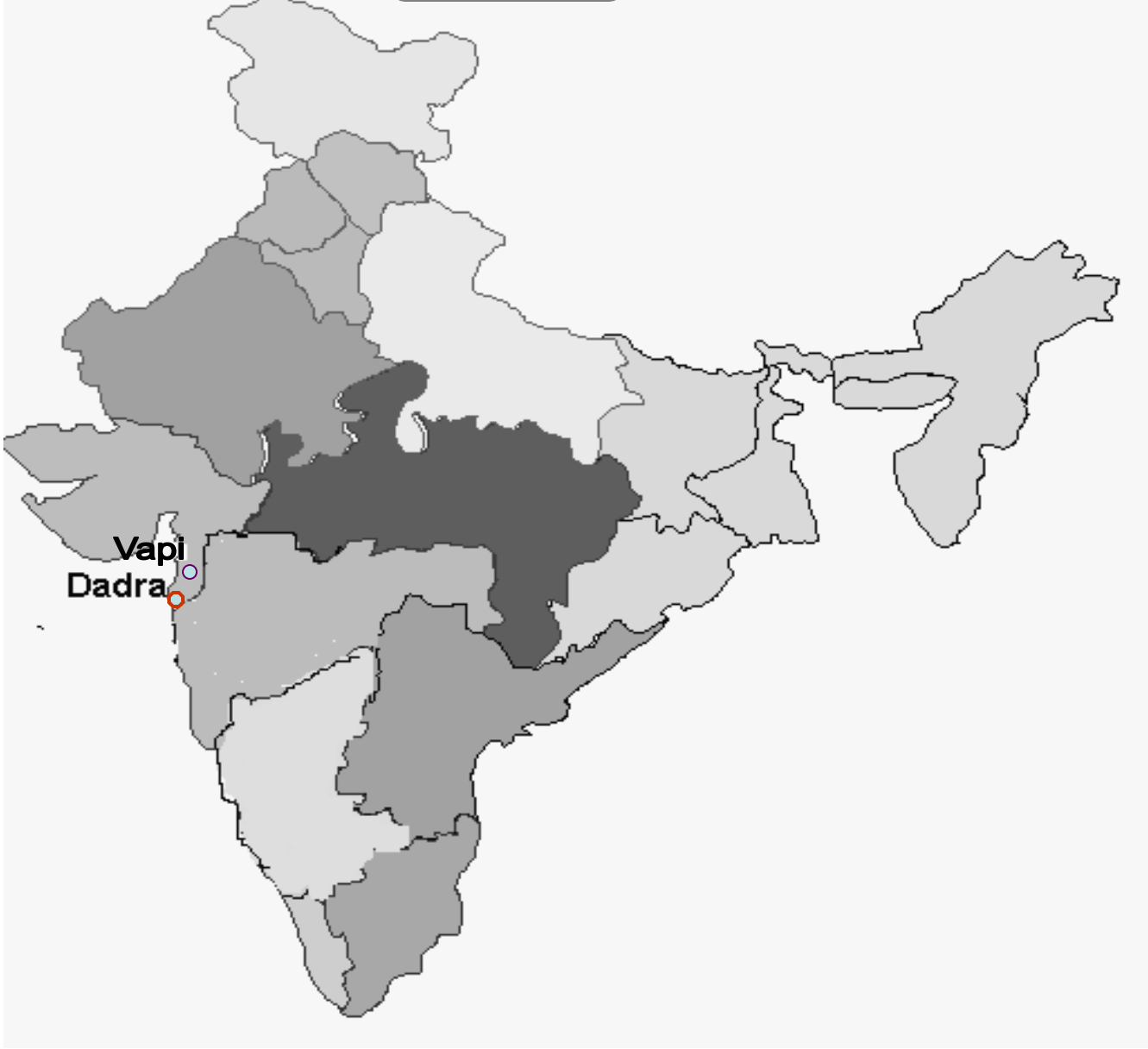


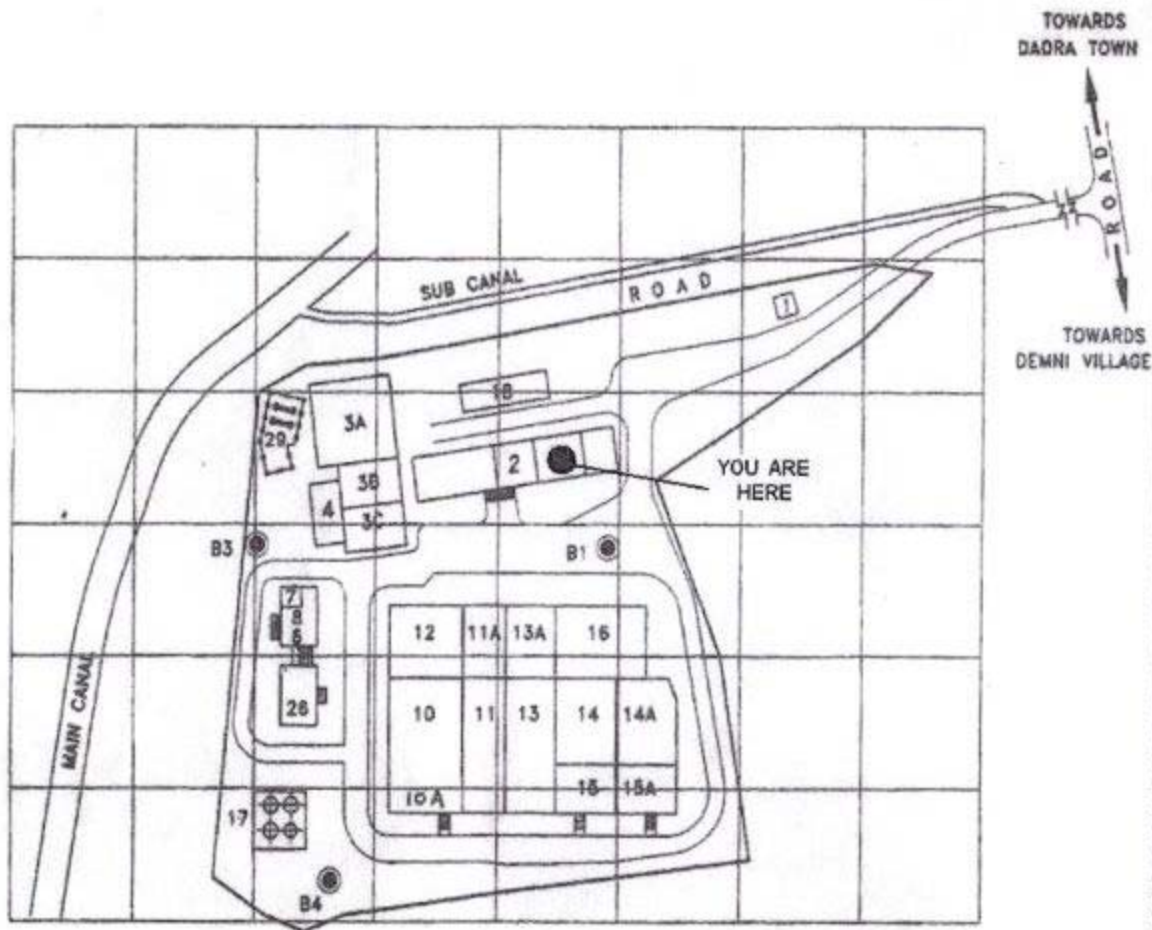
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WELCOME  
TO  
Sonachi Industries Ltd.  
DADRA

