SYNCRO



PLANNING DOCUMENT

# Commercial Laundry Planning Document

A practical guide to planning a commercial laundry operation, from concept to commissioning.

SECTION 02

# Introduction

**12,000**
INSTALLATIONS

**70,000**
MACHINES IN OPERATION

**18,000m**
MANUFACTURING FACILITIES

**50**
YEARS OF EXCELLENCE

## Objective

Laundry solutions that deliver results.

We design and manufacture industrial laundry machines that are efficient, durable, and globally competitive while reducing cost per cycle and enhancing operational ease for our clients across sectors.

## Customers

Efficiently serving all sectors.

From leading hotel chains and hospitals to garment manufacturers and government institutions, Stefab caters to clients across hospitality, healthcare, apparel, & industrial segments.

## Services

We support you at every step.

We offer comprehensive laundry solutions, including project designs, utility economics feasibility charts, installation, training, and prompt after-sales service. Our focus is seamless operations and client satisfaction at every step.

## Dealers

The ASA community.

Our Authorized Stefab Associates are an extension of our sales team with complete knowledge and can guide clients in choosing the right products, and deliver world-class services and support. Ensuring satisfaction at every step, wherever you are.

## Products

Widest range. Affordable prices.

We manufacture a full spectrum of laundry equipment like washer extractors, dryers, flat-work systems, dry-cleaning & finishing machines, built to handle high volumes & deliver consistent results.

## Made for the world

Precision engineering. International quality.

Since 1975, Stefab has been engineering world-class industrial laundry machines. With over five decades of expertise, we build cost-efficient machines that deliver premium solutions trusted across industries.



SECTION 03

# A closer look.











SYNCRO

# Quality is as much in the actual product, as in the mind.

Indeed, in this interface of vision & reality, an idea is born. For Stefab, it all began in 1975: a desire to do what no other company had done before — make user-friendly, cost-effective industrial laundry, dry-cleaning, apparel processing and steam finishing machines at par with world standards.

Today, 18,000 square metres of state-of-the-art manufacturing facilities, computer-aided design and a work-force of over 350 qualified and experienced people attribute to the high standards of Stefab machines used worldwide. With over 12,000 major installations, Stefab quality and expertise continue to remain unmatched.

## Deepak Arora

Managing Director



SECTION 05

# Widest Range, Affordable Prices & Truly World Class.

SECTION 06

# Understanding Commercial Laundry Operations

Commercial laundry is a rapidly growing service industry that plays a vital role in maintaining hygiene standards, extending textile life and supporting sustainability goals. As businesses and consumers increasingly prioritize cleanliness and convenience, the demand for professional laundry services continues to expand across hospitality, healthcare, industrial and retail sectors.

## Overview

This guide provides strategic insights to help you plan an efficient laundry setup that maximizes return on investment while maintaining operational excellence.

Commercial laundry operations are broadly categorized into two segments:

## Institutional Laundry (B2B)

Retail Laundry (B2C) Catering to individual consumers.

Serving hotels, hospitals, industries and institutions.

How to plan your laundry system? Successful laundry operations require careful evaluation of several foundational factors like machines and capacities, ROI, operations and costs before you make an investment.

Start by defining who you'll serve & how! These operational factors determine machine mix, throughput and service standards:

• Retail or Institutional: Walk-in retail vs contractual. • Segments to cater: Hospitality, healthcare, government or residential pickup & delivery. • Load expected: Peak load vs average load with daily turnaround commitments. • Pricing structure: Per kg, per piece, per order or lump-sump pricing. • Demographics: Location, target market, customer type etc.

The above factors need to be evaluated step by step in order to plan the most profitable & efficient setup while the sustainability of a business model depends on factors listed below.

## CapEx Manpower cost Energy cost Rent & Misc. Estimated Revenue

Map operational needs to the financial model to calculate ROI. For equipment recommendation and ROI dynamics & validation, get in touch with us nd we could help you with a custom tailored solution for your business.







SECTION 07

# Institutional High volume + Consistency + Automation

Retail Diverse Garments + Delicate Handling + Premium Finishing

SECTION 08

# Institutional Laundry

Institutional laundries operate at a scale where durability, efficiency and consistency are non-negotiable. Hotels, hospitals, railways and industrial units often run their laundry operations all year non-stop, which means the machines must withstand continuous load without compromise.

