

Our Blown Film Section

Mamata Extrusion System

- Blown Film Extrusion Machines
- 3L, 5 L, 7 L & UG 3L



Plast Control

- Auto profile control
- Auto width control
- Internal bubble cooling control

Prasad Koch and Cool-tech

- Octopus System - 3 No.
- IBC & OBC Chillers – 8 No.

Techno Design

- Granule Storage Silos - 6 No.
 1. Single chamber- 50 M3
 2. Double chamber- 50 + 50 M3
 3. Double chamber- 50 + 50 M3
 4. Double chamber- 120 + 60 M3
 5. Double chamber- 140 + 40 M3
 6. Double chamber- 175 + 75 M3

Upcoming Machines:

- 1) Three Layer,
- 2) Five layer POD,
- 3) Seven layer and
- 4) upgrade of Existing 3 Layer



Extrusion Die
as per
Brampton Design

Auto Material Handling System

Silo Feeding System

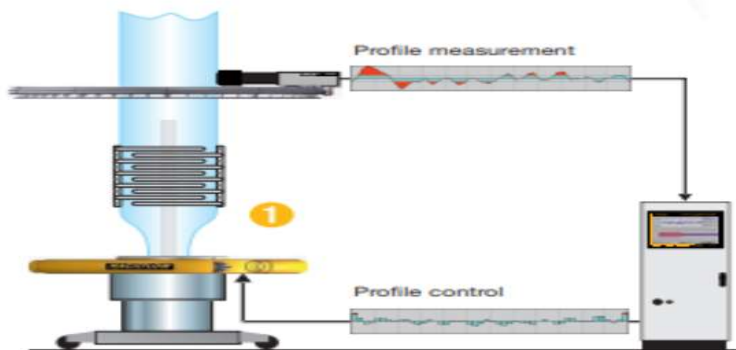
- The silos can be used for protective storage of raw materials.
- The silos can be fitted with the very latest load cell and level measurement technology.
- Pressure Conveying can be connected with multiple silos.
- Diverter valve for multiple silos feeding with one feeding system.
- Consume less storage space
- Waste reduction
- Fast product changes
- Required less Man power



PLASTCONTROL - Automations

Auto thickness Measurement and Control

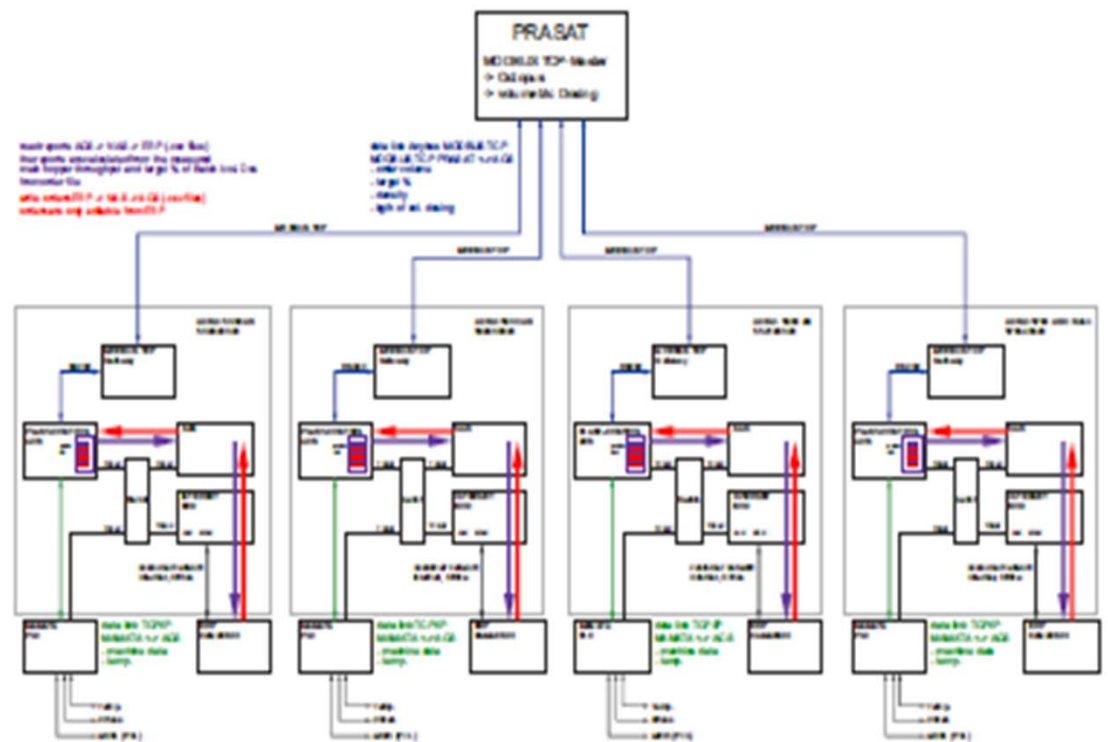
- Profile measurement with
automatic scanning system
- Profile Control systems utilize the profile measurement devices and transmit profile data to the computer.
- The software calculates and carries out the correct positioning of the actuators which, in turn, control air flow through the **segmented air ring**
- 50% reduction of the basic tolerances



KAMAKSHI FLEXIPRINT

Network layout and logical connections

PLASTCONTROL



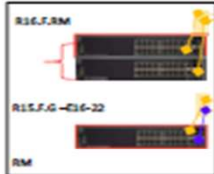
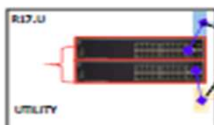
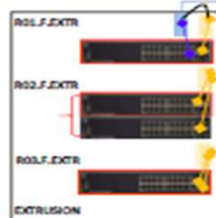
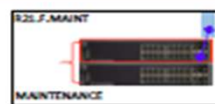
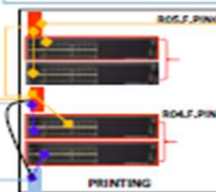
Version 1.3_008

PROPOSED ERP & ELV NETWORK LAYOUT

DOTCAD
getting you there

SERVER ROOM R13-ADMIN

ERP & ELV
Servers & Storage



Snapshot of BFL Machine specification

Specifications	UOM	3 Layer Existing	3 Layer Machine	5 Layer POD Machine	7 Layer Machine
Extruder Size	mm	55:55:55	65:90:65	50:65:75:65:50	65:50:50:50:50:50:65
Max. Pumping Capacity	Kg/h	83:83:83=250	147:378:147=672	76:147:247:147:76=693	147:76:76:76:76:76:147=674
Die Size	mm	300	475	475	375
Die type		Spiral Mandrel Die	Spiral Mandrel Die	Pancake Die	Pancake Die
Max. width	mm	1500	2035	2035	1650
IBC		Yes	Yes	Yes	Yes
Bubble cage type		Manual	Motorized	Motorized	Motorized
Collapsing frame Adjustment		Manual	Motorized	Motorized	Motorized
Film Splice		Manual	Automatic	Automatic	Automatic

7-layer machine capabilities

Suitable for barrier film- Nylon/EVOH/Nylon Based

➤ Application :-

- ✓ Oil Packaging
- ✓ Ghee packaging
- ✓ Vacuum packaging of cheese, meat and chicken.
- ✓ Milk packaging
- ✓ Thermoforming film for trays



Easy Peel Lidding Film

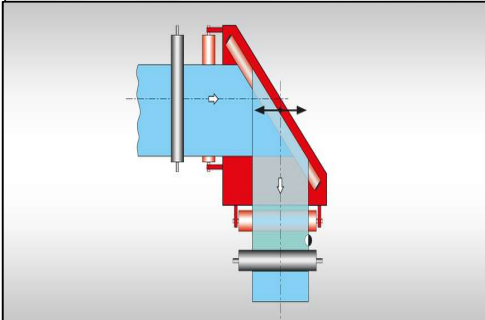
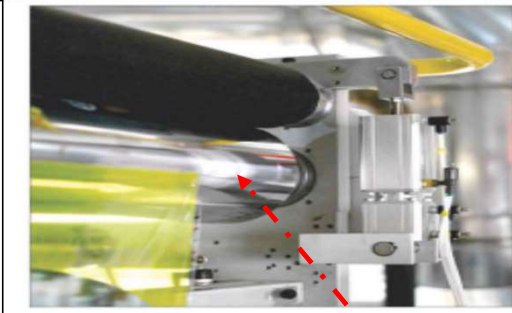
Applications:

