

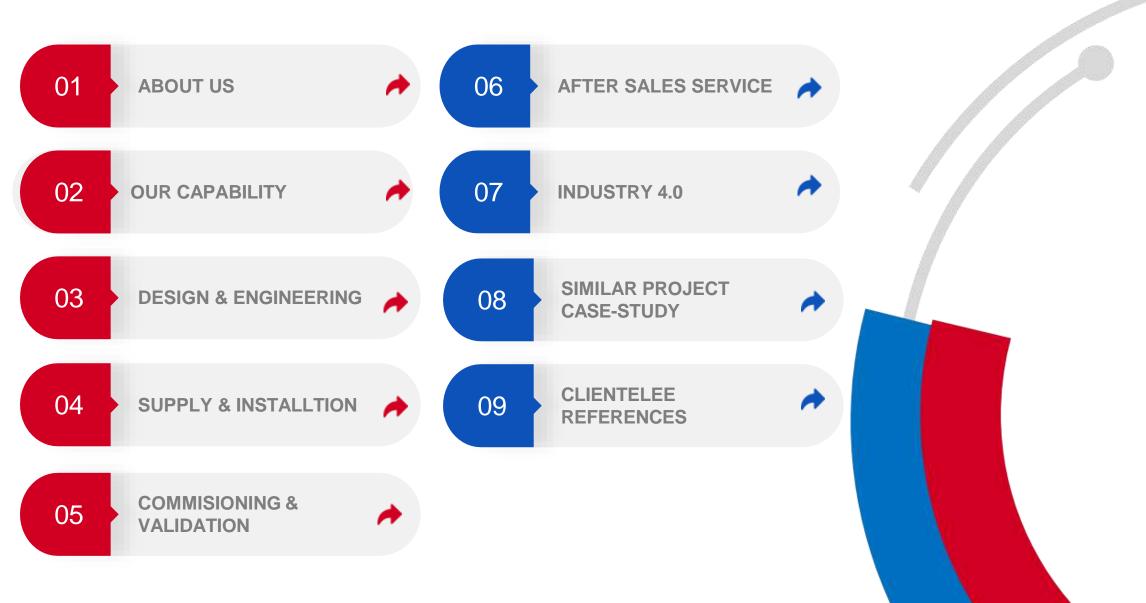


THE
GLOBAL LEADER
IN
TOTAL
INFRASTRUCTURE
SOLUTIONS

www.kewaunee.in

CONTENTS





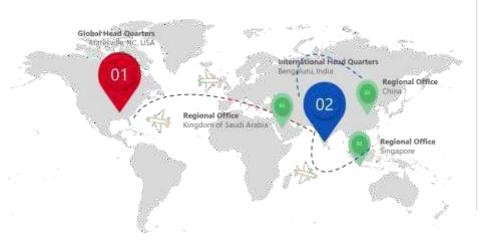
ABOUT US

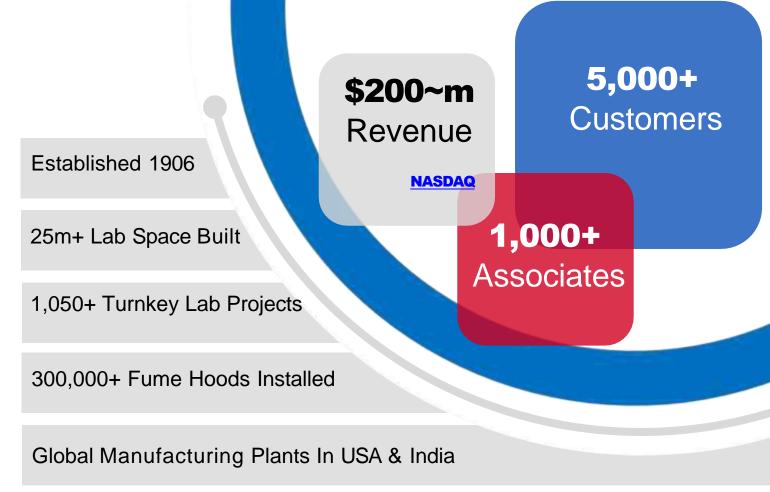
WHO WE ARE

Over our 110+ years of existence, Kewaunee has grown to be a world leader in the design, manufacture, and installation of laboratory solutions and services.

Our corporate headquarters is in Statesville, North Carolina USA. The international headquarters is in Bengaluru, India.

State of the art manufacturing facilities are in Statesville serving the domestic and international markets, and another facility in Bengaluru, India serving the local and Asian markets.





Holistic Manufacturing, Infrastructure & Industry 4.0 Solutions

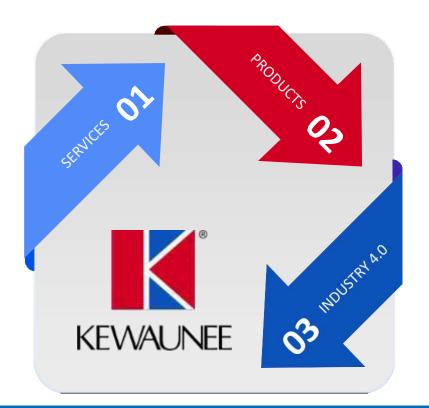
Offices – USA, India, Singapore, Kingdom Of Saudi Arabia

WORLDWIDE NETWORK...

ABOUT US WHAT WE DO



Whether your project is a brand-new multi-story research centre, or the remodel of an existing lab, Kewaunee provides the full range of services from design and engineering, through the final installation and start-up.



SERVICES

PRODUCTS

INDUSTRY 4.0

CONSULTANCY

- **‡** Site Feasibility Studies
- ‡ Lab Planning & Design
- # Green Engineering (LEED)
- ‡ Value Engineering
- Safety, Audit, and Training

TURNKEY SERVICES

- ‡ EPC & Project Management
- # HVAC, Exhaust, Gas, Electrical. Fire, Plumbing
- **‡** CGLP/CGMP validations
- # Build & Commission

MANAGED SERVICES

- ‡ Lab Infra Management
- Managed Services
- ‡ AMC
- ‡ Spares & Parts
- **†** Tailored People Solutions

VENTILATED DEVICES

- ‡ Fume Hoods
- Bio Safety Cabinets
- ‡ Laminar Flow Hood
- **‡** Local Exhaust Ventilation
- # Ductless Fume Hood

LAB FURNITURE

- **‡** Safety/Storage Cabinets
- Adaptable/Modular
 Furniture (Class 1 to 8)
- ‡ Case Works Metal, PP, Wood, Steel, and more

ACCESSORIES

- **‡** Work Surfaces
- ‡ Sinks
- Emergency Equipment
- Fixtures & Fittings
- # Accessories

DESIGN & PLANNING

- ‡ 3D BIM
- ‡ CFD design for HVAC
- # VR & AR for Lab Design
- Efficax Cloud for Lab

LAB CONSTRUCTION

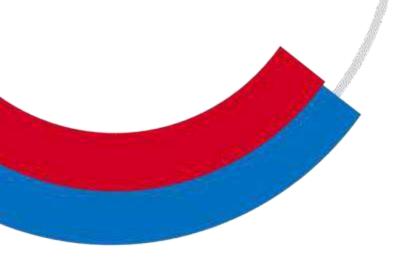
- Kewaunee Green Guardian
 IOT Solution
- ‡ K-Smart Project Management

LAB OPERATIONS

- Digital Twins
- **# KGG IOT**
- **‡** AR & VR Training

ABOUT US

INDUSTRIES WE SERVE



Kewaunee's expertise lies in designing and building laboratories suited for specific industries. Having developed specialised laboratories practically across all industry segments, we believe each industry and sector needs a tailored solution, not a template.

