# SONACHHI

INDIA





LAVACHHA VILLAGE

LIST OF UNIT FACILITIES			
SR. NO.	DESCRIPTION OF UNIT/FACILITIES	SIZE IN METER	REMARKS
1	SECURITY CABIN (PORTA CABIN)	3.75 x 4	
2	CAFETAREA, QC LAB, WORKSHOP GENERAL STORE & CHANGE ROOM	50 x 10	
3A	FIRE WATER TANK (OPEN) TOUGHT	20 x 20	EXISTING
3B	FIRE WATER TANK (OPEN) HYDRANT	15 x 10	EXISTING
3C	FIRE WATER TANK (OPEN) SPRINKLER	15 x 10	EXISTING
4	PUMP HOUSE	7.5 x 14	EXISTING
6	SWITCH ROOM	13 x 9	
7	TRANSFORMER	7.5 x 14	
8	D.O. ROOM	7.5 x 14	
10	PLANT FILLING SECTION (INSECTICIDE)	7.5 x 14	EXISTING
10A	BLENDING SECTION (INSECTICIDE)	6 x 13.5	EXISTING
11	WARE HOUSE	10.5 x 31	EXISTING
11A	WARE HOUSE	10.5 x 16.5	
12	WARE HOUSE	16.5 x 18	
13A	WARE HOUSE	12.5 x 16.5	
13	WARE HOUSE	12.5 x 31	
14	HARBCIDE PLANT (STOMP) FILLING SECTION	15 x 20	
14A	HARBCIDE PLANT (PURSUIT) FILLING SECTION	15 x 20	
15	BLENDING SECTION (STOMP)	11 x 15	
15A	BLENDING SECTION (PURSUIT)	11 x 15	
16	WARE HOUSE	16.5 x 22.5	
17	TANK FARM	25.5 x 27.5	
18	EFFLUENT TREATMENT PLANT	21 x 6	
26	UTILITY & CONTROL ROOM	9 x 15	
29	ELEC. FOUR POLE STRUCTURE WITH FUTURE K105K	12 x 7.5	EXISTING
B1, B3 & B4	BOREWELL	4.2 x 2	EXISTING

**SONACHI INDUSTRIES LIMITED**  
**DADRA**

## Safety Induction - Alarm System

- Fire / Emergency Indicators: Smoke Detector / Manual Call Points.
- Sound Alarm: Hooters provided in all 11 Zones.
- Alarm Panel: Main Panel (indicating emergency zone) in pump house & Repeater Alarm panel in Security Cabin.
- Manual switch for emergency siren is located in Pump House. The siren starts automatically whenever the main sprinkler pump starts.
- Manual siren: Provided at Security Cabin. (Upto 10 seconds shift timing & greater than 10 seconds to indicate emergency).
- Assembly Point: The area between the Security Cabin and the car park is demarcated as the assembly point.
- Pump House / Siren Check: Every Monday at 10.00 a.m. (Operation: First 2 seconds - Stop - 15 seconds).

## OVERVIEW

- Situated in Union Territory of Dadra & Nagar Haveli, @ 185 Kms. North of Mumbai, India.
- Nearest Railway station is Vapi (10 KM).
- Well connected from Mumbai - Delhi National Highway & Rail route.
- Design, Engineering & Construction by multinational consultants (Jacobs Humphery & Glasgow & Kvaerner Power Gas India Limited).
- State of The Art Formulation facility spread over an area of 15,600 Sqm.  
Additional land of 7,300 Sqm acquired for future expansions.
- Total investment 6.1 M\$.
- One Insecticide Plant & two Herbicide plants.
- Insecticide plant commissioned in March 1998 – Phase 1
- Two Herbicide Plants & upgradation of Insecticide Plant in November 1999 – Phase 2..

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## Manufacturing Capabilities

- One Insecticide / Thinner Plant & two Herbicides Plants.( Herbicide plant III consist separate facility for coolant manufacturing)
- Highly automated PLC based Plants.
- Equipped for Liquid / Liquid & Powder / Liquid Formulations.
- Water based Herbicides, Solvent based Herbicides, Insecticides & Fungicides Formulations.
- Plant capacities : 8 KL / Shift / Plant.
- Combined annual capacity : 7200 KL (One shift basis).
- High standard of Health, Safety & Environment.

## PLANT FEATURES

A

- We have one Insecticide / Fungicide & two Herbicide Plants.
- Facility of Liquid / Liquid & Powder / Liquid formulation.
- Two SS 304 Blenders each for Insecticide / Fungicide & Herbicide III plant & one for Herbicide II plant.
- One SS 304 holding vessel each for Insecticide / Fungicide & Herbicide III Plant & two for Herbicide II plant.
- Spiral filters of SS 304 (3 Nos.) filter draining under inert atmosphere for Insecticide / Fungicide plant.
- Bag filters & cartridge filters of SS 304 (2 Nos. each) for Herbicide plant (Stomp).
- Sparkler filters & cartridge filters of SS 304 (2 Nos. each) for Herbicide plant (Pursuit).
- Total operations are PLC based except manual additions.