- ✓ Food packaging:- Frozen food, Desserts
- ✓ Medical applications
- ✓ Industrial applications



Our Printing Section

Corruti – Solomark 6400 CL



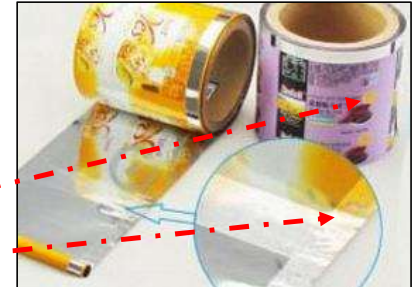
Pre-heated
steel roller

Unique Features of both the Pelican Machines

- 1. Movable Turn Bar Assembly**
facilitates 6+3, 7+2, 8+1
(Reverse side + Surface side)
- 2. Extended Double dryer: 1 & 9
Station**

Printing on surface side of film

Cold seal adhesive on reverse
side of film



- 1. Pre-heating facility in infeed unit**
- 2. Electrostatic Assistance (ESA)**

Critical vignette halftone jobs



With ESA print

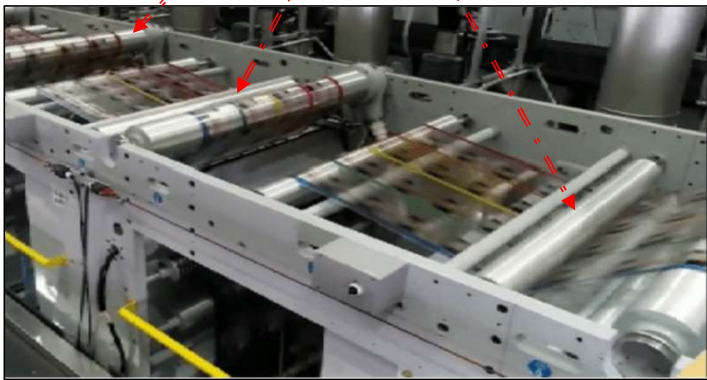
Without ESA print

Paper printing sachets & pouches



3D & 2D Punched-plate nozzle type drying hood

Chill roller



Shrink Sleeves & Wrap around Labels

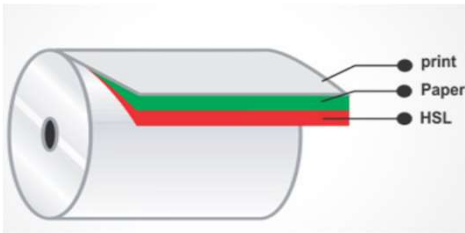
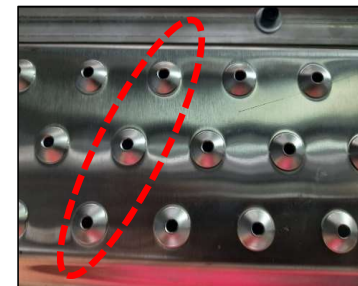
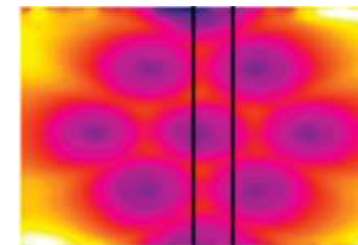


Advantages:

1. We can print easily with water base ink or primer
2. This dryer design helps for high GSM heat seal lacquer applications
3. On-line cold seal and Shrink jobs with high speed.
4. Gentle air flow even with high velocity and pressure
5. Active Type Static Eliminator

On-line cold seal

High
GSM
HSL



Line A
Maximum

Line B
Minimum



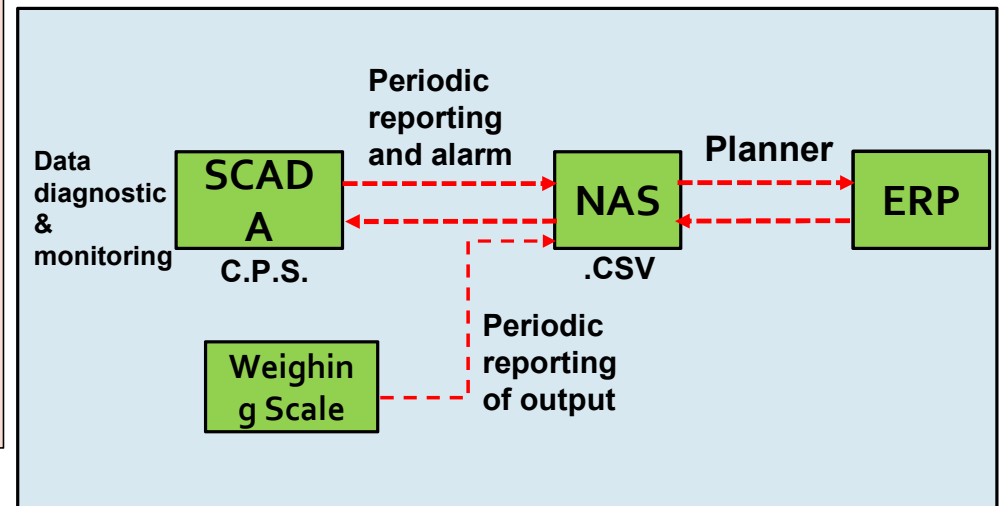
Cerutti Press Supervisor system (SCADA) link with ERP

The C.P.S. is a press/operator interface system its functions are:

1. Preset of data base management of new and repeated jobs.
2. Display of detected faults and press stop and record of machine stops duration.
3. Running and operating conditions display.
4. Monitoring of press speed, Production data, trends of dryer temperatures and press speed.



C.P.S. screen of Pelican Cerutti Press



Advantages of this link/connection:

1. Update job data is always available to all business areas.
2. Better job control & optimization of production process.
3. Automatically transfer production data, machine parameters and other important data to ERP system

Our Lamination Section

Additional Setup



- 1) SUPER COMBI 5000 (Solvent base and water base)
- 2) SUPER SIMPLEX (Solvent less)



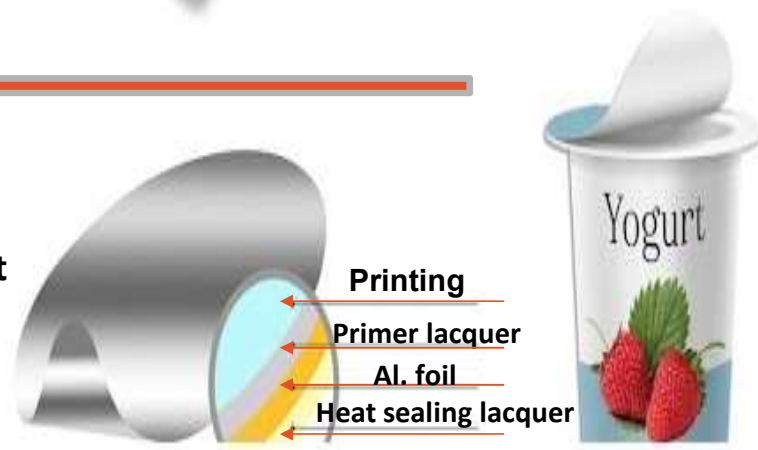
- 3) SUDDHA Laminator

1. Water base Applications

- Cold seal
- Hsl coating and lacquer coating
- Paper foil lamination with HSL
- Adhesive laminate without use organic solvent
- White adhesive used minimise to white ink

Products

Mouth freshener, Chocolate, lidding stock for ice cream cup, etc.