## Overview

Why Institutional Laundry Needs Heavy-Duty Machines? Institutional laundries typically use larger-capacity machines than retail setups because: • Linen types are fixed and predictable, making sorting and processing faster. • Daily workloads are significantly higher, requiring robust machines that maintain output quality. • Efficiency in energy, water and detergent consumption directly impacts profitability. When these parameters are optimised, the operation becomes highly reliable, cost-efficient and scalable

Automation for High-Volume Commercial Laundries A commercial laundry handling one to six tons per shift benefits greatly from full automation, including:

## High-efficiency

Flexibility for Every Budget Some businesses operate with strict budgets but still need to process high loads. Stefab offers: • Fully automatic systems for maximum efficiency. • Semi-automatic options that reduce investment without affecting throughput.

## drying Ironing systems Packing &

With Stefab, you can build an advanced laundry that combines technology and long-term durability. Automated sheet feeders and folders dramatically reduce manpower while improving finish quality.

Smart Technology & Compatibility • Stefab washers can intake any detergent, manually or through automated dosing systems used globally. • Built-in PLC with Wi-Fi connectivity ensures seamless monitoring and program control. • A well-planned outsourced laundry can handle all B2B segments: Healthcare, Hospitality, Government, Industrial and more.





SECTION 09

# Retail Laundry

Retail laundry deals with diverse garments, fabrics and customer expectations. Unlike institutional laundry, the loads vary daily and each item requires individual attention. This model needs machines that offer flexibility, fabric safety and efficient finishing.

## Overview

Essential Machines for Retail Laundry Retail setups typically include: • Small-capacity washers with hybrid capability. • Fully enclosed dry-cleaning machines. • Energy-efficient dryers with multiple fabric modes. • Pressing & finishing equipment for all garment types. • Auxiliary systems such as conveyors, tagging machines, packing units, steam finishing, etc.

Understanding the Retail Garment Handling Process A simple chart can illustrate: Intake > Tagging > Sorting > Washing/Wet-cleaning > Dry-cleaning > Drying > Finishing > Quality Check > Packing > Delivery

## Retail Laundry Can Be Planned in Two Ways:

A. Factory Model Ideal for servicing multiple outlets across a city. A hub & spoke model with one processing unit servicing multiple outlets.

B. Live Laundry Model A modern concept where the customer sees the laundry operations on-site behind the counter.

• A centralised factory caters to several collection centres. • Requires planned pick-up & drop logistics. • Proper garment storage systems to prevent damage. • End-to-end operations rely on robust software + tagging technology for zero errors.

• All machines are placed behind the counter. • Offers transparency and enhances trust. • Creates an attractive, premium customer experience. • Reduces logistics, simplifies handling and improves turnaround.

Ensuring Trust Through Quality Retail laundry must maintain high standards because customers trust you with expensive garments from cotton and chiffon to wool, silk, leather and more. Each fabric demands a specific cleaning method, and expertise builds over time.

Retail laundry success depends on: • Professional presentation • Skilled handling • Fabric knowledge • Customer confidence • Consistent service quality

SECTION 10

# Extensive Range of Products

SECTION 11

# Why Choose Stefab?

Stefab machines are engineered for continuous, high-volume commercial laundry operations. Built with industrial-grade materials, they deliver efficiency, durability, and consistent performance while handling diverse linen categories and heavy daily loads. Commercial laundries benefit from faster turnaround times, reduced downtime, longer equipment life, and reliable output that supports scale and profitability.

## STRONG BUILT

Downtime directly impacts revenue in commercial laundry operations. Stefab's service network ensures uninterrupted productivity through quick response times, genuine spare parts, and trained technical experts. Preventive maintenance, operator training, warranty programs, and dedicated service support make Stefab a dependable partner for commercial laundries operations.

## ASSURED SUPPORT

Every commercial laundry operates with unique capacity and workflow demands. Stefab provides end-to-end laundry design and consultancy services including layout planning, machine selection, utility optimization, workflow efficiency, and cost analysis. We maximize space utilization, improve productivity, reduce operating costs, and create scalable laundry systems built for growth.