## PLANT FEATURES

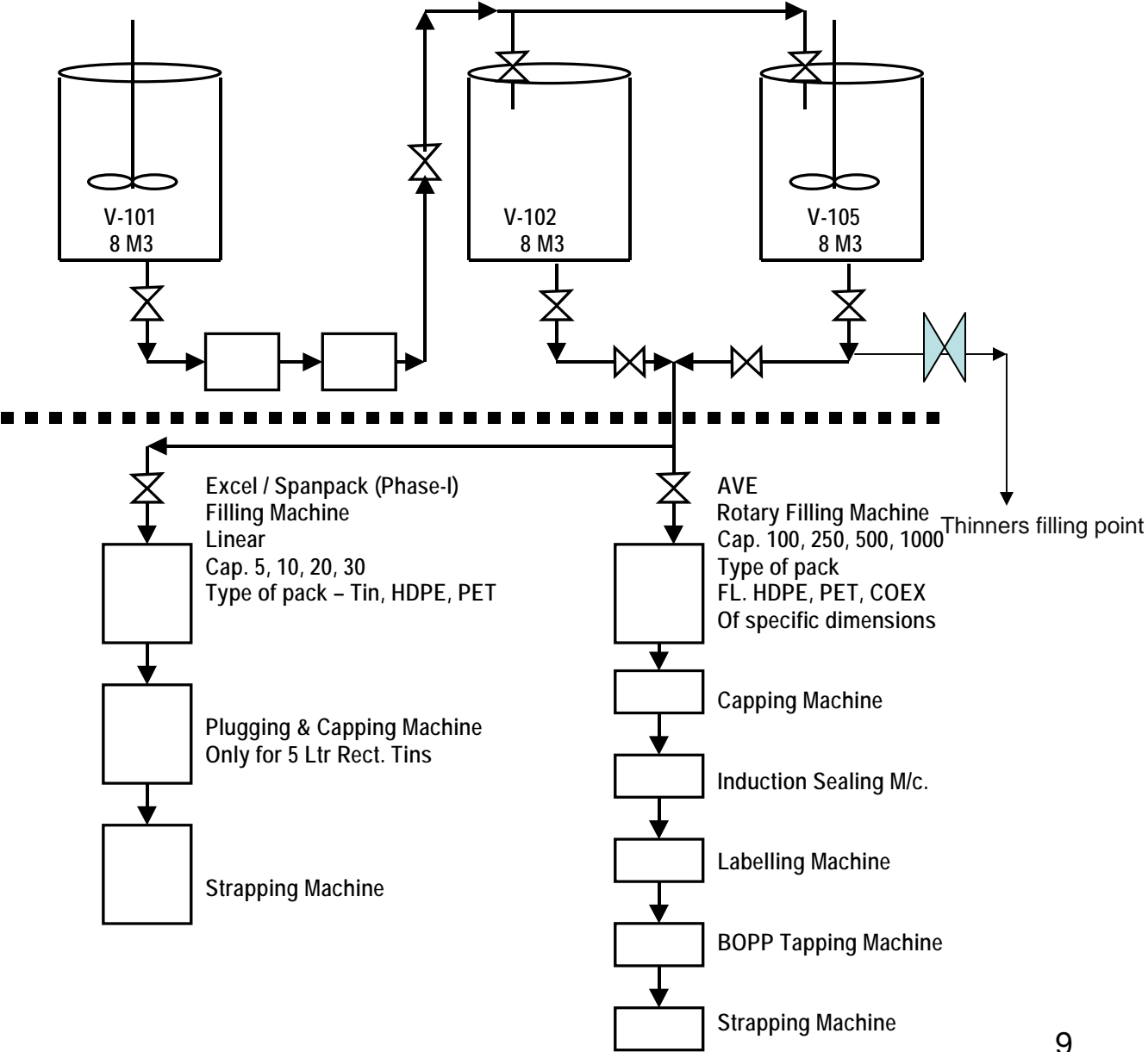
B

- Nitrogen blanketing arrangement in blender to avoid dust explosion.
- Blender & hold vessels provided with rupture disc and breather valves.
- Rupture disc for blenders are protected from powder deposit by means of Nitrogen purging.
- Secondary containment is provided to blending area.
- Fully automated imported Rotary Filling Line (one for each plant) with Nitrogen Purging for PET / HDPE bottles (100 ML to 1 Ltr). Rated capacity 2500 bottles per hour.
- Fully automated imported Linear Filling Line (one each for Herbicide plants) for HDPE containers (5 Ltr to 20 Ltr). Rated capacity 1600 containers per hour.
- Semi automatic Indian Filling Line for 5 Ltr to 30 Ltr containers for Insecticide / Fungicide plant.
- Semi automatic Linear type Indian Filling Line for tin containers (500 ML, 1 Ltr & 5 Ltr) for Herbicide plant (Stomp).