Coated Al. foil



Paper + foil + HSL

2. Registered Cold seal

- Cold seal trolley with fast drying capacity, high efficiency air nozzles with Max. 150°C drying temp.

With high efficiency of exhaust blower which maintain balance between inlet and exhaust air.

Products

chocolate & Band Aid.



Registered Cold seal area



Infrared Drying System

- IR Lamp are basically used in water base application.
- Improves system's moisture **evaporation** rate compare to hot air

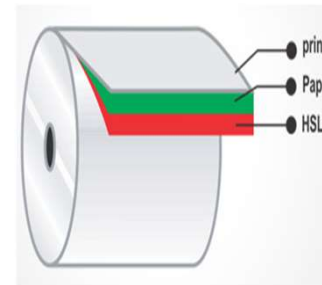
Products

Soap wrappers: (printed pet + paper)

Mouth Freshener: (paper + Al.foil + HSL)

Ice cream cone: (paper + al.foil + hsl)

Medical application



Infrared lamp



Max tension (550N) for Thermo forming lamination

Major use of thermo forming laminates in pharmaceutical, chocolate and oil product

Products

Kinder joy,

Distilled water etc.



Wide range of product

Wide range of products such as
Barrier film laminates(3 & 5 Layer film) with Al foil,
BOPA, BOPP, Pet, PP, Alox, CPP.

Different type of coating- HSL, Cold Seal,
barrier Al.Foil, BOPA, BOPP, PET, PP, Alox, CPP,

Products

- ✓ Oil 25ml,50ml,100ml, to 1000ml

Printed BOPA (Nylon) + Poly

- ✓ Ketchup, jam, sauce, hair die

Printed PET +Al foil +BOPA +Poly

- ✓ Milk product (powder type)

printed PET +Met PET +Poly

Ice cream and pan masala

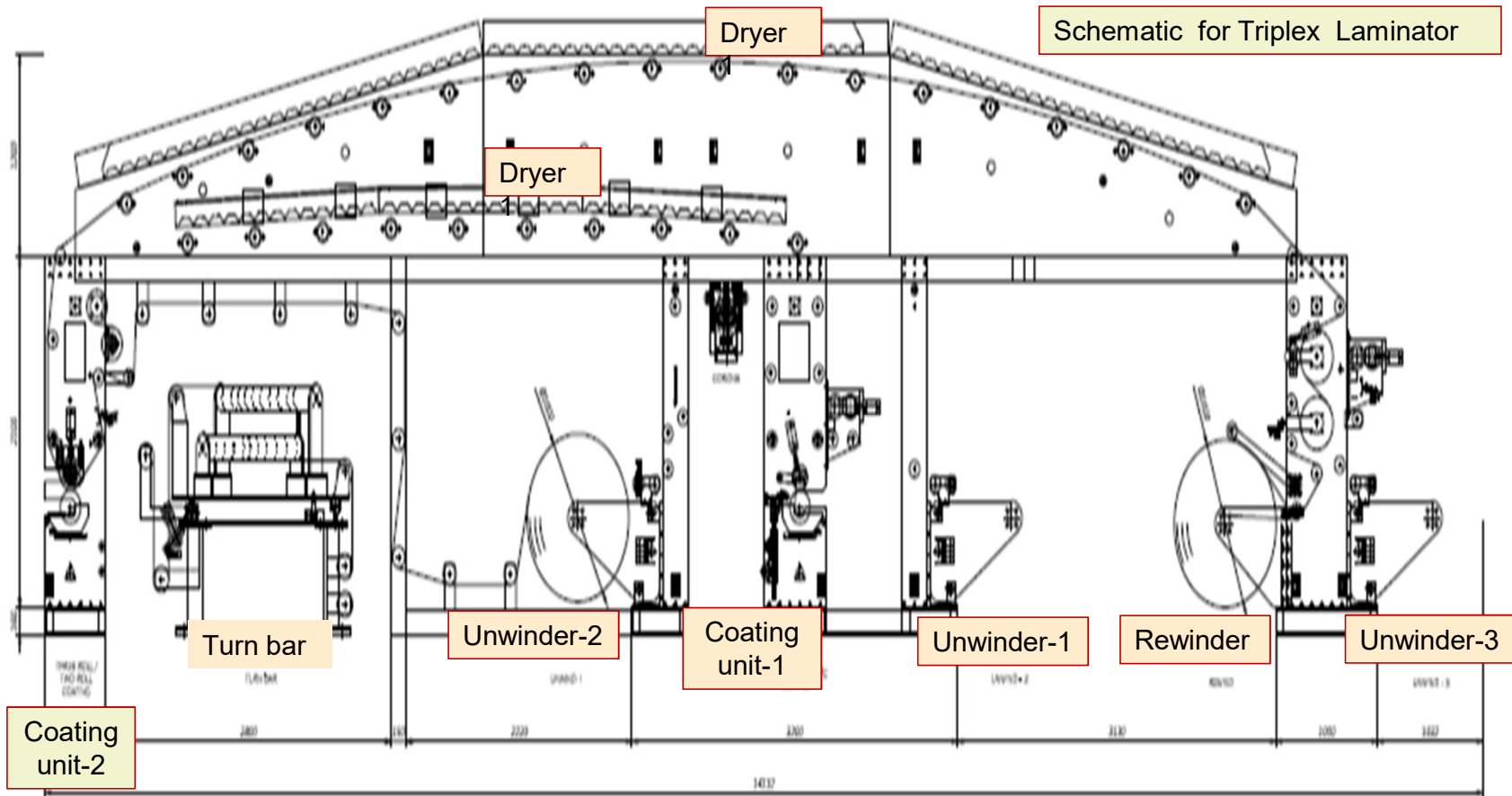
printed Paper +Al foil + HSL.



TRIPLEX LAMINATOR: Make - Suddha Machines

Features-

- Registered Cold seal
- Heat seal lacquer coating
- UV curing
- Two process in single pass.
- Both side Registered coating in single pass
- Double coating in one side.



Both side register by 13 digital synchronous **servo motors** and drives.

Wet lamination

- Wet lamination is used to produce **paper-aluminium foil laminate**,
Bopp-paper laminates
- **Inexpensive adhesive**
- **No organic solvent retention.**

Products

- **Gum wrap**
- **Mouth freshener,**
- **Choco wrap,**
- **Tobacco.**



Paper + Al. foil gum wrap by wet lamination

Double coating and Double Register

- Heat seal lacquer and UV cured
- Release coating and Register Cold seal
- Registered laminate in 3ply structure
- Dry lamination with Register Cold seal
- Registered coating both side (surface and revers) as well as same side in single pass



UV cured logo

SUPER SIMPLEX (SL)

High Speed Solvent less Lamination machine

Specifications-

- Maximum web width 1330 mm
- Maximum core with 1340 mm
- Maximum coated web with 1315 mm
- Maximum line speed 450 m/min
- Maximum reel diameter 1000 mm
- Maximum taper tension up to 60%
- Maximum web tension unwinder 40kg (400N) and
rewinder 50kg (500N)
- Max reel weight 1000 kg
- Chilling roller after laminating nip
- Corona treater and Static eliminator



Wide range of application

Range of Products-

- **Biscuit wrapper**
(Bopp+MetBopp)
- **Snacks wrapper**
(Bopp+met pet+poly)
- **Shampoo and conditioner**
(Bopp+met pet +poly)
- **Chocolate and cake**
(Pet+met cpp)



Extrusion Lamination Process:-

- Primary unwind → Infeed Unit → (corona treatment) → AC coating → Dryer → Co-extrusion ← (Corona Treatment ← Join with Secondary unwind) → Trimming → outfeed → Powderspray → Rewind



Co extrusion

- A Extruder type HL-80-P :Material standard dual alloy SACMI top of the screw thread plating titanium alloy.