ABOUT US

KEWAUNEE

6 KEY SUCCESS FACTORS

1

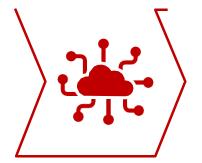
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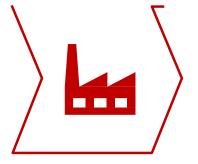
6













TECHNOLOGY

Tech-enabled
fit-out company
(Business Process
Automation)

RELATIONSHIP

2-decade longstanding Business Relationships with Suppliers/ Partners **LEADERSHIP**

Top Management engagement and ownership

RESOURCEFUL

Robust Financials INFRASTRUCTURE

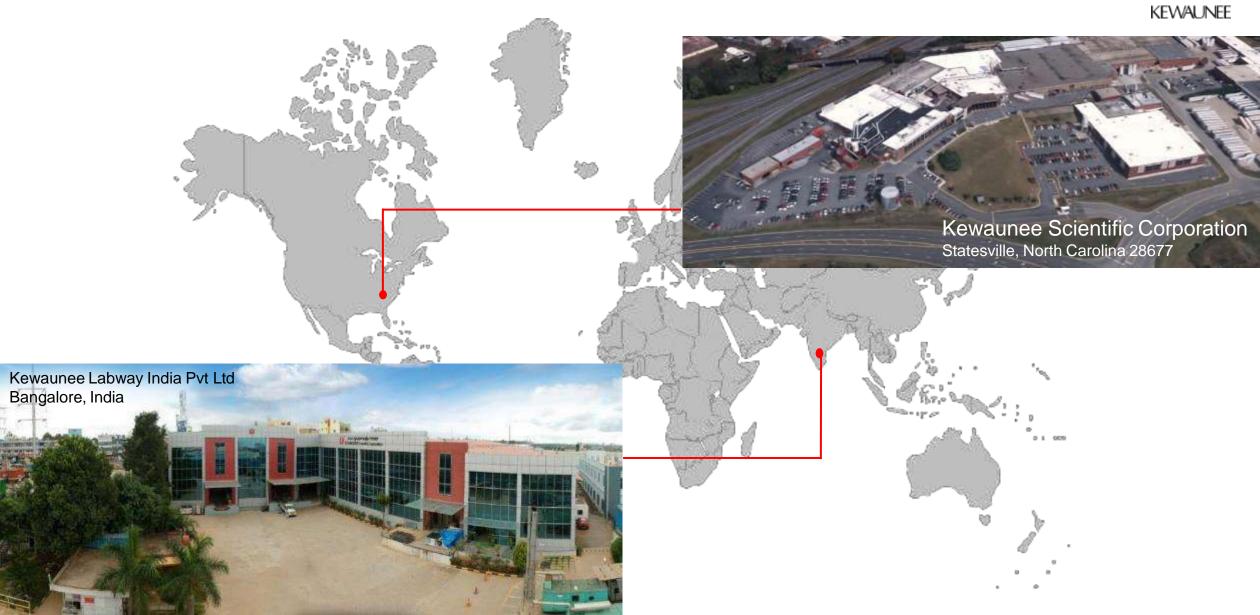
State-of-the-art company-owned Factory

PROFICIENT

Highly experienced and professional Projects Delivery Team

OUR GLOBAL MANUFACTURING FACILITIES





OUR TEAM

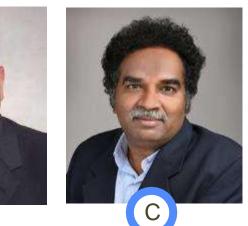
- A Thomas D. Hull III

 President, Chief Executive Officer
- B Donald T Gardner III
 Vice President CFO
- B. Sathyamurthy
 VP Intl Ops (KSC), & MD Intl Ops
- Kurt P Rindoks
 VP Global PD & Strategic Alliances
- Douglas J Batdorff

 VP Manufacturing Operations
- F Srinivas P N
 Vice President South Asia, Middle East & Africa
- G Gopal S B

 Director Business Excellence
- H Subrato Dey
 Vice President Engineering, India
- Manish Dimri
 Business Head India, Lab Infrastructure

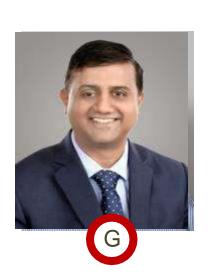
















AND A 1,000 MORE ...



OUR CAPABILITY



WHY KEWAUNEE?



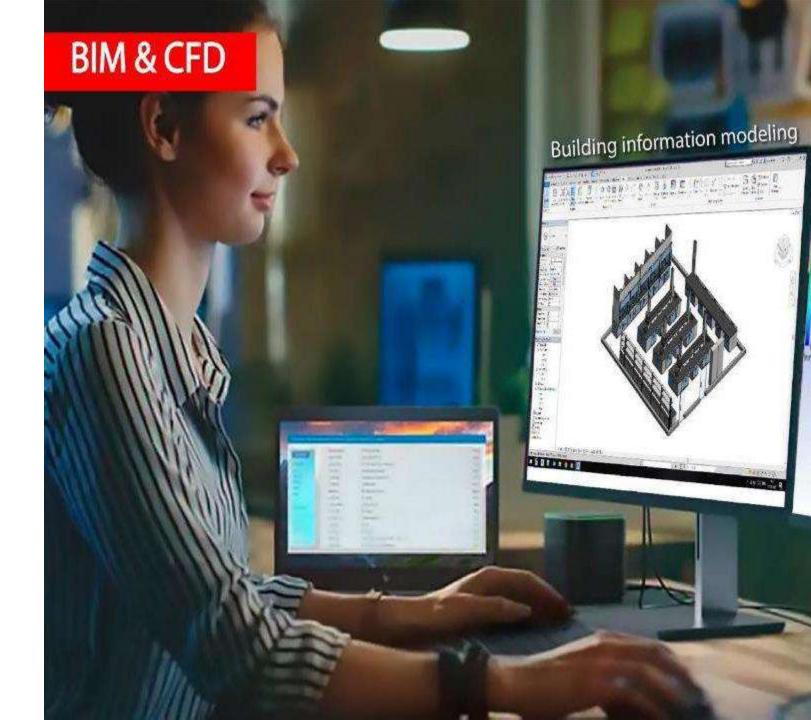
WE TAKE COMPLETE DESIGN & BUILD RESPONSIBILITY

- Design & Engineering
- Supply & Installation
- Commissioning & Validation
- After Sales Service
- Industry 4.0 Technology Solutions



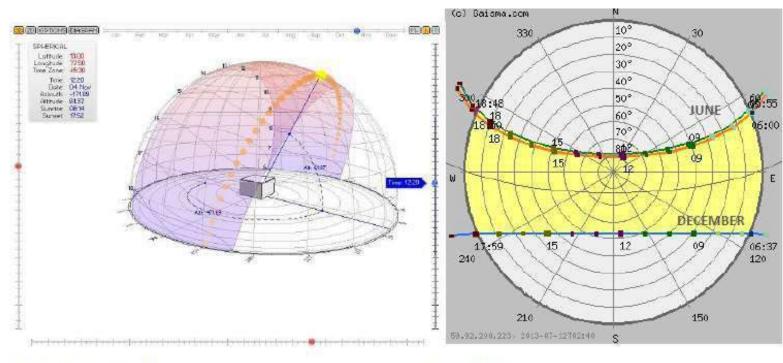
Design & Engineering

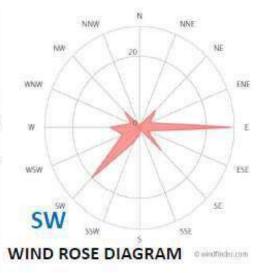
Design - Build



ARCHITECTURAL SERVICES: CLIMATE SURVEY







SOLAR MOVEMENT

SOLAR PATH

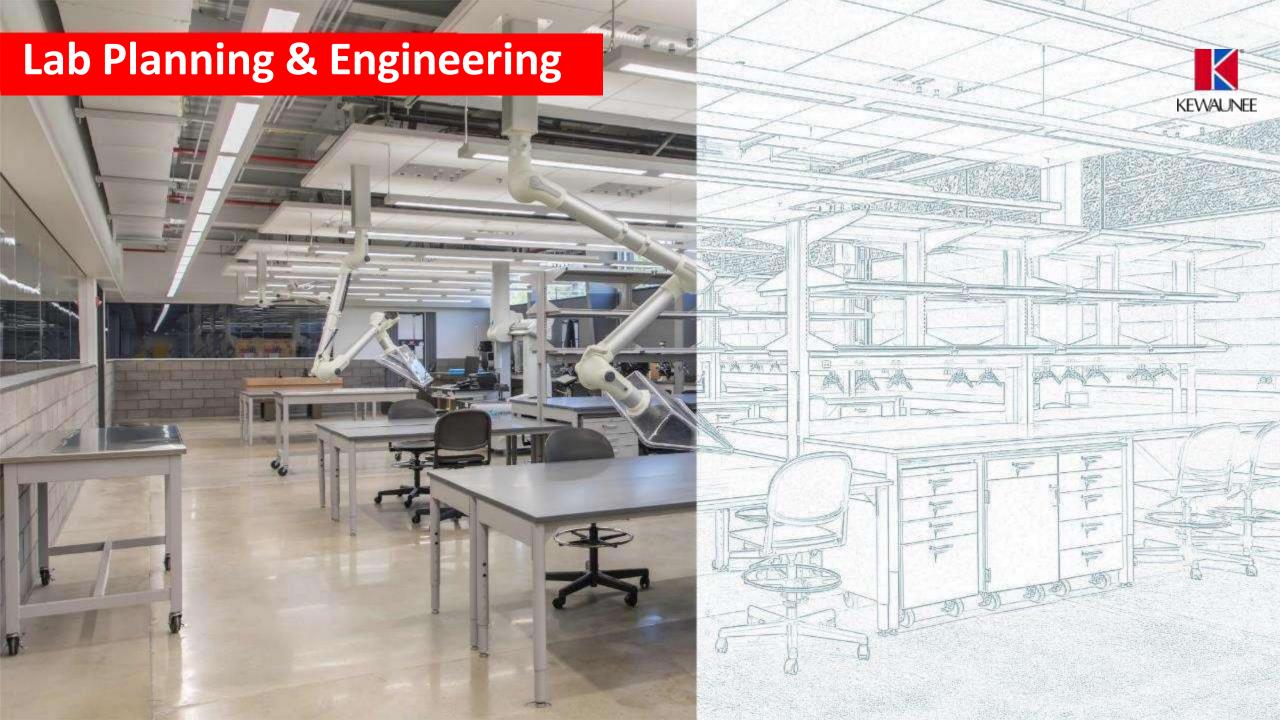
- SOLAR INTENSITY IS MAXIMUM ON EAST AND WEST DIRECTIONS
- BUILDING WITH LONGER SIDES FACING NORTH AND SOUTH ARE MOST EFFICIENT
- -LEAST HEAT AND GLARE FROM NORTH SIDE
- -MAJORITY WINDS FROM SOUTH-WEST





