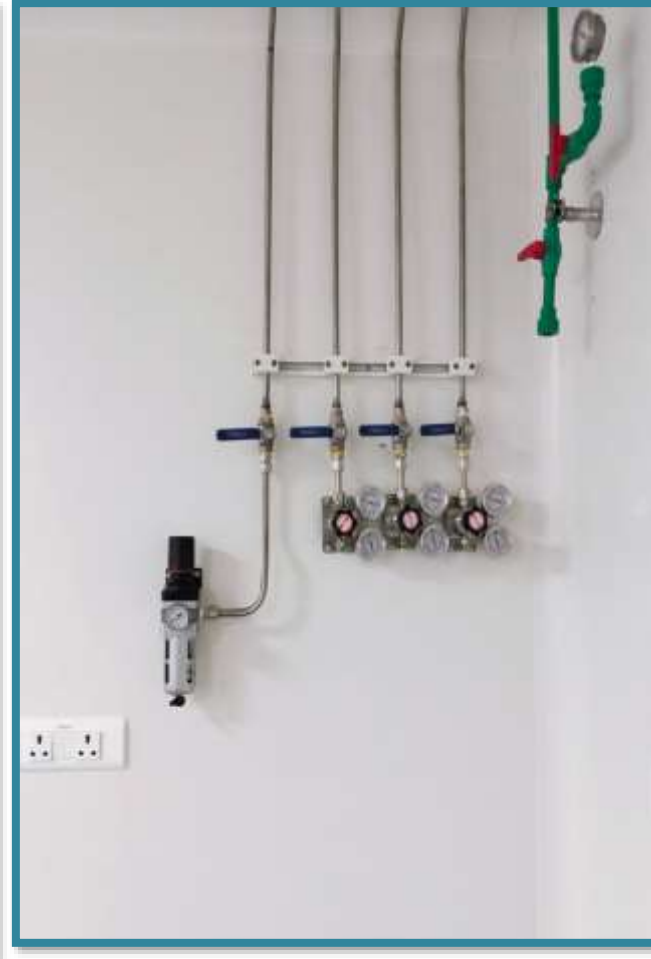
TOFFLON SINGLE USE BAG MANUFACTURING



SAI LIFE SCIENCES – GMP AND LAB FACILITY



SAI LIFE SCIENCES – GMP AND LAB FACILITY



SAI LIFE SCIENCES – GMP AND LAB FACILITY



POPVAX – BIOLOGICS SCALE UP AND LAB SETUP



ANIMAL HOUSE RUNNING PROJECT – PHOTOGRAPH REFERENCES - AURIGENE PHARMA
SERVICES



GENERAL AND ONCO INJECTABLE MANUFACTURING PLANT



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PRIVILEGED AND CONFIDENTIAL

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