



WHO WE ARE



Proworks is one of the leading Design Engineering & Project Management Company based at Mumbai.

Proworks offers a range of services, from concept to commissioning across all the sectors such as Food Beverages & Cosmetics (FBC), R&D Centres and Labs, Hospitals & Healthcare, Industrial and Consumer Products.

- FOOD & BEVERAGES
- COSMETICS
- CHEMICALS & FINE ORGANICS
- HOSPITALITY
- HEALTHCARE



LEADERSHIP





R S Swaminathan (Chairman & Managing Director)

A Chemical Engineer with more than 40 years of experience in Facility Design & Project Management, Mr. Swaminathan established the Spectrum Group 25 years ago with a vision to provide Design & Engineering service to the Healthcare Industry.

Ravindra Burse (Director)

An electrical engineer, has over 30 years of rich and versatile experience in Design Engineering and Projects Management. He has hands on experience in Designing facilities for various multinationals in FBC sector in India & abroad. He heads Proworks Engineering operations.





WHO WE ARE

TEAM

150+

Professionals

200+

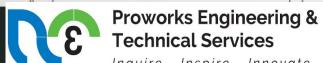
Accomplished **Projects**

25

Years of **Experience**

24+

CountriesServed



PROJECT COVERAGE





ONE STOP SOLUTION

Conceptual Design & Basis of Design Development

- Site Master Planning
- Conceptual Design Development
- GMP Risk Assessment
- EHS Risk Assessment
- General Planning & Engineering
- Equipment Study & Procurement
- Civil & Architecture

Project & Construction Management

- Inter Disciplinary Construction and Project Management
- Construction Supervision
- Procurement
- Time Cost Estimation
- Bill Certification









Engineering

- Detailed Building Engineering including:
- Architectural
- Civil
- Structural
- Process
- HVAC
- Electrical
- Mechanical & Piping
- Instrumentation & Automation
- Fire & Safety

Qualification & Validation

- Validation Master Plan
- GMP Risk analysis
- Qualification Protocols for Process Equipments, PLC, HMI, SCADA, Camera System
- · Computer system validation
- · SOP's for Production, Warehouse, QC, Cleaning, etc.
- Supervision for onsite Validation & Compile reports

PROWORKSENGG.COM



Compliance with Various Standards



















Animal Feed Nutritional Supplement Facility at Near Mumbai

Description:

- Nutritional supplement in powder form
- Spectrum did Feasibility studies, Site Master Planning till Detailed Engineering & Project Management during Execution.
- Animal Feed.
- Buhler Mixer for Composite Mixing.
- High Shear Mixing and Batching Plant.
- Pneumatic Conveying System, Silo System, Batching Hopper, Buhler Mixer, Discharge Assembly and Packaging.
- 10 Tons / day production capacity



- Site Selection Studies and Recommendation
- Conceptual Design
- · Basic Engineering
- Detail Engineering
- Procurement Assistance
- Commissioning & Start Up.

DSM Nutraceutical Products India Pvt. Ltd.	
Location	Ambernath, Nr. Mumbai, India
Built Up Area	25,000 Sq.ft.
Status	Completed

Oral Solids & Liquid Facility at Colombo

Description:

- Tablets, Capsules, Liquids (Multi-level manufacturing)
- The plant is designed for minimum human intervention to prevent human error and includes cutting edge equipment such as the fully automated liquid manufacturing and packing lines, fully-fledged chemical and microbiology labs, separate air handling units to control environment conditions
- Targeted approvals include WHO & EU GMP, PIC/s.
- Annual production capacity of 5 billion tablets and 10 million bottles.



- Conceptual Design
- Basic Engineering
- Detailed Engineering
- Master Planning
- Procurement Assistance & Construction Management
- Documentation & Validation Support.

Morison PLC	
Location	Colombo, Srilanka
Built Up Area	1,80,000 Sq.ft.
Status	Completed

Ophthalmic & Liquid Injectables Formulation at Srilanka

Description:

- Ophthalmic Formulation (Eye Drop)
- Prefilled Syringe)
- In Sterile Injectables (Ampoules, Vials, has existing building of 2 floors. Size of building is 67meter Length X 25meter Width.
- First floor Height is 3meter & second Floor has roof above it with maximum height of 5 meter & minimum height is 3meter.
- PEB Structure
- Spectrum has proposed expansion of building of 19meter length X 25meter width. It has total G+2 floor.