Variable	1	11	III	IV	٧	VI	VII	VIII	IX	X	XI	XII
Temperature, °C	23.10	25.67	28.23	28.53	28.93	27.45	26.72	26.83	26.89	25.19	23.41	22.62
Wind speed, m/s	3.48	3.68	3.68	3.71	4.07	4.88	4.80	4.48	3.41	3.09	3.22	3.61
Rainfall, mm	3	7	10	41	109	75	96	122	192	155	65	19
Wet days, d	0.2	0.4	0.6	2.6	5.9	5.2	7.2	8.6	9.3	7.4	3.8	1.7



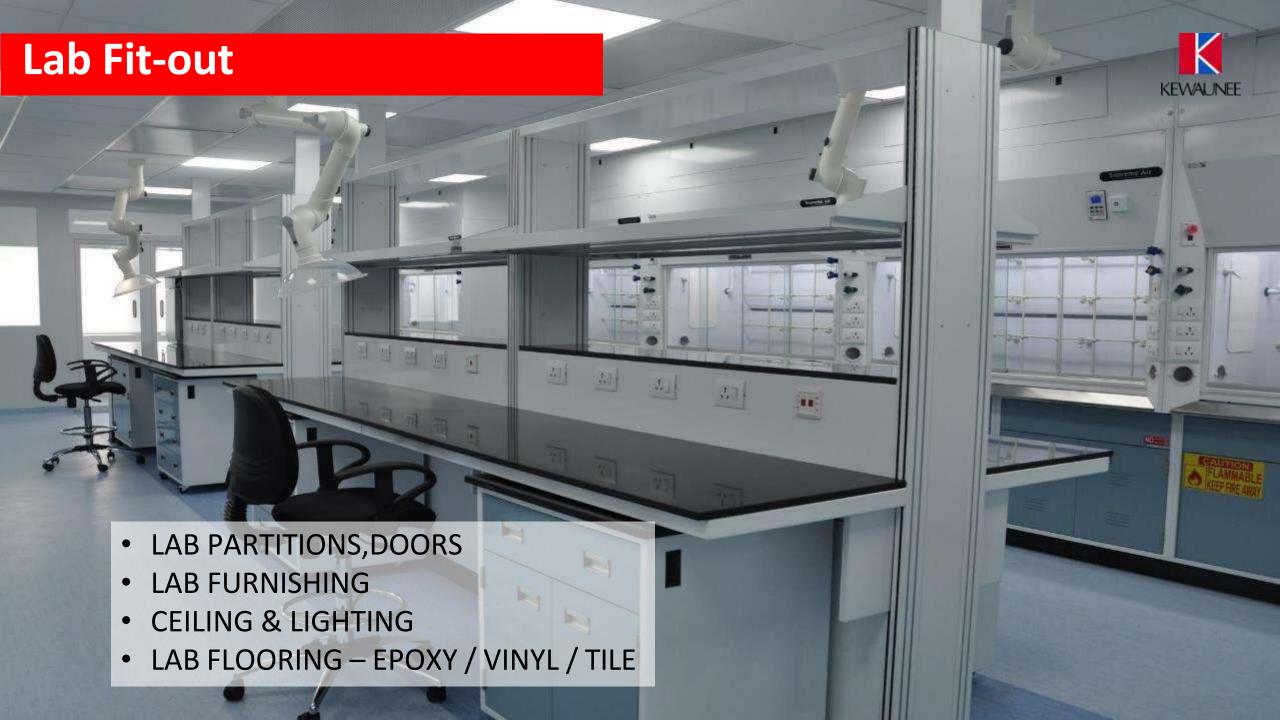




Supply & Installation

Total Facility Fit-out











Exhaust System KEWAUNEE







Commissioning & Validation

As per ASHRAE







After Sales Service

24x7 Functional Labs







Industry 4.0 Solutions

Innovations & Technology

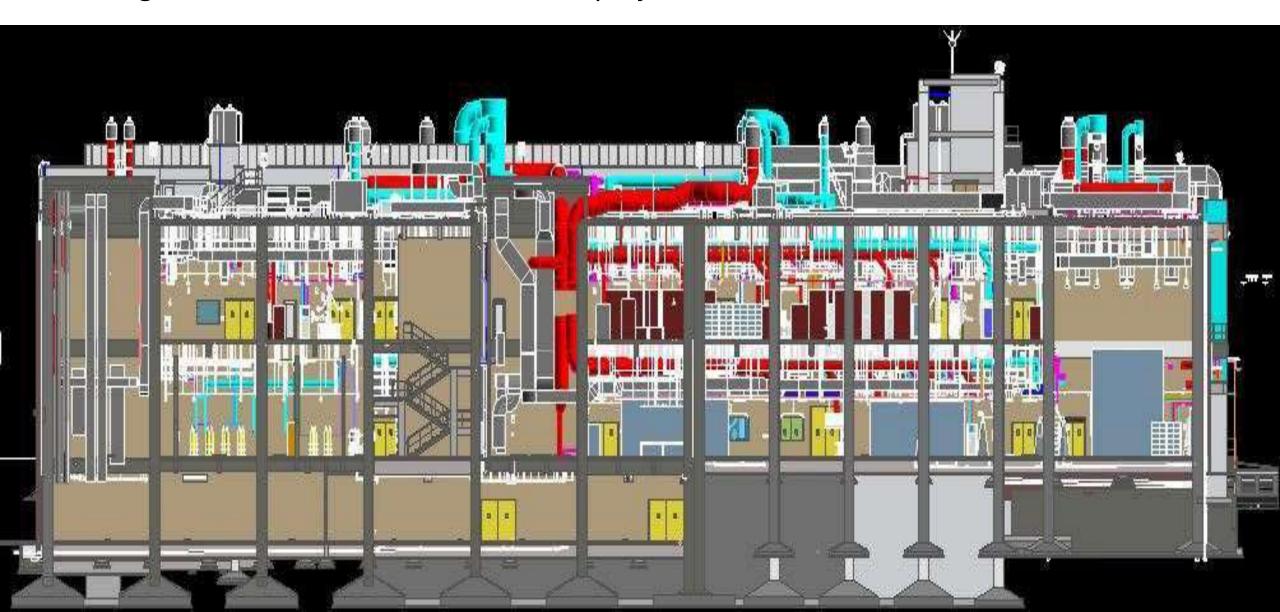




BUILDING INFORMATION MODELLING

KEWAUNEE

an intelligent 3D model-based collaborative project



VIRTUAL REALITY AUGMENTED REALITY





Kewaunee Offers VR , AR & MR user experience for real-time interpretation of proposed designs

Experienc

A complete immersive experience , taking to a whole period level

Real Life Simulations

Oustomers can place, open or change colors of furniture and even walk through their own virtual lab.

Creative Lab designing

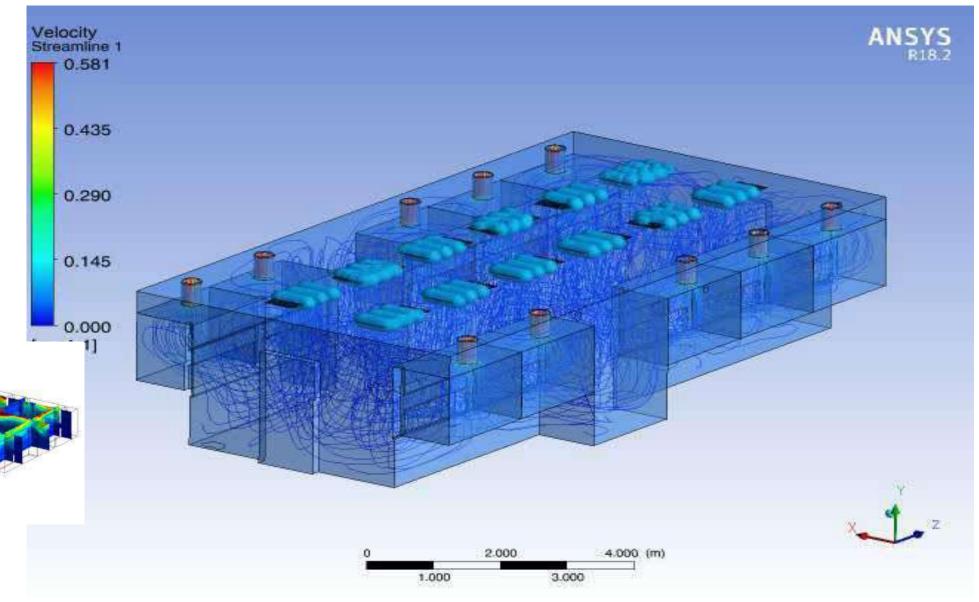
Customer can design their own virtual lab in real-time and get a real feel of it.