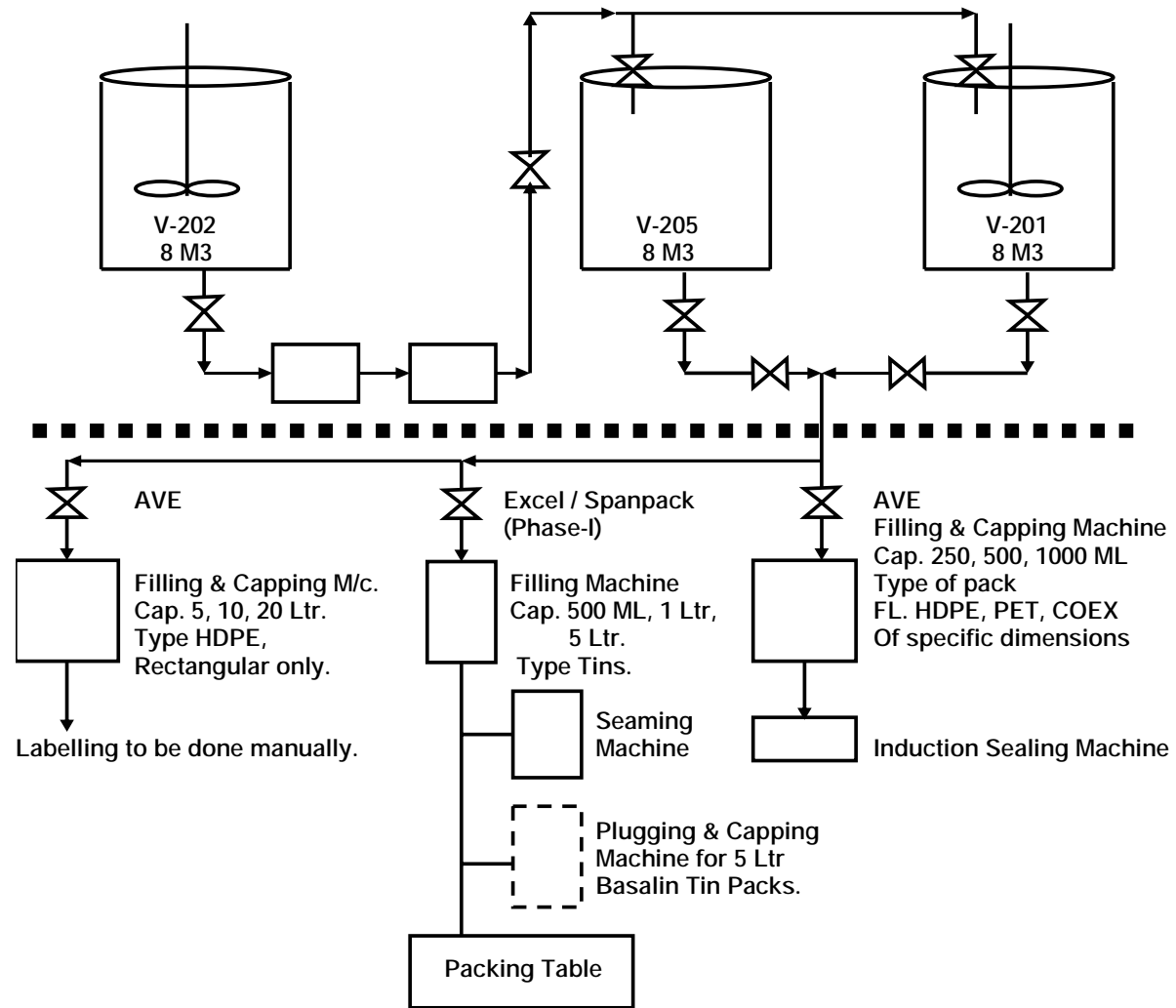
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## Plant-I (Insecticide)