- Conceptual Designs
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Commissioning Assistance
- Documentation & Validation Support

Synergy Pharmaceuticals	
Location Colombo, Sri Lanka	
Built Up Area	50,000 Sq.ft.
Status	Ongoing

Oncology: Injectables & Oral Solids at Srilanka

Description:

- Planned Lines
 - Injectables liquid 3 million Vials/annum
 - Tablets 36 million/annum
 - Capsules 14 million/annum
- The facility has been set up in accordance with regulatory guidelines of US FDA and other local statutory norms for safety and building construction regulation



- Conceptual Designs
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Commissioning Assistance
- Documentation & Validation Support

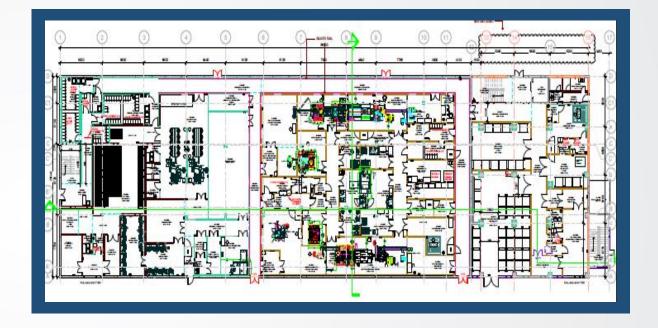
RN Vision Biopharma	
Location	Colombo, Sri Lanka
Built Up Area	1,00,000 Sq.ft.
Status	Ongoing

Ophthalmic and Injectables Facility at Sri Lanka

Description:

- Ophthalmic Formulation (Eye Drop)
- Sterile Injectables (Ampoules, Vials, Prefilled Syringe)
- It has existing building of 2 floors. Size of building is 67meter Length X 25meter Width.
- First floor Height is 3meter & second Floor has roof above it with maximum height of 5 meter & minimum height is 3meter.
- PEB Structure
- Spectrum has proposed expansion of building of 19meter length X 25meter width. It has total G+2 floor. Ground floor height is 10.2-meter, first floor 5meter, second floor 4meter.
- Spectrum has proposed mezzanine floor on 2nd floor from grid 4 to grid 17 for technical area.

- Conceptual Design
- Basic Engineering
- Detail Engineering



Yaden Laboratories Pvt Ltd	
Location	Katunayake, Sri Lanka
Built Up Area	50,000 Sq.ft.
Status	Ongoing

Yeast Manufacturing Facility at Chiplun

Description:

- Brownfield expansion project for yeast manufacturing.
- Seed Fermenter was added, process sustainability project in terms of capacity enhancement
- The facility is FSSAI certified
- ZLD plant, with ETP the major process wherein new aeration tank was built and stand by evaporator.
- The client intends to expand extra block to add packaging line, filter press, cold room etc.
- Third largest yeast manufacturers in the world, Chiplun is the biggest yeast manufacturing facility in India.



- Conceptual planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Project & Construction Management
- Commissioning & Start up .

AB Mauri India Pvt. Ltd.	
Location	Chiplun, Maharashtra
Built Up Area	50,000 Sq.ft.
Status	Completed

Milk Powder & Yogurt Mix Formulation Facility at Delhi

Description:

- Design and Engineering of Delhi Facility.
- Baby care milk powder products
- Yogurt Mix formulation
- Facility Design, Utility and Clean room design as per GMP, FSSAI and HACCP norms



- Conceptual planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Commissioning & Start Up
- Documentation and Validation.

Danone International	
Location	Delhi
Built Up Area	20,000 Sq.ft.
Status	Completed

Baby Food Facility at Chandigarh

Description:

- Facility for Food Samples (Baby Nutrition)
- Facility was designed and being Executed as per Danone guidelines.
- Part of already operational plant. Designed and executed complete utilities specifically dedicated for this project.
- Cold Room and Incubation chambers.



- Conceptual Design
- Basic Engineering
- Detail Engineering
- Procurement Assistance
- Commissioning & Start Up
- Documentation & Validation Support

Nutricia International	
Location	Chandigarh, India
Built Up Area	18,000 Sq.ft.
Status	Completed

Vegan Milk A2 Protein R&D and Lab at Bangalore, India

Description:

- Vegan Milk A2 Protein R&D and Pilot Scale Facility
- Lab Fermentation, Biological Lab and Analytical Lab were designed separately with separate AHU's, which avoids the cross contamination.
- It is design and build turnkey contract in existing building.
- As it is planned in existing building, utility and Lab area was designed considering the existing height, space availability considering the GLP norms.
- One of its kind products to be marketed in India, US based MNC firm.



Scope: (Design and Built)

- Conceptual planning
- Basic Engineering
- Detailed Engineering
- Procurement, Supply & Installation
- Installation & Commissioning

Perfect Day India Pvt. Ltd.	
Location	Bangalore, India
Built Up Area	3,000 Sq.ft.
Status	Completed

Nutraceutical Facility at Gujarat, India

Description:

- Project in IT SEZ.
- Liquid-Liquid extractor and WFE technology.
- Zero Liquid Discharge ETP
- Wax Fired Boiler
- Maximum utilisation of plot.
- Marigold Extraction Plant



- Conceptual Master Planning
- Design & Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Validation Documents
- Construction Management

Omniactive Health Technologies Ltd	
Location	Pune, India
Built Up Area	25,000 Sq.ft.
Status	Completed

Organic Products Facility at Bangalore

Description:

- Set up Plant for Herbal Product Range
- Cosmetic Skin care and Hare care
- Phase wise project comprising total of 20 acres land, 1st phase is 50,000 sq. ft project.
- Design, Engineering and Project management of the entire facility.
- Standards need to maintained are GMP, FSSAI, FDA, HACCP.