Technology Driven Solutions

CFD Computation Fluid Dynamics

CFD is used for analysis and design optimization of a Lab HVAC system.





Kewaunee Green Guardian





Kewaunee Green Guardian was developed as one of the enablers for Kewaunee 4.0 deployment in Laboratory.

It can link fumehoods and multiple control system and real time performance of Lab Infrastructure parameters can be monitored 24/7 and reports can be generated.

FEATURES

Fumehood Safety Performance:

- Face Velocity monitor and record.
- Alarm Status display and record.
- · Graphical report.

Laboratory Differential Pressure:

- Lab Differential Pressure monitor and record
- Alarm Status display and record.
- Graphical reports.

Exhaust Differential Pressure:

- Exhaust Duct Differential Pressure monitor and record
- Alarm Status display and record.
- Graphical reports.

Exhaust Blower:

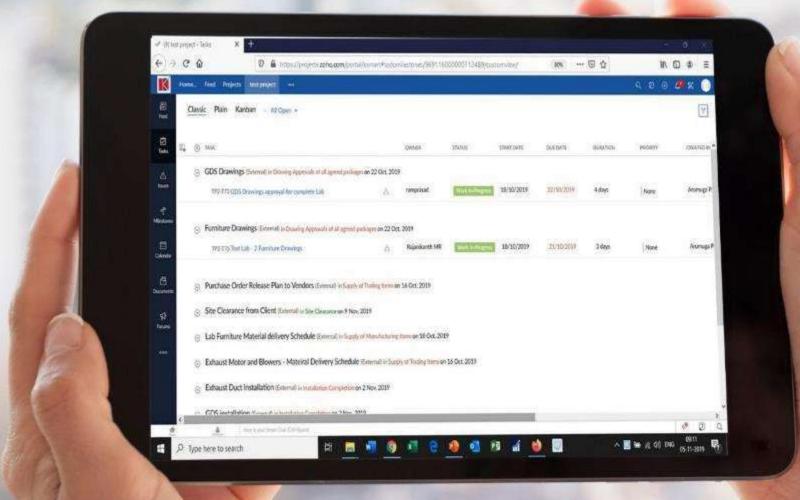
- Motor Power, frequency, output voltage, output current, torque, display temperature of IGBT, power and DC bus voltage.
- Remote monitoring and control of the laboratory exhaust blowers.
- Adjust Motor frequency.
- Start/Stop and control direction of Blower incase of emergencies.
- Auto sleep mode enabling the energy saving during night and when lab not used

Energy management:

- Energy consumption data of Blower
- Displays Power factor, line to line voltage, current, voltage-ampere, Wh., Watts, and frequency
- Graphical representation of Energy consumption for the day, month, and year.

Real Time Project Management





K-Smart

Industry 4.0 IoT Solutions

Lab Infrastructure



STRATEGIC ALLIANCE



"This alliance brings together two industry leaders to provide an unparalleled offering to customers who are demanding better performance and insights from their laboratories", Kewaunee CEO Tom Hull

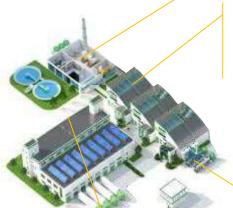
Smart Facilities I Enhancing labs with digitalization

"Our vision is to be an enabler for our customer to build Smart and Sustainable Laboratory spaces with Valuable Intelligence"

Single lab to entire facility transformation

Smart Labs | Industry 4.0

From Preventive to Predictive maintenance 21CFR Part 11 Compliance Single window for Laboratory Automation Real time Data | Remote Everything



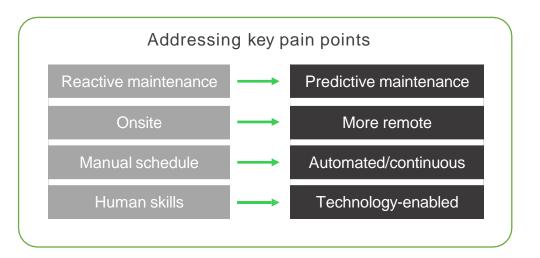
Asset Performance Management

The most comprehensive solution for a maximum economic return of your assets

Environmental Control
Make sure your production
environment comply with
requirements and regulations

Building Management

Provide the best conditions for your manufacturing operations



Get the best from digital transformation



Improve reliability

Secure your labs environment and data to mitigate risks and increase business uptime



Simplify Compliance

Ease adherence to regulatory requirements and good practices



Increased efficiency

Automated alerts mitigate risk, minimize downtime & improve flexibility



Protect Environment

Meet your sustainability goals for a better future for all



Command Centre program

Command Centre setup shall have

- 6 nos * 55" Thin Bezel Video wall (3.5 mm bezel-to-bezel) with 24x7 operation support in 3 X 3 matrix
- Video wall processor
- Core i7 with Express9 + 600W ATX + 8GB RAM 4 Channel Display port/DVI graphic card 4 Channel HD
- Capture card with HDMI Splitter cables
- Wall Management software

Command personnel shall be managed and provide 24*7 service

- Operation Manager
- Supervisor
- Operation engineer



Visualization reference only



Command Centre program

Command Centre level

- Performance KPIs visualization
- Bench marking of each facilities
- Manage Facility level SOPs centrally
- Alert management by Command Centre personnel for all facilities

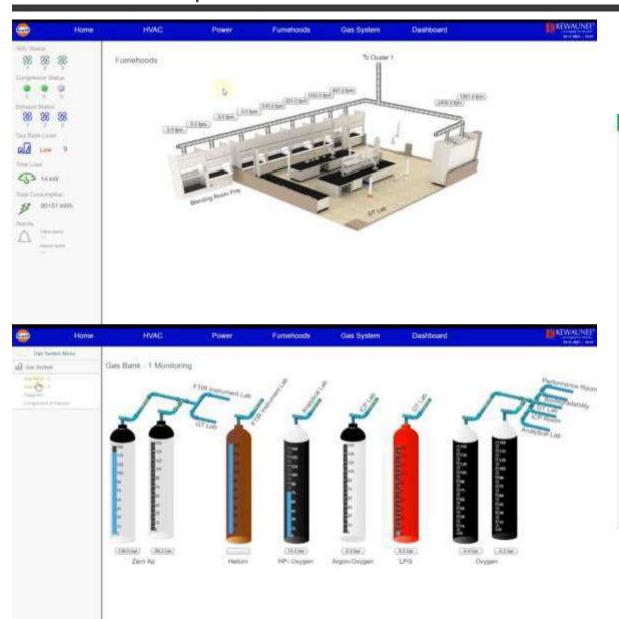
Facility level visualization & management at central level

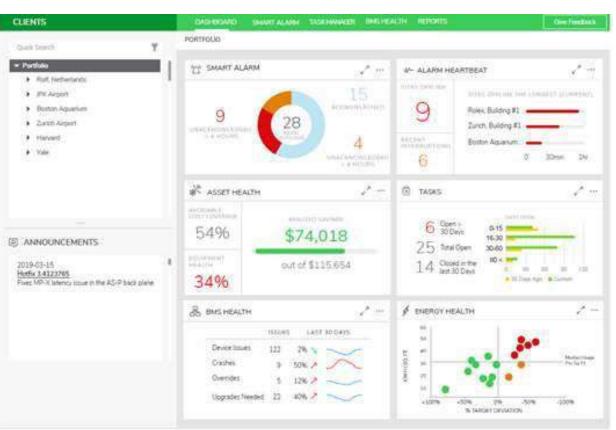
- Energy Management
- HVAC Chiller Plant Management
- Data Centre management
- AHU/ EC Fan Management
- VRF Operation Management
- Lighting Management system
- Water Management system
- Fire Safety System
- Manage Reporting