We can run Co-polymer only in Ext A

- B Extruder type HL-80-p Material :SS

Oscillating T-die:-

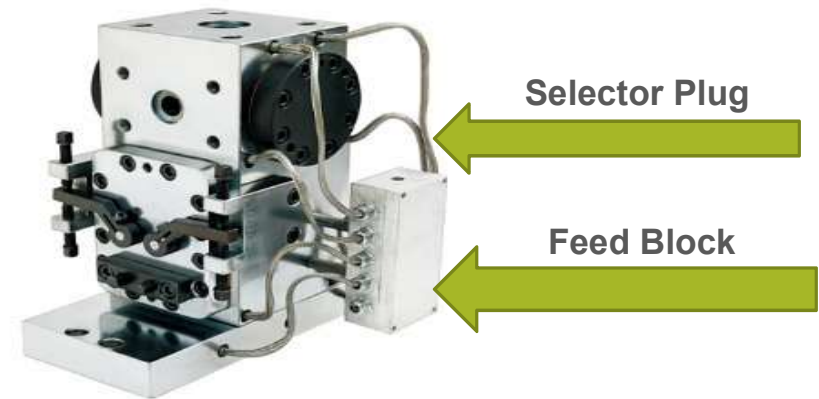
Advantage of Oscillating T-die system of flat production roll surface and no gauge band.



Beta –Ray thickness gauging system
High performance thickness
measurement system

Selector Plug

- We can select the layer of acid co-polymer foil side and other side
- Selector plug A/A/B, B/B/A, A/B/A ,B/A/B



Applications Laminate structure

- Lami Tube laminate
- Contraceptive
- Chips Biscuit
- Coffee ,butter ,Nuts, Tea
- ORS, ENO,
- Milk powder
- Lidding film

□ Shampoo, Sauce, coffee, structure:-

➤ $8\mu\text{pet} + 8\mu\text{Ext PE} + 6.5\mu\text{ foil} + 12\mu\text{ Ext PE} + 25\mu\text{ to }120\mu\text{ poly}$

□ Lami tube structure(12/250)w:-

➤ $50\mu\text{Npoly} + 34\mu\text{Ext(N)} + 12\mu\text{foil} + 34\mu\text{Ext(N)} + 120\mu\text{poly(w)}$

□ Contraceptive Structure:-

12Ptd

Pet/mica/ 18gsmextWPE / $9\mu\text{Alfoil}$ /mica-
1164/ 25GsmExt



Durex Assortment



Chips structure

➤ 12 μ Bopp+10gsm Ext+10μ Metpet+19μPoly

➤ 15μBopp+12gsmExt+12μMetpet+21μPolyN

Ext

ENO pet base laminate

12μPtd Pet/mica131X/18gsm Ext/9μ Alfoil/38gsmExt

Tang 500 g foil base

12μPtd

Pet/mica/15gsmExtWPE/6.3μAlfoil/20gsmExtPE/52μpoly GP(untreated)

Alkem-50

50Gsm paper/17gsmExtPE/9μ Alfoil/37.5gsm Ext



Applications 1



Lami tube



Coffee 3 in 1



Applications



Condom packaging

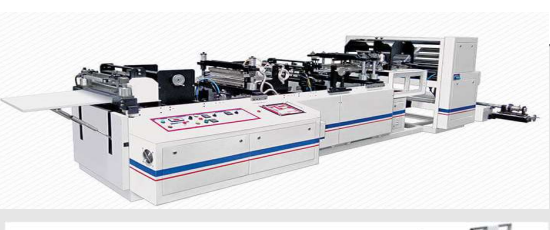


Ready to eat snacks

Durex Assortment



Our Upcoming Pouching Machines

S.No	Machine	Visual	S.No.	Machine	Visual
1	WIN 305 Single Transverse		5	VEGA 285	
2	WIN 305 Double Transverse		6	VEGA 410	
3	WIN 400		7	VEGA Plus 610	
4	WIN 500		8	Flat Bottom VEGA Plus 610	

Types of Pouches we will be able to Produce - Slide 1

S. No.	Pouch Type	Visual	S. No.	Pouch Type	Visual
1	Center Seal Pouch		4	5 Side Seal Pouch (Quadra seal)	
2	Lap Seal Pouch		5	Stand Up with Spout	
3	Stand Up Pouch with Zipper		6	Vacuum Pouch	

Type of Pouches we will be able to Produce – Slide 2

S. No.	Pouch Type	Visual	S. No.	Pouch Type	Visual
7	Side Gusset Pouch		10	Registered Inserted Gusset Pouch	
8	Perforation Pouch		11	Shape Pouch	
9	Flat Bottom Pouch		12	Pocket Zipper pouch with Dog Bone Punch	

Key Features of BMS and Automation System

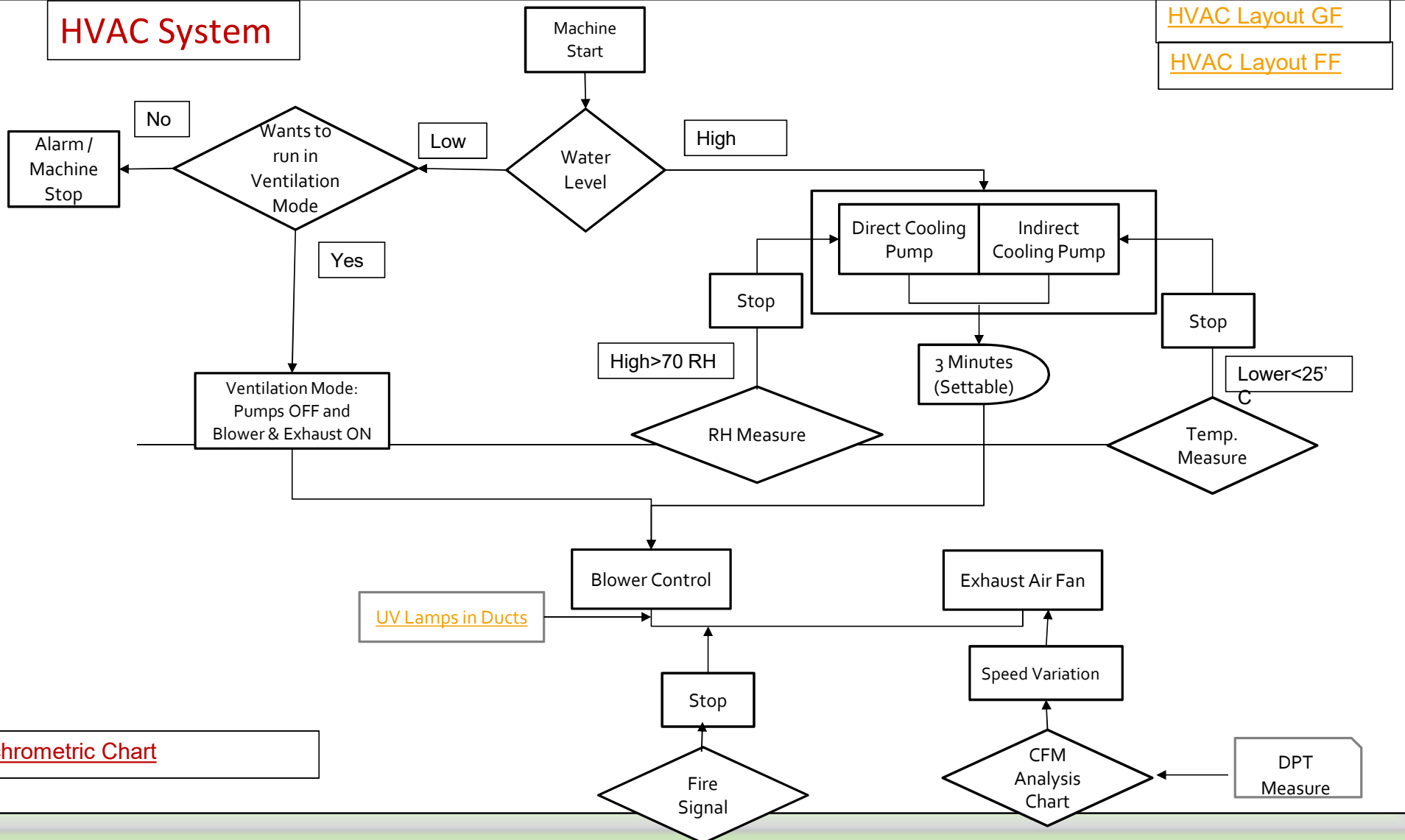
BMS system integrated with below Individual Systems