SECTION 12

# Made for the World.

Stefab combines the precision, innovation and performance that match international standards with the advantage of being built. Each machine blends precision engineering, cutting-edge technology, and unmatched durability to meet the toughest operational demands. Designed for efficiency and reliability, our systems empower businesses to maximise performance, minimise costs and maintain the highest standards.

## Durability

Stefab

EU / American Manufacturers

Chinese Manufacturers

Local Equipment

## Technology

Stefab

EU / American Manufacturers

Chinese Manufacturers

Local Equipment

Stefab EU / American Manufacturers Chinese Manufacturers Local Equipment

## Energy Efficiency

Stefab

EU / American Manufacturers

Chinese Manufacturers

Local Equipment

SECTION 13

# Genuine Parts

## Original Quality

Spare parts are available locally as well & may cost less initially, but they are not engineered specifically for Stefab machines. Often they need to be replaced and can damage other parts and affect the performance of our machines. One has to be careful, and it is always best to install authentic parts.

Every component in the machine has the highest level of R&D & technical expertise behind it. The quality of genuine parts cannot be compared to the parts available locally. Stefab has been producing laundry machines for over 50 years.



## Excellent Service Capabilities

Our machines are built to last and they are backed up by industry's best service & warranty policies.

Service is one of the most important factors while you choose your laundry equipment partner. With Stefab one can be totally sure of the same. Our Service is backed by our engineers and associates spread nationwide and abroad. We understand breakdowns and it has always been our first priority to address complaints providing quick service and genuine parts to our customers.

We stand behind every machine we produce with comprehensive warranty on all machines, which is by far a better value than what is offered by the competing companies. Stefab comprehensive warranty plan proves the strength of our machines. Our commitment to producing advanced and reliable machines is braced by our warranty policy.

Should you require more information on Service & Warranty, please contact us on service@stefab.com



SECTION 14

# Choosing the right heating mode!

Parameter Electric External Boiler Gas

| Plug-n-play. All machines have in-built electric heaters which makes it extremely convenient for quick installation. | Steam boiler with chimney of a certain height along with diesel tank & water softener plant. Steam piping to all machines with proper insulation is required. |
|---|---|
| Negligible | Moderate to High |
| 10/10 in washing<br>9/10 in flat-work ironing | 10/10 |
| None | Yes, Diesel Tank |
| Only heaters need to be replaced depending on the usage. | Low maintenance of machines but boiler needs continuous monitoring & maintenance. |

SECTION 15

# Achieving lowest cost per cycle

For up-to three tons per shift we suggest an all electric setup. As & how the capacity of the laundry setup goes beyond that, the electric load substantially increases. If higher electric load is available at site at an economical rate per KW, then an all electric setup is the most feasible up-to even three tonnes/ shift.

For instance a Stefab 60 kg washer extractor's drive motor consumes only 6 units & its electric consumption for heaters is only 9 units per cycle, which raises the temperature of water up-to 70 Degrees. This system is the most efficient as per the ongoing industry norms.

Similarly, the ironers produced by us contribute significantly & help us to choose a system where we put the least ecological impact on environment. We are amongst the very few to produce an all electric chest heated ironer in 830 MM dia consuming only 72 KW, achieving an evaporation rate of 100 Kg per hour making it by far the most effective solution for flat-work ironing.

Stefab technical team furnishes consumption parameters charts with real-time economics for the user to understand the best system as per their needs.

If the electric load is limited, then the heat production from electric heaters is then replaced by the major fuel available. Electricity in this case then is only used to cater the motor loads of the machines.

Therefore, every setup is unique and to conclude the best arrangement of heating modes depends on various parameters. Initial CAPEX budgeting in some cases also play an important role to decide if the user wants to invest in steam boilers or not. Boiler is not the only investment but the chimney, piping, tanks etc associated with it increases the project costs substantially. Stefab has a wide range of products with multiple heating modes which gives the freedom to the user to choose the right heating mode as per the site conditions & dynamics.

Our solution with competitive CAPEX & OPEX charts lead to the lowest per KG cost per cycle in any segment. Visit stefab.com for more information.