- Conceptual planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Commissioning & Start Up
- Documentation and Validation.

The Himalaya Drug Company	
Location	Bangalore
Built Up Area	50,000 Sq.ft.
Status	Completed

Herbal Extraction & Formulation Facility at

Masat

Description:

- This was an old Zandu facility acquired by Emami & was to be upgraded to meet GMP requirements as well as to enhance the production capacity.
- Herbal Extraction of Plants
- Herbal Oral Solids
- Herbal Cosmetics Powders
- Herbal Cosmetics Oils
- Fermentation
- Liquid Manufacturing
- Filling & Packaging Lines
- Utilities



- Conceptual Planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Process Automation
- Qualification and Validation

Emami Ltd.	
Location	Masat, Gujarat
Built Up Area	1,10,000 Sq.ft.
Status	Completed

Herbal Extraction & Formulation Facility at Dongri

Description:

- 7 Ayurvedic manufacturing suits & 6 packing lines.
- 5 Cosmetic manufacturing suits & 7 packing lines.
- Manufacturing facility for cream & lotion.
- WHO GMP compliance Ayurvedic section & cosmetic section upgradable to WHO GMP.
- Centralized warehouse at basement & QC lab on first floor.
- Effective CIP System & Process Automation
- Specially Designed Storage System for Raw Material with Temperature & Humidity Control.
- Bulk Material Handling System Automation
- Effective Dust Extraction System for Herb Pulverization Area.



- Conceptual Planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Process Automation
- Qualification and Validation

Emami Ltd.		
Location	Dongri, Maharashtra	
Built Up Area	1,00,000 Sq.ft.	
Status	Completed	

Nutraceutical & Probiotics Facility at Ahmedabad

Description:

- Nutraceutical products facility for Sachet, Capsule and Tablet.
- The facility was set up in accordance with regulatory guidelines of US FDA and other local statutory norms for safety and building construction regulation.



- Conceptual planning
- Basic Engineering
- Detailed Engineering
- Procurement Assistance
- Commissioning & Start Up
- Documentation and Validation.

Sundyota Numandis	
Location	Ahmedabad, India
Built Up Area	85000 Sq.ft.
Status	Completed



Laboratories and R&D

Description:

- Facility Sections: Formulation Development Lab, Analytical Development lab, Wet Chemistry Lab, Packaging R&D Lab, Pilot Plant for Tablet & Capsules. Ancillary Areas like, Offices, Cafeteria, Reading Room, Training Room, Recreation Room, Utilities Etc.
- Site was an under construction multi-storied building which was customised to suit clients requirements for floor loading, increased heights for clean room floors and cut-outs for some of double height equipment.



- Site Selection & Feasibility Study
- Conceptual Design & Preliminary Design
- Detailed Design
- Procurement Assistance & Construction Administration
- Facility Commissioning
- Qualification & Validation

Abbott Healthcare Pvt. Ltd	
Location	Mumbai , India
Built Up Area	125000 Sq.ft.
Status	Target Project Completion in November 2018.



R&D Center at Mumbai

Description:

- Set up by renovating a 30 year old building.
- Main sections built were Analytical Lab, Wet Chemistry Lab, PBOEL 4 Sampling Facility, Stability Chambers section, Offices for Chemists & Scientists and Utility area.
- Laboratory equipped with 60 HPLCs and 4 Stability Chambers.
- Planned to accommodate 40 Scientists.
- Floor height was only 3.6 m and it was a challenge to accommodate HVAC and other services.
- Built as per specific EHS and Quality guidelines of J&J.



Scope:

- Basic Engineering
- Detailed Engineering
- Procurement Assistance.

Janssen Cilag Pharmaceuticals		
Location	Mumbai, India	
Built Up Area	18000 Sq.ft.	
Status	Completed	

PROWORKSENGG.COM



Hi-Potent Pilot Plant at Mumbai

Description:

- Green Field Pilot Plant for Development, Pre-Formulation
 & Pilot Scale Manufacturing.
- PBOEL Category 3B Containment
- Solids, Liquids & Semisolid Formulations.
- Isolators, Tyvek Suits for employee safety.
- Close Transfers
- Reverse Laminar Air Flow
- Effluent De-contamination



Scope: Turnkey Basis

- Conceptual Design
- Basic Engineering
- Detailed Engineering
- Procurement, Supply & Commissioning
- Construction Management

Janssen Cilag Pharmaceuticals		
Location	Mumbai, India	
Built Up Area	25000 Sq.ft.	
Status	Completed	

PROWORKSENGG.COM



Key Clients



































CONTACT US











Head office

608, Oriana Business Park, Road No. 22, Wagle Estate, Thane (West) 400604 Maharashtra, India

Tel: +91 22 21580500, Mobile: +919975566917 Fax: +91 22 21580500

Website: https://proworksengg.com