Customized reports and Dashboards

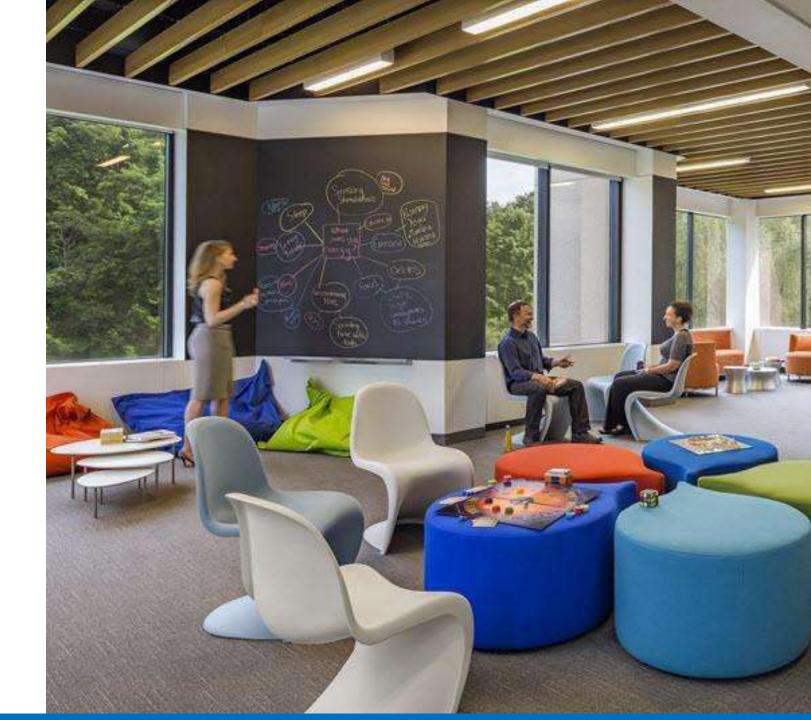




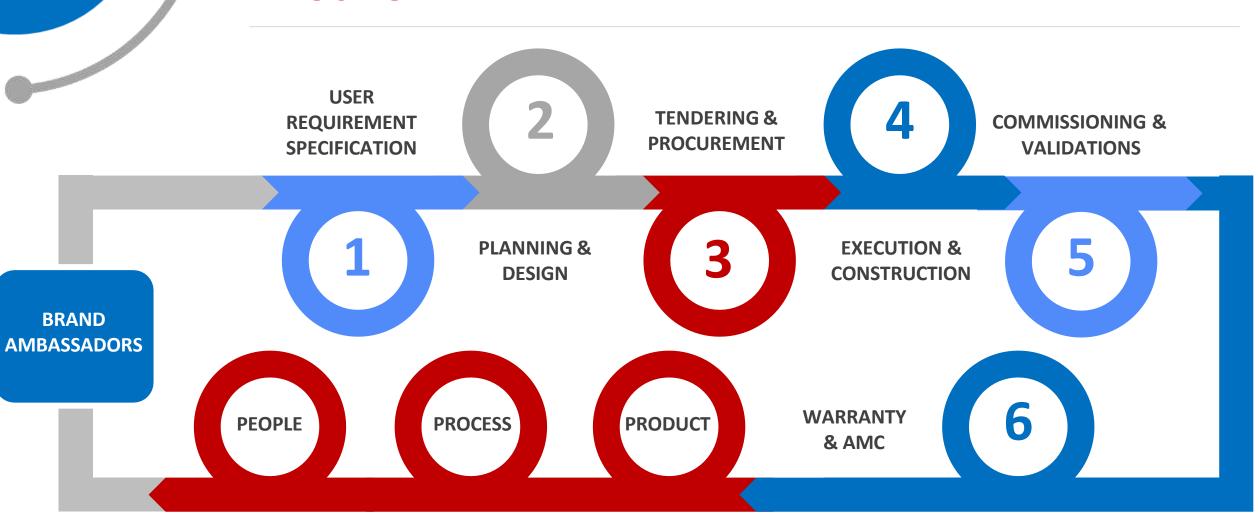




OUR PROCESS

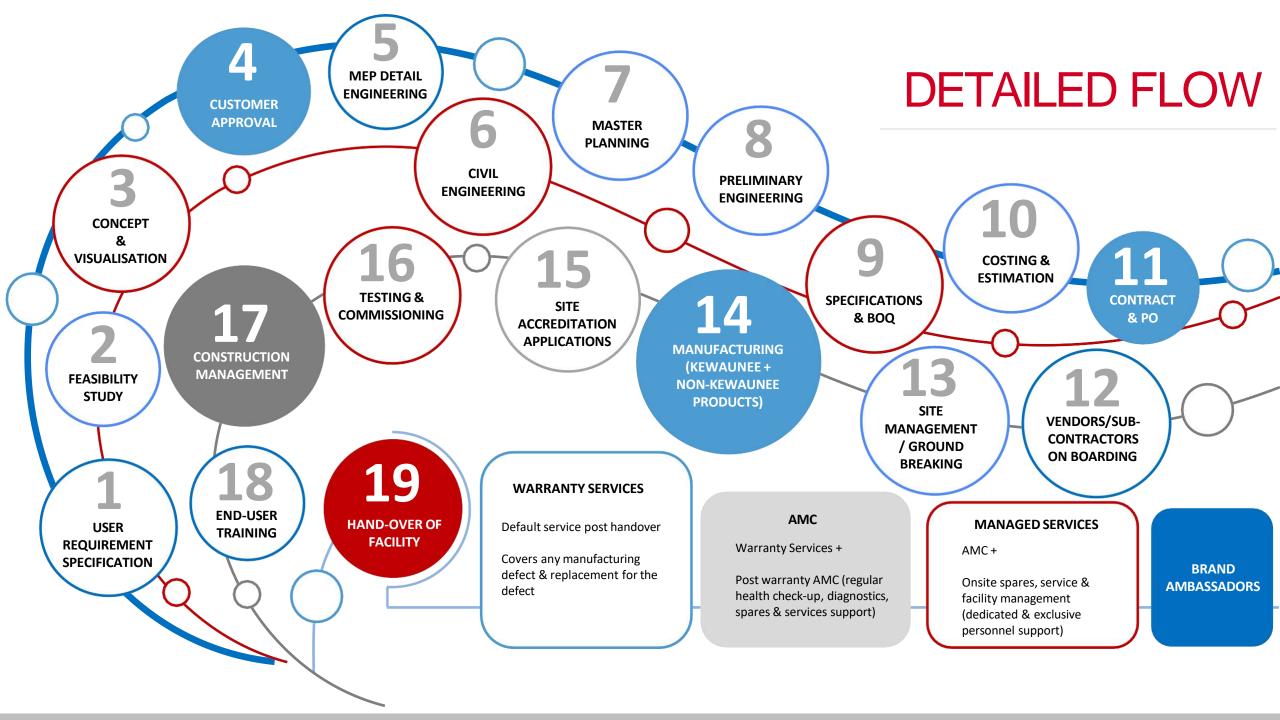


PROVEN PATH TO A SUCCESSFUL LAB PROJECT



MANAGED SERVICES

HANDOVER TO OPERATIONS



CUSTOMER PROJECT CHALLENGES



	Inadequate design					
N G.	Incomplete or changing URS					
DESIGN & ENGG.	Lack of clarity on specifications – Wrong estimation					
	Incomplete GFC's before procurement & construction					
ENT	Insufficient stakeholder engagement					
REM	Commercial Disputes					
PROCUREMENT	Wrong vendor selection					
PR	Long-lead item delivery					
	Poor site supervision					
	Poor project control					
	Changes in project execution					
Z	Late delivery of onsite construction materials					
CONSTRUCTION	Poor quality of construction materials					
STRU	Redo of snag lists					
CON	Inadequate or inefficient equipment or machinery					
	Sub-contractor's poor financial & execution capability					
	Skilled workforce					
	Frequent changes in workforce					
	Accidents or incidents or safety non-compliances					
	Bureaucratic processes					