SECTION 16

# Technical Competence

Stefab has developed indigenous technologies over the years for all segments of machines. These advancements has given us a strong competitive edge in the industry making us the most preferred choice when it comes to efficiency and ecological footprint. These particular independent innovations are precisely developed keeping in mind the increasing costs of manpower, fuel, water etc.

The systems we deliver are the most effective solutions for any customer comprising primarily of washers, dryers and ironers along with auxiliary equipment. Every product has one or two key components which eventually are the deciding factor to validate the efficiency. Stefab has precisely improved the core competence of each of its major offerings which make the end solution more reliable, efficient and cost effective in the long run.

It is the cost per cycle which makes the difference for any industry and that is what we as a brand, focus on.

Precision machined, ground smooth & polished chest exerts uniform high pressure across the entire roll through pneumatic cylinders. We are among the very few in the world to produce an all electric 830 mm dia, chest heated ironer. Stefab has more than 2000 chest ironers in operation worldwide.

Fully programable computer captures all the features for any customized process. The preset programs can be easily modified or erased. Step by step display provides cycle advance, variable time signal & diagnostic checks. IoT Enabled with smart wireless connectivity. Easy to understand & operate. MYHMI

Advanced moisture sensors designed specifically for the professional dryers enabling high efficiency. No manual intervention required by the user. The PLC auto detects the moisture in the basket & gives cut-off signals to the heating mode aptly.

All types of dozing pumps are compatible with Stefab ST9, ST10, ST11 PLCs giving the user utmost flexibility to achieve great washing results. Our PLCs works in sync with dozing computer uninterrupted. Up-to six dozing pump systems can be installed to each machine.

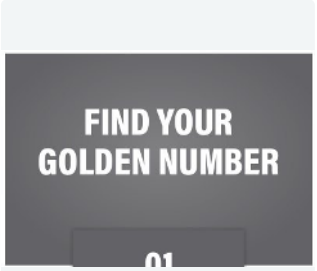
The four beater basket design in our AX Range results in maximum beating action & effective washes in shorter cycle time. The polished stainless steel beaters are designed with utmost precision then slid into the basket & laser welded.

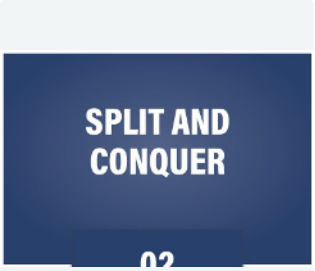
2 Length Folds + 3 Cross Folds. 1st Primary fold through full vertical drop. 2nd Primary fold by converging rollers. 1st Cross fold by a "Blade fold" directing the linen between rollers, 2nd Cross fold by an air jet & 3rd Cross by automatic "Lift fingers" through reverse conveyor mechanism.

SECTION 17

# The Commercial Laundry Guide

Designed to help businesses build efficient, scalable, and future-ready laundry operations. It focuses on balancing capacity, optimising workflow, and reducing operational costs through smart system planning. By aligning machines, sorting, finishing, and layout, this guide ensures consistent performance, faster turnaround times, and long-term operational reliability.