- HVAC system
- Fire Alarm system
- Energy Monitoring System
- Fire fighting System
- CCTV system
- Access control System
- Passenger cum Goods lift
- Automation System for Utility water line
- Automation System for Solvent Line

HVAC System

[HVAC Layout GF](#)

[HVAC Layout FF](#)



[Psychrometric Chart](#)

Printing Area HVAC system control

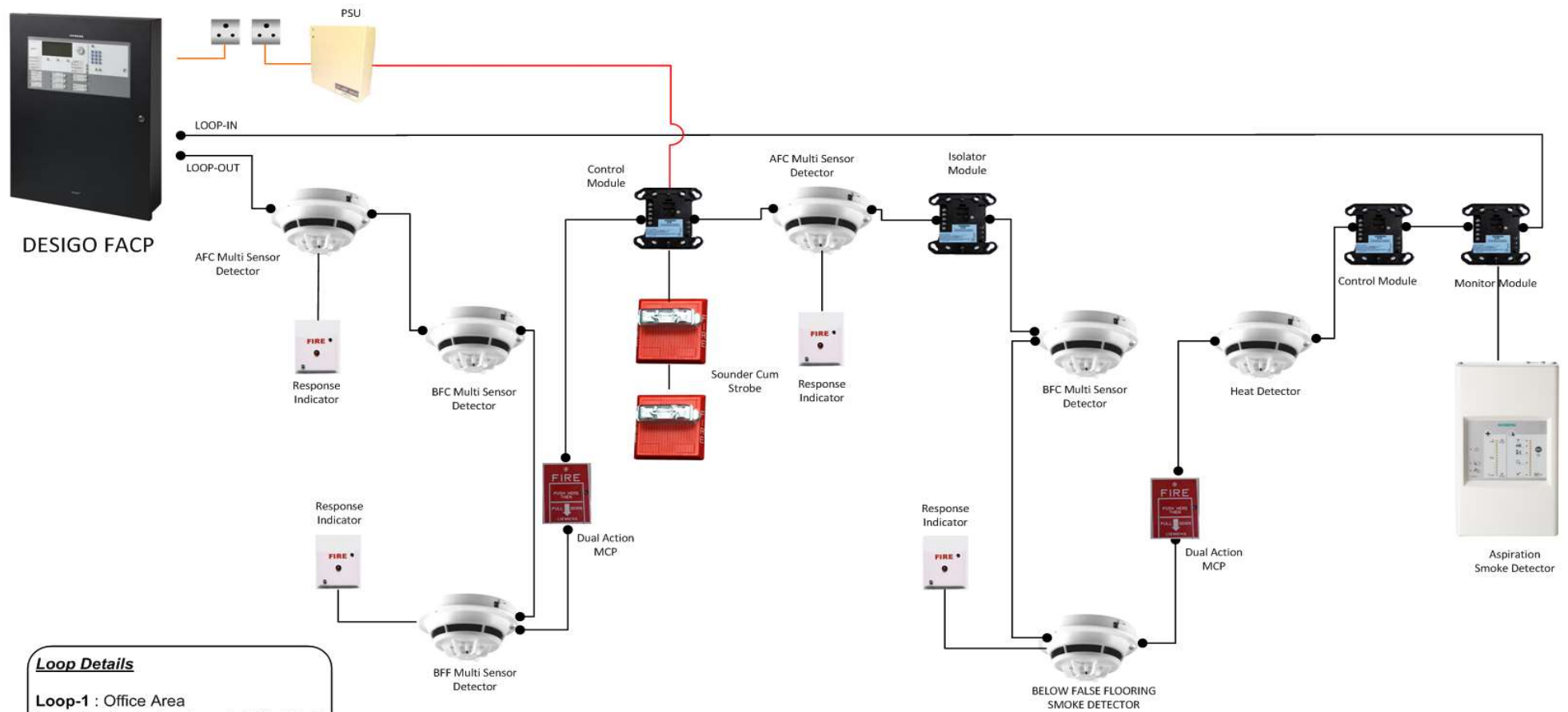
[HVAC Layout GF](#)

[HVAC Layout FF](#)

CFM Analysis Chart

Drive Speed Variation	Number of HVAC	ACPH	No. of Machines
50	1	6	1
100	1	10	2
50	2	15	3
100	2	20	4

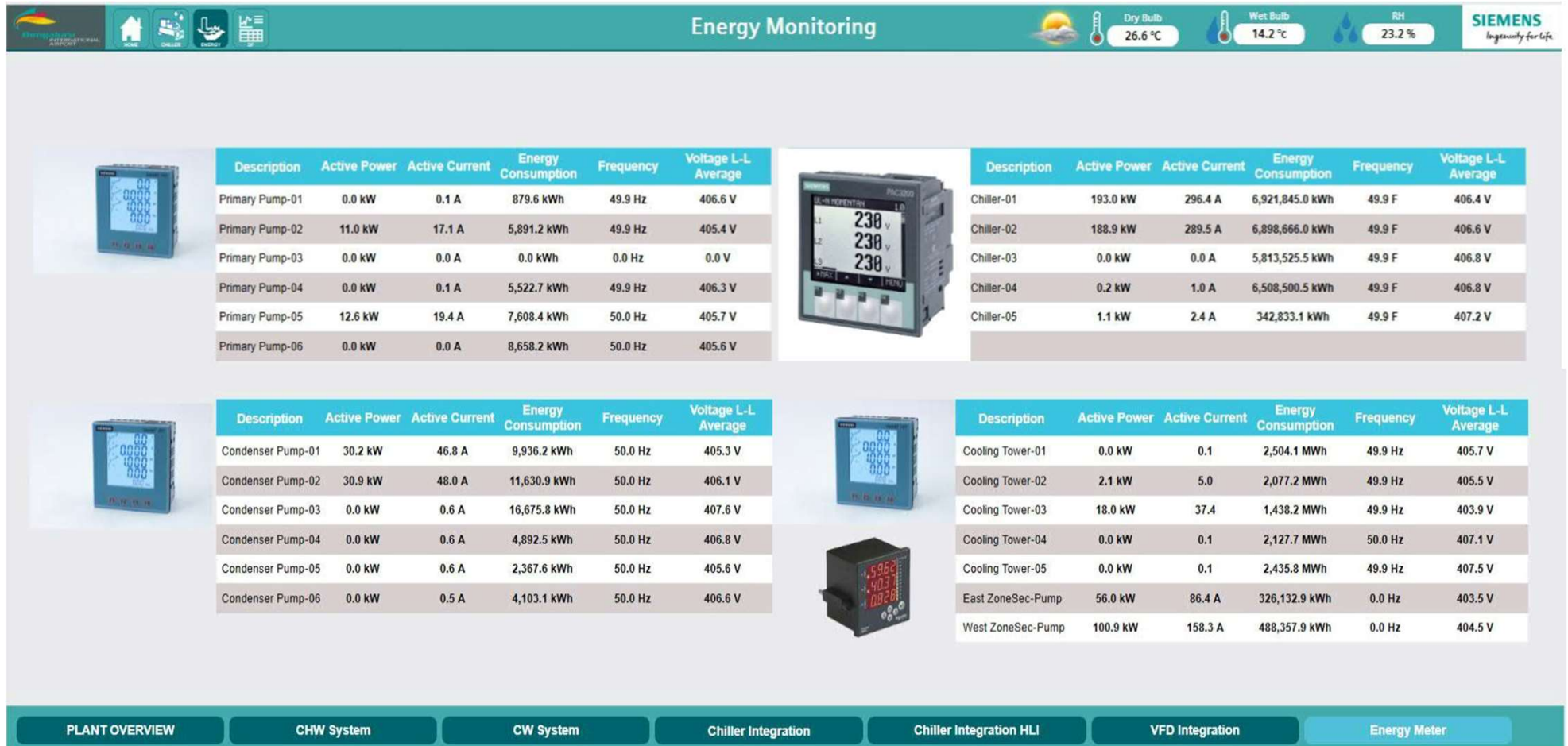
Typical System Diagram of Fire Alarm System