DESIGN & BUILD SEQUENCE



PHASE	PHASE 1 CONCEPTUAL	PHASE 2 PRELIMINARY ENGINEERING	PHASE 3 DETAILED DESIGN	PHASE 4 CONSTRUCTION	PHASE 5 COMMISSIONING, QUALIFICATION AND VALIDATION	PHASE 6 CLOSEOUT
Objective	Select best of identified project approaches, analyze concept(s) and prepare preliminary Cost Estimate, to confirm project viability.	Finalize technology and project objectives, and develop engineering, pricing and Project Execution Plan to support a Budget Cost Estimate and funding request.	Manage, coordinate and perform design activities necessary for construction and start-up of project. Complete procurement activities necessary for economic, schedule or detail design reasons	Mobilize and manage the construction forces and perform other activities including procurement necessary to construct the facility in accordance with the construction documents.	Perform commissioning and qualification activities required to achieve and demonstrate design performance levels	Perform contractual, archival and Kewaunee required activities to close the project in an orderly fashion.
KEY ACTIVITIES	 Align team to project objectives Confirm site selection and complete initial labor and contractor survey. Confirm preferred concepts, design basis, programming, scope. Develop concepts into preliminary scope documents. Prepare process drawings & simulation. Identify regulatory and permitting requirements, if any Initiate environmental impact assessment. Inquire for major equipment as required. Conduct reviews for safety, DQ, constructability and compliance Develop Project Execution Plan. Initiate Value Engineering. Initiate cost trending 	1. Align team to project objectives. 2. Update execution plan and labor/contractor survey. 3. Translate project concept into preliminary engineering and design documents to support Preliminary Estimate 4. Conduct design reviews for constructability, cGLP/ cGMP compliance, safety, maintainability and operability. 5. Complete commissioning and qualification plans. 6. Finalize purchase order and contract terms and conditions. 7. Inquire (and procure) critical and long lead equipment/contracts. 8. Prepare applications for necessary permits/licenses. 9. Continue Value Engineering. 10. Continue cost trending.	 Align team to project objectives Initiate change management Procure equipment and materials Develop and issue construction documents Coordinate internal and external interfaces Conduct design reviews: constructability, cGLP/ cGMP compliance, DQ, safety, maintainability, operability, etc. Obtain regulatory authority approval Perform FAT's 	 Align team to project objectives. Procure equipment materials and contract construction services. Develop detailed, integrated project schedule. Manage site safety program. Review submittals. Coordinate site activities. Manage QA/QC program. Manage labor relations program. Construct facilities in accordance with contract requirements. Prepare and start to execute Installation Qualification protocols. Continue change management. Internal fit-up/occupancy Achieve mechanical completion and turnover of systems 	1. Align team to project objectives 2. Coordinate inspections by Customer authorities 3. Plan sequential commissioning, qualification and validation of completed facilities in concert with client and other involved parties 4. Prepare commissioning, and IQ/OQ protocols. 5. Perform SAT's and commissioning. 6. Execute OQ protocols. 7. Support Performance Qualification 8. Manage site safety program 9. End Userss training. 10. Record changes to construction documents, 11. Continue change management, if any	 Conduct Lessons Learned sessions and compile for total project. Close purchase order and contract accounts. Assemble and archive project files Return all client assets. Resolve any claims or disputes. Resolve any warranty issues. Obtain final acceptance certificate and final payment Prepare project benchmarking data and feed back into system. (Internal) Prepare final cost accounting.

DESIGN & BUILD SEQUENCE



	PHASE 1 CONCEPTUAL	PHASE 2 PRELIMINARY ENGINEERING	PHASE 3 DETAILED DESIGN	PHASE 4 CONSTRUCTION	PHASE 5 COMMISSIONING, QUALIFICATION AND VALIDATION	PHASE 6 CLOSEOUT
2. Pr 3. Pr 4. O 5. cC Repr 6. Dr 7. Si Plan Time Sche Proc (P&I Diag majo Data Class Data Diag Strat 8. Pr 9. Cc 10. U requ 11. F 12. F 13. F 14. C	cGLP/ cGMP Design Brief and DQ eport 1 Design Safety & Environmental Plan Site Master Plan; Building an/Elevs; Equipment GAs; Process meline, hematic, Block Flow Diagrams (BFD), ocess Flow Diagram (PFD) ocess & Instrumentation Diagram &ID or P&I), Flow & Instrumentation agram (F&ID or FID), Equipment List, ajor equipment ata Sheets, HVAC BFDs and Area assification Dwg; Generic Room ata Sheets; People/Material Flow agram; Automation Vision and rategy Programming Report Control Systems Philosophy D. Utility & infrastructure quirements Preliminary Construction Strategy	1. Updated Project Objectives. 2. Updated Project Execution Plan. 3. Project Procedures. 4. Completed Design Basis. 5. Site Plan, Process and Utility PFDs, P&IDs, Equipment List, Data sheets, Specs, Descriptions; Building/Lab Plans, Sections and Elevations; Equipment Arrangements; People/Material Flow Diagrams; Room Schedule; HVAC BFDs, AF&IDs and Classification; Elec. Single Lines and Area Classification; Validation Master Plan, System list and boundaries and package requirements 6. Control System URS, Automation Project and Quality Plan & System Architecture. 7. Requests for Quotations; and Contracting/Bid Package Strategy 8. Regulatory/Permitting Packages. 9. Project Schedule, Preliminary Startup Sequence; Commissioning and Qualification Plans 10. Updated Utility and Infrastructure Requirements 11. Budget Cost Estimate w/Cash Flow 12. Preliminary Engineering Report	1. Updated Project Objectives 2. Updated Project Execution Plan 3. Updated Project Procedures 4. Purchase Order documentation 5. Construction Documents 6. Automation Functional Specifications and Software 7. Project Schedule 8. Subcontractors & Vendor Data Books 10. Change control documents	1. Procurement/contract documents 2. Updated Project Execution Plan 3. Updated Project Procedures 4. Construction Permits 5. Safety Program and documentation 6. Construction quality documents 7. Change control documents 8. Spare/change parts 9. Construction turnover packages 10. Mechanically complete facility	1. Start-up Schedule 2. Commissioning/IQ/OQ/PQ Plans and Procedures 3. Record documents. 4. Change Control documentation 5. Executed IQ/OQ documents	1. Close Out Plan 2. Close Out Report 3. Project Completion Report 4. Lessons Learned 5. Warranty File 6. Archive Log 7. Final acceptance documents 8. Benchmarking data

SOLUTIONS Offerings



S/N	Topics	Packages	Lab Furniture & Fumehood Projects	Lab-Internal Fitout Projects	Brown field Projects	Green field Projects
1	Planning & Engineering Services	Package-1	Lab furniture planning & engineering.	Space planning along with bench/ floor mounted equipments & basic with MEP engineering upto battery limits defined.	Entire building planning & full fledge Architecture & MEP engineering for entire project	Master plan & Architecture Engineering-with the technological aspects and multi-disciplinary approach to planning, design, construction, and operation,
2	Civil Constructions Works	Package-2	NIL	NIL	Minor Civil works including water proofing, building Façade	Major Civil works including all buildings as shown in master plan, water proofing, building Façade
	Internal & External Development Works	Package-3	NIL	NIL	External Developments –Roads, Compound Walls, Signages, Pavers etc	External Developments –Roads, Compound Walls, Signages, Pavers etc
3		Package-4	NIL	Interiors -Modular partition systems, flooring, painting, ceiling any other basic woodworks	Interiors -Modular partition systems, flooring, painting, ceiling any other basic Woodwork	Interiors -Modular partition systems, flooring, painting, ceiling any other basic Woodwork
		Package-5	NIL	NIL	Landscape -both soft & hard Scape as per master plan	Landscape -both soft & hard Scape as per master plan
		Package-6	NIL	NIL	Passenger & Service Lifts System	Passenger & Service Lifts System
	Laboratory Fume hoods & Lab Caseworks	Package-7	Fume hoods System & Accessories	Fume hoods System & Accessories	Fume hoods System & Accessories	Fume hoods System & Accessories
4		Package-8	Laboratory Furniture System & Accessories	Laboratory Furniture System & Accessories	Laboratory Furniture System & Accessories	Laboratory Furniture System & Accessories
		Package-9	Fume hood Exhaust System & Accessories including Scrubber & Blower	Fume hood Exhaust System & Accessories including Scrubber & Blower	Fume hood Exhaust System & Accessories including Scrubber & Blower	Fume hood Exhaust System & Accessories including Scrubber, PP Blower
		Package-10	Fume hood VAV System & Accessories	Fume hood VAV System & Accessories	Fume hood VAV System & Accessories	Fume hood VAV System & Accessories