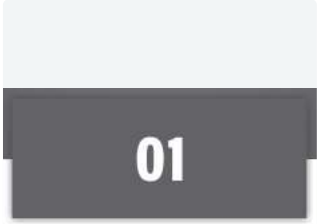


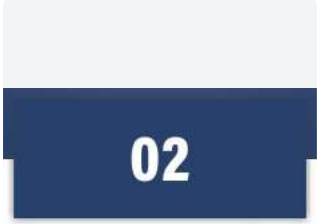



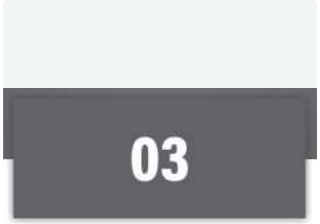


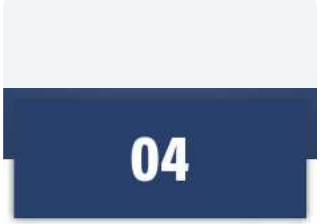




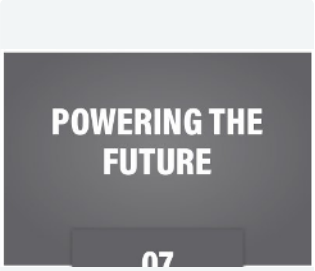





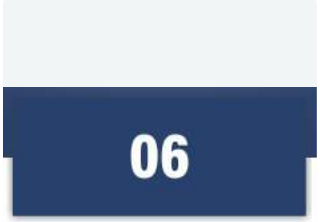


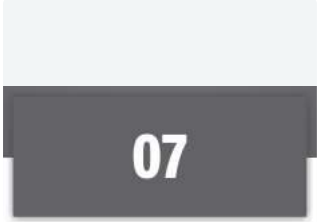















### 7 Step Blueprint

01 02 03 04

### DESIGNED FOR OPTIMISED FLOW

05 06 07

## What this guide delivers!

• Precise washer, dryer, and finishing capacity. • Predictable daily output & faster turnaround. • Reduced labour movement and handling time. • Lower energy, water, and operating costs. • A scalable system built for long-term performance.

A well-designed commercial laundry is not about speed alone — it's about balance, flow, and consistency.

## From a Blueprint to Real-World Performance!

This 7-step approach brings structure and clarity to commercial laundry design, ensuring every process supports the next — without overloads, idle time, or inefficiencies.

## Commercial Laundry Guide! A Video Walkthrough!

https://www.youtube.com/watch?v=uHnoq48MXWs&t=32s Click the above link to watch the video or Scan the QR code to see how this 7 step blueprint works in real-world commercial laundry operations.

SECTION 18

# Stefab Standard Commercial Laundry Systems.

The below list of Commercial Laundry systems can handle load from 125 Kg to 10,000 Kg Per Shift.

| CLI/ CLR 125 E | COMMERCIAL LAUNDRY SETUP HANDLING 125KG LOAD IN 8 HRS. |
|---|---|
| CLI/ CLR 250 E | COMMERCIAL LAUNDRY SETUP HANDLING 250KG LOAD IN 8 HRS. |
| CLI/ CLR 500 E | COMMERCIAL LAUNDRY SETUP HANDLING 500KG LOAD IN 8 HRS. |
| CLI/ CLR 750 E | COMMERCIAL LAUNDRY SETUP HANDLING 750KG LOAD IN 8 HRS. |
| CLI/ CLR 1000 E | COMMERCIAL LAUNDRY SETUP HANDLING 1000KG LOAD IN 8 HRS. |
| CLI 1500 E | COMMERCIAL LAUNDRY SETUP HANDLING 1500KG LOAD IN 8 HRS. |
| CLI 2000 E | COMMERCIAL LAUNDRY SETUP HANDLING 2000KG LOAD IN 8 HRS. |
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| CLI 4000 S | COMMERCIAL LAUNDRY SETUP HANDLING 4000KG LOAD IN 8 HRS. |
| CLI 5000 S | COMMERCIAL LAUNDRY SETUP HANDLING 5000KG LOAD IN 8 HRS. |
| CLI 6000 S | COMMERCIAL LAUNDRY SETUP HANDLING 6000KG LOAD IN 8 HRS. |
| CLI 7000 S | COMMERCIAL LAUNDRY SETUP HANDLING 7000KG LOAD IN 8 HRS. |
| CLI 8000 S | COMMERCIAL LAUNDRY SETUP HANDLING 8000KG LOAD IN 8 HRS. |
| CLI 10000 S | COMMERCIAL LAUNDRY SETUP HANDLING 10,000KG LOAD IN 8 HRS. |