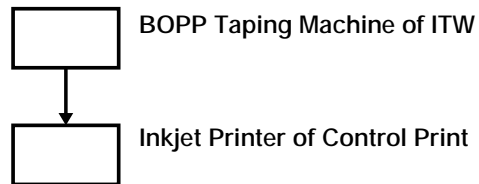


# SONACHI

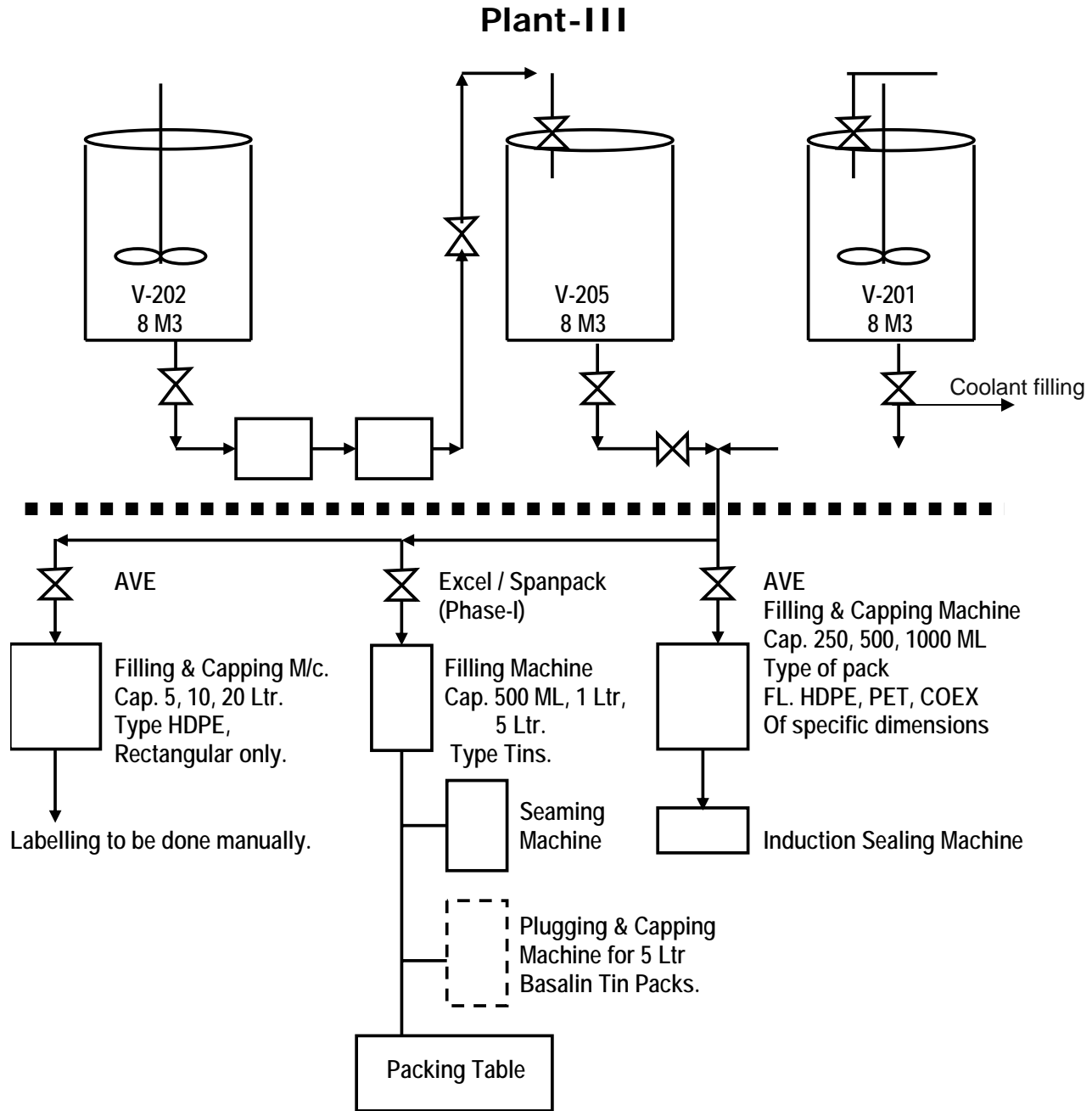
## Plant-II (Herbicide)



### Available Machines for use in any line



# SONACHHI



## Quality Assurance

### Activities of QA

- Analysis of RM / PM / Finished Goods.
- Monitoring quality during formulation & packing.