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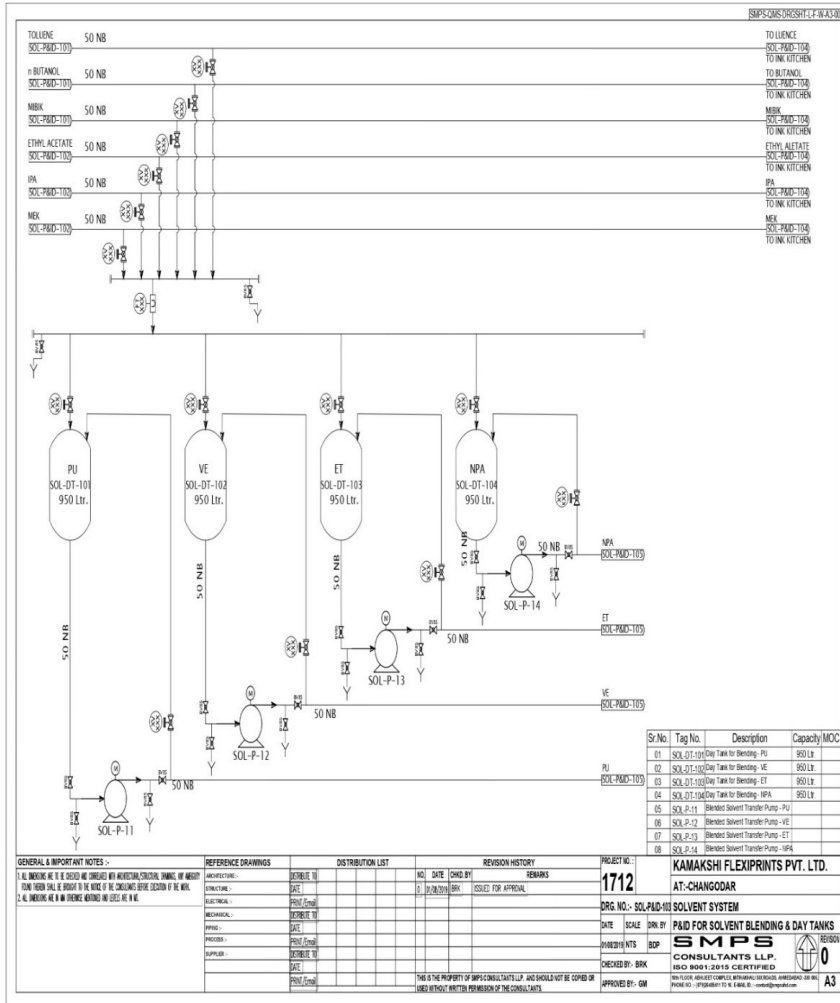
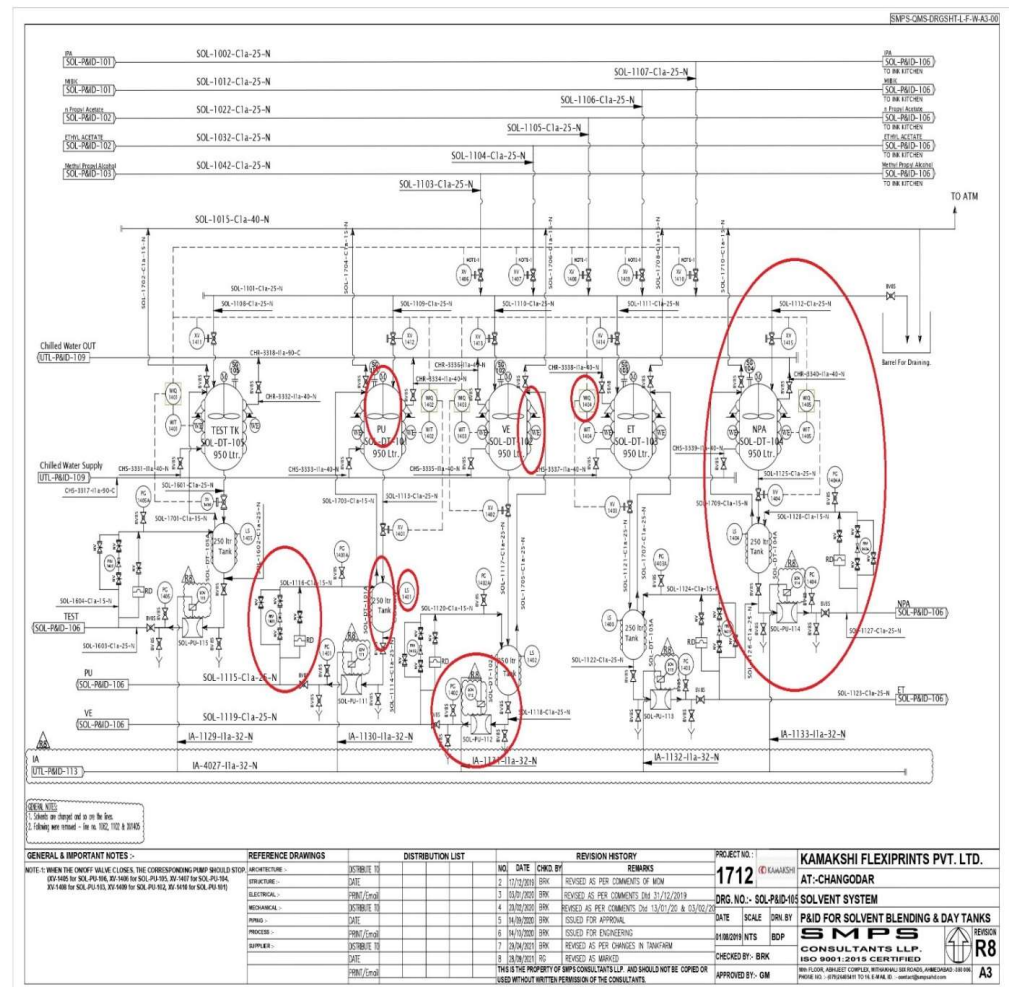
Energy Monitoring System in Plant