SOLUTIONS Offerings



S/N	Topics	Packages	Lab Furniture & Fumehood Projects	Lab-Internal Fitout Projects	Brown-Field Projects	Green Field Projects	
		Package-11	NIL	Gas Distribution System	Gas Distribution System	Gas Distribution System	
	MEP Services	Package-12	NIL	PHE distribution upto battery limit defined	PHE distribution, Hydro-Pneumatic System	PHE distribution, Hydro-Pneumatic System	
		Package-13	NIL	HVAC System (low side System) along with AHU's	HVAC System (High & low side System) along with VRF/ Air/Water cooled Chiller	HVAC System (High & low side System) along VRF/ Air/Water cooled Chiller	
5		Package-14	NIL	Electrical System (low side System) upto inside floor levels	Electrical System (both HT & LT)	Electrical System (both HT & LT)	
		Package-15	NIL	NIL	Networking System -DATA and Voice System (Only Passive)	Networking System -DATA and Voice System (Only Passive)	
		Package-16	NIL	NIL	IBMS-Integrated Building Management Systems	IBMS-Integrated Building Management Systems	
			Package-17	NIL	Safety System Consisting of: FAS, PA, CCTV, Access Control upto inside floor levels	Safety System Consisting of: FAS, PA, CCTV, Access Control	Safety System Consisting of: FAS, PA, CCTV, Access Control
		Package-18	NIL	Gas Leak detection System	Gas Leak detection System	Gas Leak detection System	
6	Safety Systems	Package-19	NIL	NIL	Fire Hydrant System	Fire Hydrant System	
		Package-20	NIL	Gas Suppression System in Solvent Rooms.	Gas Suppression System in Solvent Rooms.	Gas Suppression System in Solvent Rooms.	
		Package-21	NIL	NIL	Safety Signage -Internal & External	Safety Signage -Internal & External	
7	Modular Furniture System	Package-22	NIL	NIL	Modular Furniture's for office & canteen, including Chairs & Sofas for reception & Admin	Modular Furniture's for office & canteen, including Chairs & Sofas for reception & Admin	
	Plant & Utilities for Laboratory usage	Package-23	NIL	NIL	Common Effluent Treatment Plant	Common Effluent Treatment Plant	
		Package-24	NIL	NIL	Nitrogen Plant	Nitrogen Plant	
		Package-25	NIL	NIL	Water Treatment Plant (RO) Plant System & Accessories	Water Treatment Plant (RO) Plant System & Accessories	
8		Package-26	NIL	NIL	Diesel Generator Sets with HSD yard	Diesel Generator Sets with HSD yard	
		Package-27	NIL	NIL	Air Compressor & Vacuum Pump	Air Compressor & Vacuum Pump	
		Package-28	NIL	NIL	Process Chiller Lab application	Process Chiller Lab application	
		Package-29	NIL	NIL	Steam Boiler	Steam Boiler	
	Sustainable energy & Leed Certification	Package-30	NIL	NIL	Solar Panels	Solar Panels	
9		Package-31	NIL	NIL	IGBC - Green Interiors for Gold/ Platinum for the building	IGBC - Green Interiors for Gold/ Platinum for the campus	
10	Digital Solutions (IOT)	Package-32	NIL	NIL	Kewaunee Green Guardian - IOT Based Laboratory Health Monitoring System	Kewaunee Green Guardian - IOT Based Laboratory Health Monitoring System	



OUR PRODUCTS



OUR PRODUCTS





Fume Hood



Local Ventilation



Bio-Safety cabinet



Vertical Laminar Flow



Safety Cabinet



Lab Furniture



Lab Worktops & Sinks



Safety Stations & Eyewash



Service Fittings & Fixtures



Lab Chairs & Stools

Fume Hoods



- Venturi port
- Custom enclosures
- > Full access hoods
- Fume hood testing
- Detect air filtered fume hoods









Laboratory Caseworks



Extensive product portfolio

Flexible and Innovative Design

- Research Collection: Modular
- ➤ Alpha: Flexible workstation
- Enterprise: Adaptable workstation
- **Evolution:** Column-based systems





















SIMILAR PROJECT CASE STUDY

Design - Build





Design & Build TURNKEY PROJECTS

TCG CREST



Research Institute for Sustainable Energy (RISE)

Turnkey : Kewaunee

Fit-Out Area : 8000 SQ. FT

Project Start : Jan' 2022

Closing Date : Mar' 2022

BRIEF:

- > Imaging Club
- > Wet Chemical Lab
- > XPS Lab
- > Fabrication Lab
- > XRD Lab
- > Instrument Lab













WET CHEMICAL LAB VIEW-2







NEW TECHNOLOGY CENTRE, BENGALURU





Turnkey : Kewaunee

Fit-Out Area : 2,52,625 SQ. FT

: Mar' 2014 **Project Start**

Closing Date : Sep' 2015

BRIEF:

Total Land Area: 52 Acre

Total Lab-space: 2,52,625 Sq.ft Scope: Lab Furnishing, Exhaust System, Gas Distribution System,

Controls & Commissioning Completion Date: April 2016

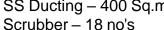
LAB FURNISHINGS:

Fume Hoods - 140 no's Lab Furniture – 850 RM

Phenolic Worktops – 850 Sq.mts

EXHAUST SYTEMS:

Centrifugal Blowers – 44 no's GI Ducting – 10000 Sq.mts SS Ducting – 400 Sq.mts











RELIANCE TECHNOLOGY GROUP

R&D Centre at Reliance Corporate park, Ghansoli, Navi Mumbai, India

Design & Build: Kewaunee

Fit-Out Area : 2,00,000 SQ. FT

Project Start : Apr' 2012

Closing Date : Jul' 2013

LAB FURNISHINGS:

Fume Hoods – 235 no's

Lab Furniture – 2800 RM

Epoxy Resin Worktops – 28,220 Sq.ft

Glove Box - 33 no's

Laminar Air-Flow cabinet - 04 no's

EXHAUST SYTEMS:

Centrifugal Blowers – 35 no's PP-FRP Ducting – 7500 Sq.mts Scrubber – 18 no's













INDIA FOOD PARK (IFPPL)

TUMKUR, KARNATAKA, INDIA





Design & Build : Kewaunee

Fit-Out Area : 3,00,000 SQ. FT

Project Start : Dec' 2013

Closing Date : Sep' 2014

India Food Park is the largest food Park located in Tumkur Karnataka and has been developed as a Public Partnership (PP) by Future Group's Integrated Food park.

- > Scope: Design to Build (Green-field project)
- > 14 Blocks + Labs
- Civil, Structural Warehouse, Rain Harvesting, R&D Labs, Entry Plaza
- > Area: 3 lakh Sq.ft
- ➤ Project Completed in 32 Weeks

Inaugurated by Prime minister Shri Narendra Modi









PFIZER HEALTHCARE INDIA PVT LTD

IIT- MADRAS CHENNAI, TAMIL NADU, INDIA





Design & Build : Kewaunee

Fit-Out Area : 65,000 SQ. FT (8th & 9th Floor)

Project Start : 1st Jun 2021

Estimated Closing Date : 31st Dec, 2021

Scope Brief:

Major Civil Works, Lab Interiors, Lab Fume Hood, Lab Furniture, Exhaust System, Gas Distribution System, VAV System, HVAC System, Electrical Systems, ETP System, Gas Suppression System, Data & Voice System, Security System, Fire Hydrant System, Drain System, Nitrogen plant, RO Plant, BMS System, Canteen Building Civil & Interiors, Landscaping





DAICEL CHIRAL TECHNOLOGIES INDIA PVT LTD







MALLAPUR, HYDERABAD, INDIA

Design & Build : Kewaunee

Fit-Out Area : 51,000 SQ. FT

Project Start : 15th June 2018

Closing Date : 15th Mar, 2019

Scope Brief:

Major Civil Works, Lab Interiors, Lab Fume Hood , Lab Furniture , Exhaust System, Gas Distribution System, VAV System, HVAC System, Electrical Systems, ETP System, Gas Suppression System, Data & Voice System, Security System, Fire Hydrant System, Drain System, Nitrogen plant, RO Plant, BMS System, Civil & Interiors, Landscaping, Building Facade











SOLARA ACTIVE PHARMA SCIENCES

BANGALORE, KARNATAKA, INDIA







Design & Build : Kewaunee

Fit-Out Area : 31,700 SQ. FT

Project Start : 15th Feb 2017

Closing Date : 13th Aug, 2017

Scope Brief:

Major Civil Works, Lab Interiors, Lab Fume Hood, Lab Furniture, Exhaust System, Gas Distribution System, VAV System, HVAC System, Electrical Systems, ETP System, Gas Suppression System, Data & Voice System, Security System, Fire Hydrant System, Drain System, Nitrogen plant, RO Plant, BMS System, Canteen Building Civil & Interiors, Landscaping











STELIS BIOPHARMA PVT. LTD.

BANGALORE, INDIA





Design & Build : Kewaunee

Approx. Fit-Out Area : 20,500 SQ. FT

Project Start : 15th Mar, 2021

Closing Date : 13th May, 2021

Scope Brief:

Lab Interiors, Lab Biosafety Cabinet, Lab Furniture, Exhaust System, Gas Distribution System, HVAC System, Electrical & UPS Systems, LAN System, Fire Hydrant System, Drain System, BMS System, EMS System

Fast track project completed in 60 days







The Russian Direct Investment Fund (RDIF, Russia's sovereign wealth fund), and Stelis Biopharma Pvt. Ltd., the biopharmaceutical division of Strides, a global pharmaceutical company headquartered in India, have partnered to produce and supply a minimum of 200 million doses of the Russian Sputnik V vaccine against coronavirus sufficient to vaccinate 100 million people

ADAMA INDIA PVT LTD

IKP, TURKAPALLY, TELANGANA, INDIA





Design & Build : Kewaunee

Fit-Out Area : 15,000 SQ. FT

Project Start : 10th Jan. 2020

Closing Date : 30th Oct. 2020

Scope Brief:

Lab Interiors, Lab Fume Hood , Lab Furniture , Exhaust System, Gas Distribution System, HVAC System, Electrical & UPS Systems, LAN System, Fire Hydrant System, Drain System