### Additional Activities

- Formulation development with an aim to reduce the cost.
- Support to Technical Services Department for field trials.
- Generation of Chemistry Data for Registration of Products.

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## Quality Assurance

### SET UP

- Instruments Lab.
- Chemical Analysis Lab.
- Packaging Testing Lab.

We are well equipped with sophisticated instruments such as:

- Gas Liquid Chromatograph - Varian 3800.
- High Pressure Liquid Chromatograph - Shimadzu 10 AVP, 20 AVP.
- UV Vis. Spectrometer - Shimadzu UV 1601 PC.
- Fourier Transform Infra Red Spectrometer - Shimadzu 8300.
- Karl Fisher Apparatus - Labindia.
- Analytical Balance - Mettler AG 204.
- UPS - Tata Liebert CC 400.
- Fume Chambers.

## SAFETY



- Fire hydrant system with pump capacity 171 M3 / Hr. – TAC approved.
- Water reservoir for fire hydrant 350 M3.
- 25 Hydrants.
- Sprinkler system with pump capacity of 273 M3 / Hr.
- Water reservoir for Sprinklers - 550 M3.
- In line Rack Sprinkler for Warehouse. No. of Sprinklers - 979.
- Fire Detection and Alarm System. No. of Zones - 11.
- Fire Fighting System designed as per NFPA standard.

## SAFETY

B

- Process area protected with Foam system.
- Tank farm protected with Medium Velocity Sprinkler & Foam system.
- No. of Eye wash fountain and Showers - 13.
- Company trained Fire Fighters - 7.
- All equipment in blending sections are flameproof and meet the Class-I Zone-II Classification.
- No. of Manual Call Points - 24.
- No. of Smoke / Heat Detectors - 71.



## ENVIRONMENT

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- State of Art Auger, imported from Italy for emptying drums (First in India).
- No hot water bath.
- Dust Extraction System with bag filters & absolute filters.
- Fume Extraction System with carbon bed (7.0 MT carbon capacity).
- Forced Ventilation & Exhaust System for Process Area & Warehouse.
- Zero Effluent Generation in Process Area.
- Secondary containment to all formulation and packing plants.
- Zero discharge plants.

## ENVIRONMENT

- Provision for first five minute rain water collection (Contaminated).
- 550 cum. fought fire water collection capacity.
- Imported bottle rinsing machine.
- Drum compactor.
- Waste baler.
- WWTP (PLC based) capacity 18 cum / shift. (Domestic + Industrial).
- Stomp plant has 6 mm epoxy floor coating for impermeable floor.

## UTILITIES

- De-ionized water from Reverse Osmosis Unit.  
Rated capacity 2 KL/Hr.
- Grid Power of 500 kVA (Connected Load - 732 kW).
- 250 kVA DG set available as back up power
- Water (domestic & process) source from bore wells (3 Nos.).
- Tank Farm with 172 KL of Class "B" Solvent storage facility.

## WAREHOUSE

- Ground + 4 storage system.
- Separate racks for raw material & packing material of Insecticide & Herbicide plants.
- Separate Warehouse for Insecticide & Herbicide finished goods.
- 1 loading / unloading bay with dock leveler.
- Forklift.
- Total capacity approximately 1600 pallets.
- Ergonomically designed material movement.

# S O N A C H I

## STRENGTHS

- Multi skilled staff – 16 Nos.
- Average age of employee - 34 years.
- Highly flexible & motivated young team.
- Quick response to the market.

## Management Team

- Dr.T.Tiwari- Group Chairman
- J B Tiwarii – Managing Director
- P B Tiwari- Director Logistics
- Laxmi J Tiwari- Director Finance

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## Management Team

- Vinay Pal Jain-Director Administration
- Thyagaraja Rallapalli Director Business Development
- S Dattar-Vice President-Operations
- Pramod Pandey - Site Incharge Vapi
- Dinesh Rathod –Site Incharge-Dadra



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**THANK YOU**