Total 42 nos of MFM



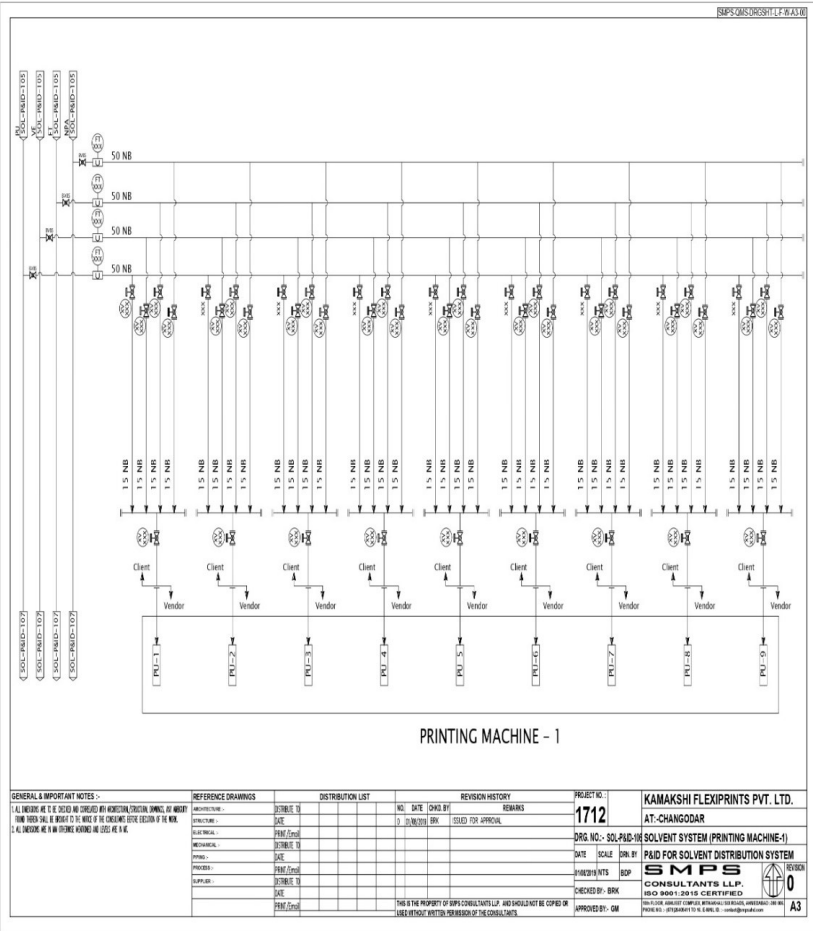
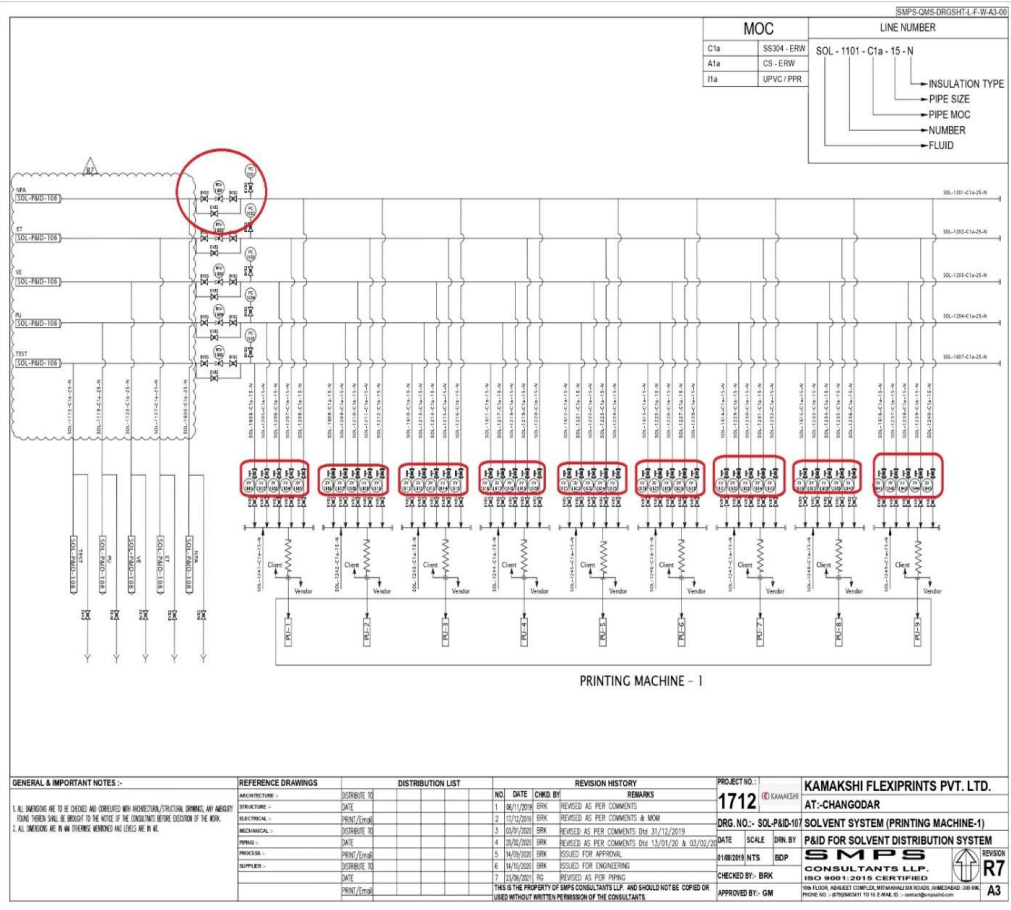
Instruments List with Signals

Day Storage tanks Automation System

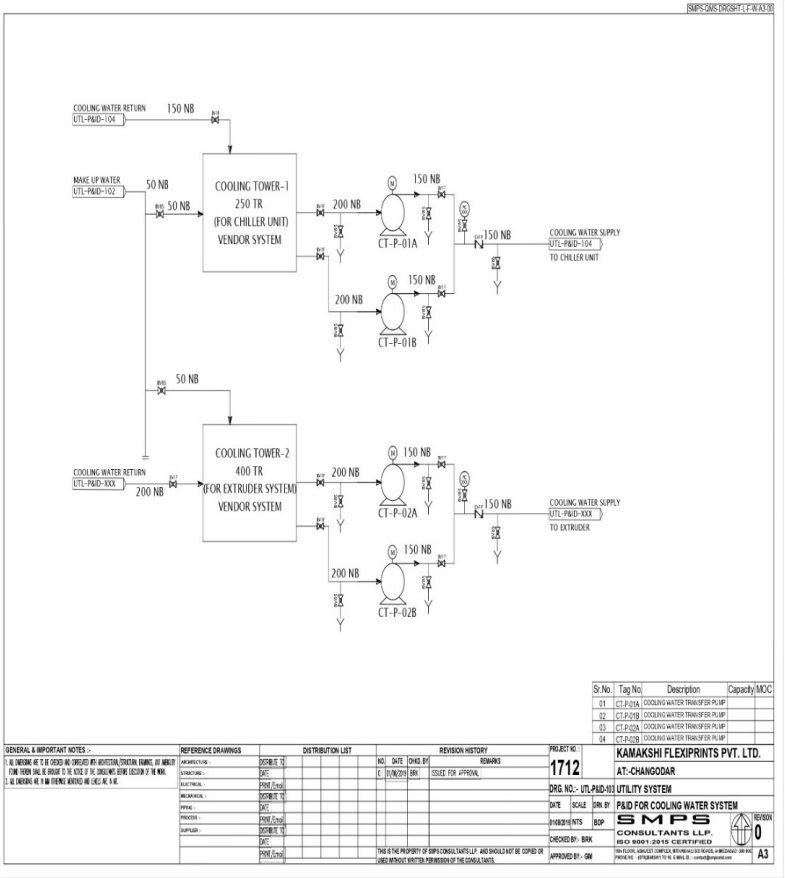
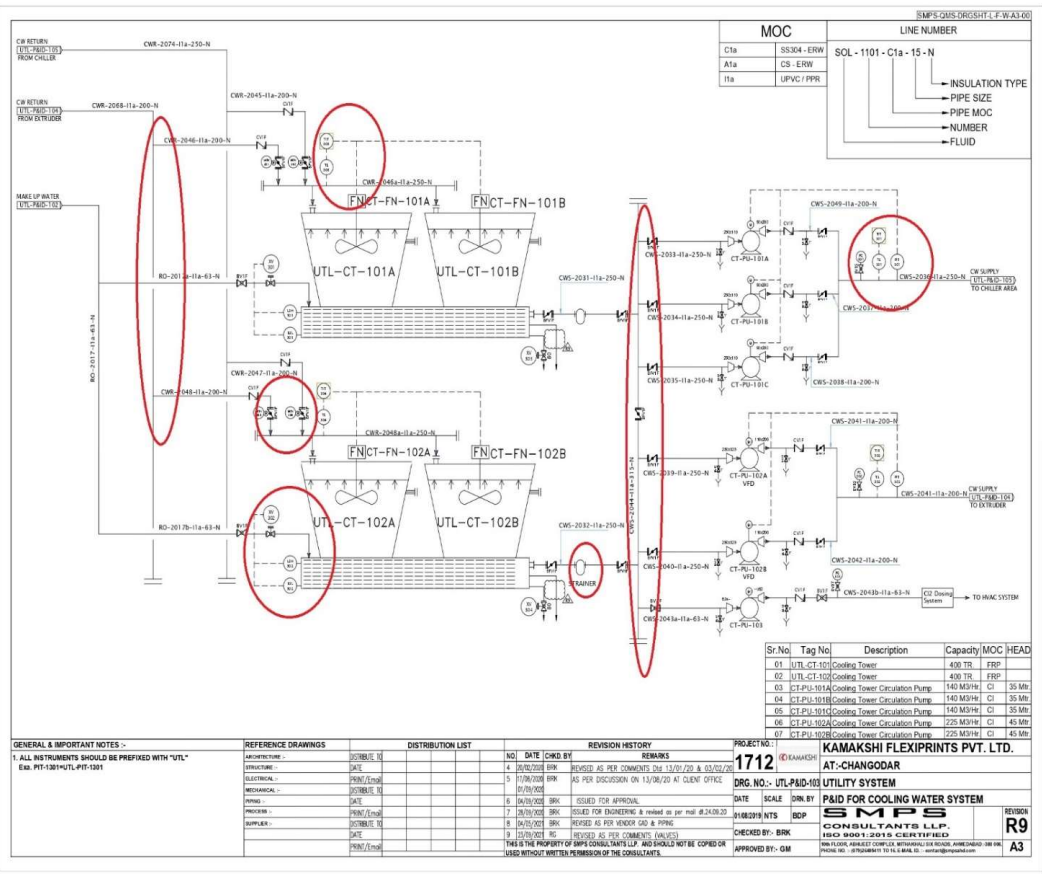