SECTION 19

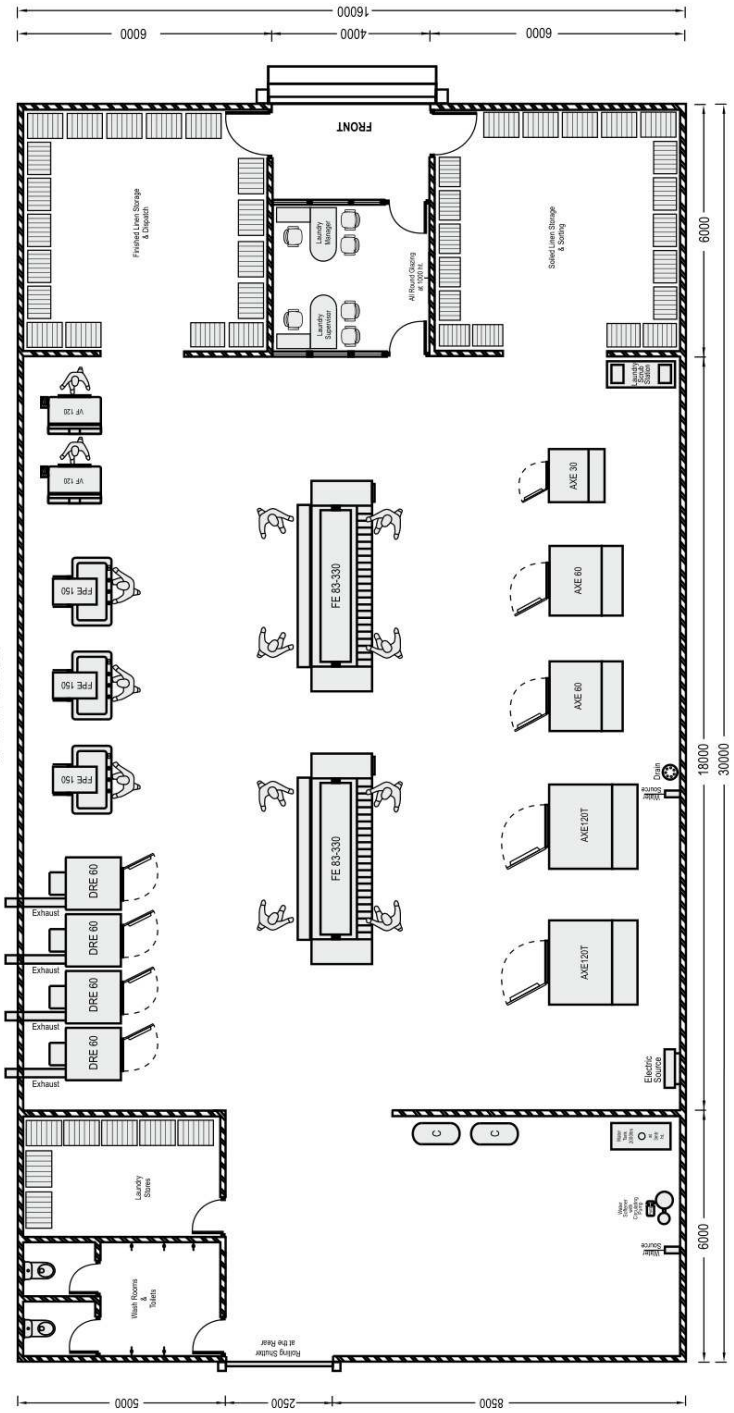
# UTILITY COST SHEET & 2D LAYOUT

## UTILITY COST SHEET & 2D LAYOUT

STEFAB®

**SYSTEM : CLI 3000 E**

MECHANIZED LAUNDRY HANDLING 3000KG OF COMMERCIAL LINEN IN 8 HRS.
ALL ELECTRIC




All dimensions are in mm. Scale: 1 Square = 250mm approx.

This is a Typical Layout that may be altered or modified to suit a particular requirement. Recommended Clear Height : 5 mtrs.

| S.No. | MODEL | MACHINERY | OUTPUT |
|---|---|---|---|
| 1 | AXE 30 | Stefab Washer Extractor. High Spin. Soft Mount. 30kg Cap. Qty: 2 Nos. | @30kg/cycle x 9 cycles x 2 Nos. 540kg appr./ 8 hrs. |
| 2 | AXE 60 | Stefab Washer Extractor. High Spin. Soft Mount. 60kg Cap. Qty: 4 Nos. | @60kg/cycle x 9 cycles x 4 Nos. 2160kg appr./ 8 hrs. |
| 3 | DRE 60 | Stefab Drying Tumbler. Reversible. 60kg Cap. Qty: 3 Nos. | @60kg/cycle x 9 cycles x 3 Nos. 1620kg appr/8 hrs. |
| 4 | FE 83-330 | Stefab Flatwork Drying Ironer. Chest Heated. Size: Ø 830 x 3300 L. Qty: 2 Nos. | @ 130kg/hr (Direct from Washers) x 2 Nos. 2080kg appr./8 hrs. |
| 5 | FPE 150 | Stefab Flat Bed Drying Press. Head & Buck Size: 1500 x 750. Qty: 2 No. | @ 30kg/hr (Conditioned from Dryer) x 2 Nos. 480kg appr./8 hrs. |
| 6 | VF 120 | Stefab Vacuum Finishing Tables. Qty: 2 Nos. With Steam Irons | @5kg/hr x 2 Nos. 80kg appr./8 hrs. |
| 7 | C | Air Compressor 5 HP Qty: 2 Nos. | Sufficient for Flat Bed Presses & Flat Work Ironers |