HIMEDIA

MUMBAI, INDIA





Design & Build : Kewaunee

Fit-Out Area : 1,10,000 SQ. FT

Project Start : Dec' 2020

Closing Date : 15th Nov 2021

Scope Brief:

Major Civil Works, Lab Interiors, Lab Biosafety Cabinet, Lab Furniture, Exhaust System, Gas Distribution System, HVAC System, Electrical & UPS Systems, LAN System, Fire Hydrant System, Drain System, BMS System, EMS System











ARAGEN LIFE SCIENCES (Formerly known as GVK Biosciences Pvt Ltd)





MALLAPUR, HYDERABAD, INDIA

Turnkey : Kewaunee

Fit-Out Area : 52,000 SQ. FT

Project Start : Mar' 2021

Closing Date : Jun' 2021

Scope Brief:

Lab Fume Hood (240 Nos.), Lab Furniture, Exhaust System, Gas Distribution System, VAV System, Electrical Systems











SYNGENE S16 BLOCK

BANGALORE, KARNATAKA, INDIA



Turnkey : Kewaunee

Fit-Out Area : 40,000 SQ. FT

Project Start : Jan'2017

Closing Date : Jul' 2017

Scope Brief:

Lab Fume Hood (150 Nos.), Lab Furniture, Exhaust System, Gas Distribution System, VAV System, HVAC System, Electrical Systems, Gas Suppression System, BMS, Data & Voice System, Security System, Fire Hydrant System, Drain System, CCTV, PAS, Clean Room Partition, Office Furniture











PERFECT DAY INDIA PVT LTD

BANGALORE, KARNATAKA, INDIA





Design & Build : Kewaunee

Approx. Fit-Out Area : 60,000 SQ. FT

Project Start : Feb' 2021

Closing Date : 15th Nov 2021

Scope Brief:

Major Civil Works, Lab Interiors, Fume Hood, Lab Biosafety Cabinet, Lab Furniture, Exhaust System, Gas Distribution System, HVAC System, Electrical & UPS Systems, LAN System, Fire Hydrant System, Drain System, BMS System, EMS System











EXPEC ADVANCED RESEARCH CENTER

DHAHRAN, KINGDOM OF SAUDI ARABIA





Turnkey : Kewaunee

Fit-Out Area : 300 Labs

Project Start : Oct' 2017

Closing Date : Sep' 2021

Scope Brief:

Fume Hood, Lab Furniture, Epoxy worktops, Gas Distribution system, Utility fixtures







ONGOING GREENFIELD (TURNKEY PROJECT)

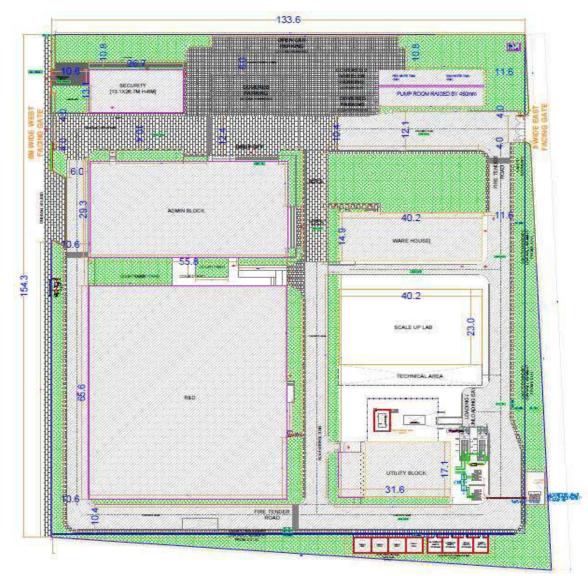






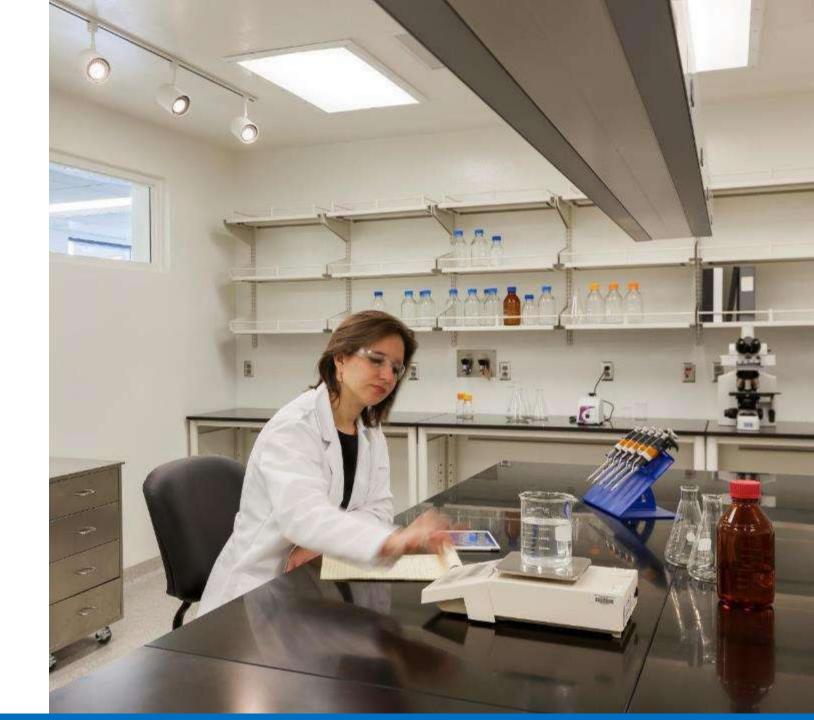
- ➤ Land Area 235,106 Sqft
- ➤ Built up area 191,377 Sqft
- > Lab area 97,000 Sqft
- >Fume hood 180 nos
- > Lab furniture Approx. 1.5 KM
- > Exhaust /Scrubber- 23 nos
- ➤ Refrigeration load— 1200 TR
- > Electrical 3 Mega watt
- > Piping 23 KM
- ➤ Cabling 64 KM
- Facility design for 400 people.
- > Building design for LEED GOLD RATING







REFERENCE LAB IMAGES



LAB CORRIDOR





SYNTHESIS LAB AREA





OFFICE AREA





MANAGER CABIN





CONFERENCE ROOM





CHILLER AREA





ELECTRICAL PANELS





EXHAUST SYSTEM







LEED & SUSTAINABLE SOLUTIONS

CASE STUDY

INDIA REGION



ACCREDITED Kewaunee Team













February 7, 2014

We are pleased to announce that flodney LaBelle, Key Account Sales Manager at Kewaunee, has been accredited as LEED AP, BD+C by USGBC. Rodney is the company's USGBC liaison and was accredited as a LEED Green Associate in July 2009. This new accreditation helps demonstrate both Rodney's and Kewaunee's commitment to serving our customers.

Kewaunee has been a member of the United States Green Build Council (USGBC) since 2001. USGBC is made up of tens of thousands of member organizations, chapters, and student and community volunteers that are moving the building industry forward in a way that has never been seen before.

As leader in both environmentally friendly manufacturing techniques and in environmentally sensitive products, Kewaunee's offering is designed specifically to reduce the impact on the environment and to contribute points to the US Green Building Council's LEED program. Kewaunee is also a FSC Certified manufacturing facility.

Our Kewaunee team works with designers and specifiers to select the casework and fume hood products that will provide the most eco-friendly solution for your lab project. Please join us in congratulating Rodney for his hard work and dedication to effectively serving our customers.

GREEN BUILDING, LEED IGBC - PROJECTS



SOLARA ACTIVE PHARMA SCIENCES (SAPS)

Bangalore, Karnataka



Design & Build Approx. Fit-Out Area Project Start Project Completion Kewaunee 20,500SF Feb 2017 August 17



DAICEL CHIRAL TECHNOLOGIES INDIA PVT LTD

IKP, Turkapally, Telangana



Design & Build Approx. Fit-Out Area Project Start Project Completion Kewaunee 51,000SF Sept 2018 March 2019



ENVIROCARE LABS LTD

Thane, Maharashtra



Design & Build Approx. Fit-Out Area Project Start Project Completion Kewaunee 29,000SF August 2019 Feb 2020



GREEN BUILDING, LEED IGBC - PROJECTS



HIMEDIA

MUMBAI, India

Targeting IGBC Gold

Design & Build Kewaunee Approx. Fit-Out Area

Project Start

Project Completion

84,000SF July 2020 July 2021*



PERFECT DAY INDIA PVT LTD.

Bangalore, India

Targeting IGBC Gold

Design & Build Kewaunee

Approx. Fit-Out Area

Project Start

Project Completion

60,000SF Feb 2020

July 2021*





CLIENT REFERENCES







Johnson-Johnson













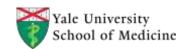




ExonMobil





























Baxter















BECKMAN COULTER











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امحعة

الملكسعود

King Saud University









Givaudan^c

















COLUMBIA UNIVERSITY

IN THE CITY OF NEW YORK



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VERSION: DEC/2020