Printing Automation System

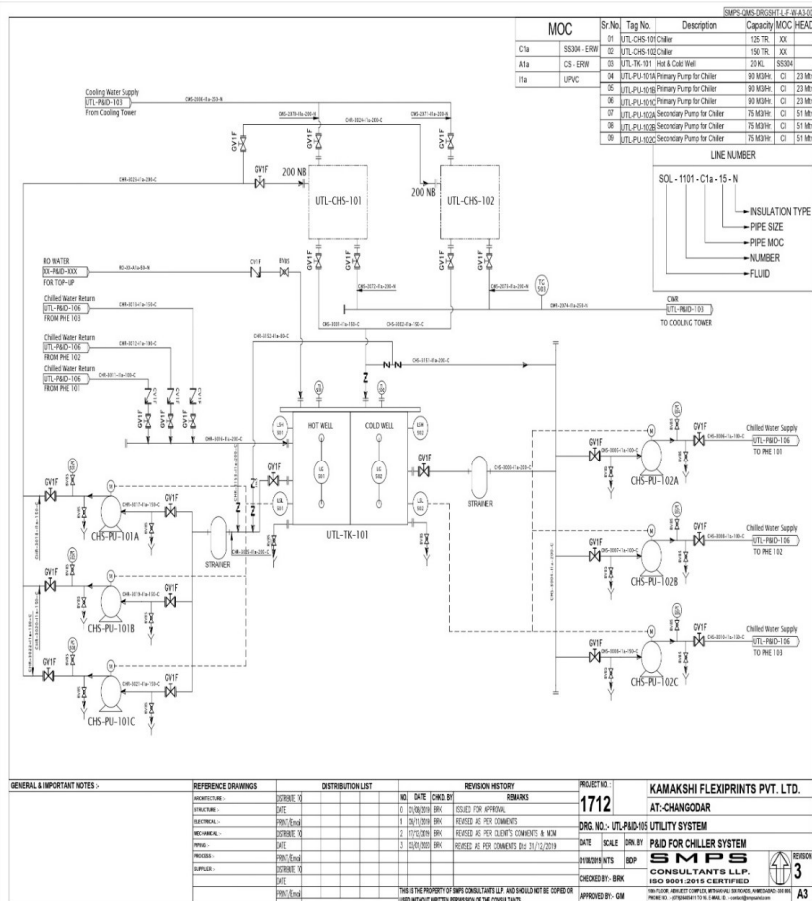
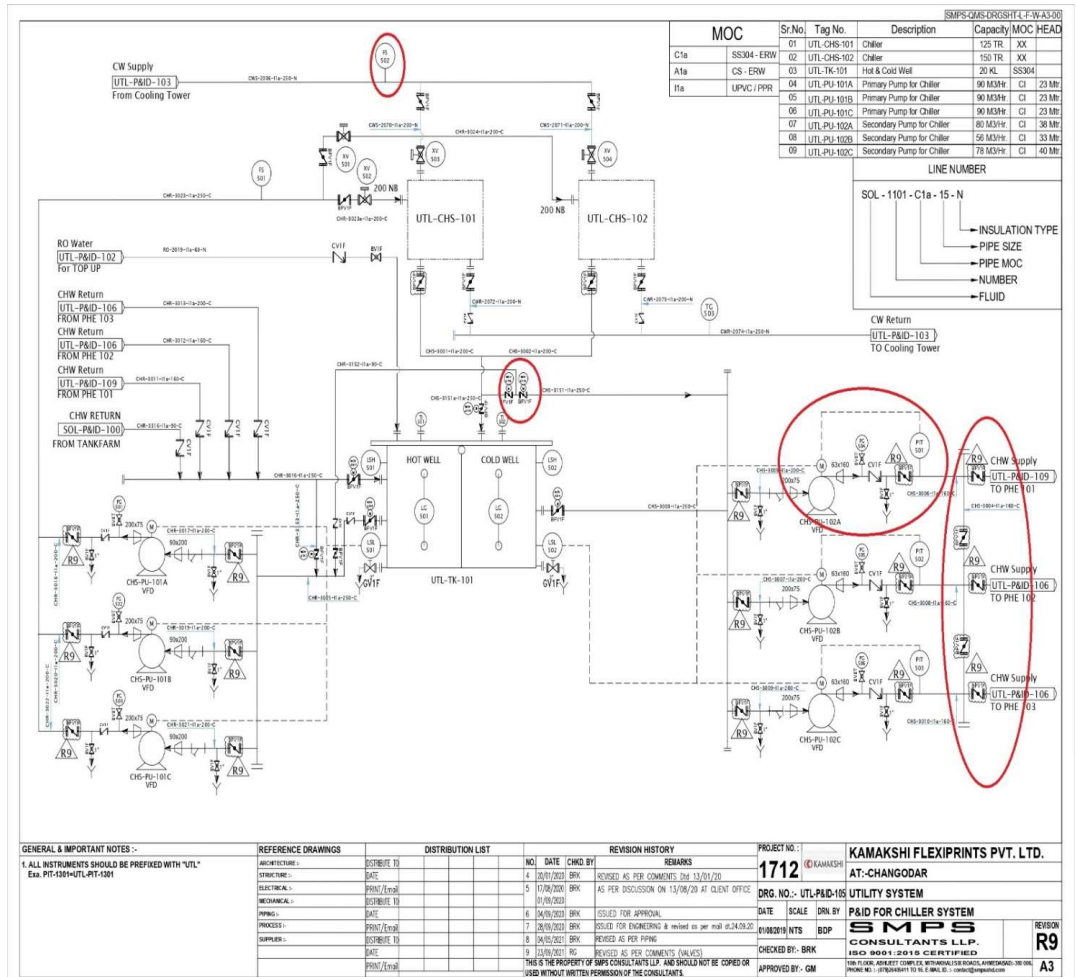
Instruments List with Signals



Cooling Tower automation System



Chiller line Automation system



Thank You...