DISCLAIMER : All the above information & data, are to be considered indicative only. Output also depends on the efficiency of the operators. No guarantee of its observance can be given.

**SALIENT FEATURES OF 'RL 2500 S'**

1. The Capital Investment is much lower than compatible European or US Machines. All machines are indigenously manufactured. The Spare Parts areavailable 'Off-the-Shelf' & at an economical price through out the life span of machines.
2. All machines have multiples of similar models & incase of breakdown, the other similar machine can take its load with the same program. The output from the laundry shall be least affected. Also, Spare Parts inventory is dare minimum.
3. Railway Blankets are more effectively Washed than Dryerated / Washer Extractors have in built program for Blankets & Woollens.
4. The Layout felicitates systematic flow of linen from receiving, sorting, washing, drying, pressing & dispatch with easy monitoring of all the processes.

**OPERATIONAL ECONOMICS DURING 2011 AT NEW DELHI**

The following economics are indicative only & shall drastically change with variations in costs of water, electricity, manpower, diesel, wash processes, detergents, location, packaging, distribution & transportation etc.

**Electricity Requirement / Cost:** 572KW. Max Connected Load. 415 V, 3 Ph. Avg. Consumption: 300 Kw/ hr. @Rs10 per unit/hr x 300 x 8hrs = Rs 24000/-

**Diesel Requirement / Cost:**
Not Applicable

**Manpower Cost:**
Average 20 persons

**Detergent / Chemicals Cost:**
Average @2% per kg of linen washed @Rs.125 per kg = Rs. 7800

**Water Requirement / Cost:** @ 65 (2.5" BSP) line. Head range : 5 - 20 mtrs.
@5700 ltrs / hr Max. @Rs.1500 per 10000 ltrs. x 8 hrs = Rs. 6840

The above costs are exclusive of establishment costs viz: land & building, cost of capital & working investments, depreciation, maintenance etc. & other administrative overheads.

SECTION 20

# 3D Layouts

## 3D Layouts



## Engineered for Excellence!

### Design

Developed for the demanding nature of commercial laundry operations, this solution combines smart engineering with a well-organized layout to support high-volume output and uninterrupted performance.

### Durability

Robust build quality and advanced systems enable consistent handling of repetitive workloads while maintaining reliable wash standards.

### Experience

The result is a high-performance commercial laundry solution that enhances productivity, streamlines operations, and ensures long-term operational reliability.



SECTION 21

# EXPERIENCEEXCELLENCECreatingaSafe World PSM Total Solutions

Almost every hotel chain is a user of Stefab Laundry Machines in South Asia.

## Overview

TM

DHOBILITE Making Laundry Easier

Your cleaning expert

A Leader in Apparel Processing

.com

Commercial and Industrial Laundromat

D R Y C L E A N | L A U N D R Y

STRAITS LAUNDRY

L A U N D R O M A T E X P E R T S

L A U N D R Y D R Y C L E A N

LILA INDUSTRIAL LAUNDRY ACCESS

LAUNDROMANIA

L A U N D R Y

SYNCRO

# Let’s build your laundry.

Talk to a Stefab laundry planner about your project. We will map the workflow, size the equipment and prepare a utility plan for your site.

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**CORPORATE OFFICE**

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**SALES**

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Project planning & equipment selection

**SERVICE**

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**SUPPORT**

24/7 global service network
Genuine parts & technical support