

# MAHAVIR MANUFACTURER



# Plant Capability

Equipment	Capacity	Nos.	Built Design
SS Reactor	3 KL	2 Synthesis area	-5 to 160 °C NMT3 KG Pressure 710 Vaccum
Hydrogenator	3 KL	1 Nos. Synthesis area	-5 to 160 °C NMT13 KG Pressure
SS Reactor	3 KL	1 Nos. (Clean Room)	-10 to 160 °C NMT3 KG Pressure 710 Vaccum
Glass Reactor	3 KL	1 Nos. (Clean Room)	-10 to 160 °C NMT2 KG Pressure 710 Vaccum
VTD	48 Tray	1 Nos.	–
VTD	48 Tray	1 Nos. (Clean Room)	–
RCVD	750 Kg	1 Nos. (Clean Room)	–
Centrifuge	-	3 Nos. (48', 36', 36')	-5 to 160 °C NMT3 KG Pressure
Sparkler Filter	-	2 Nos.	–
Sifter	-	2 Nos. (48' / 36' ) (Clean Room)	–
Pilot plant and R&D	Upto 200 Liter	1	Glass

# Utility and QC Instrument

Utility	Capacity	Nos.	Built Design
ETP	25 KLD	1	With UF and ATFD
Purified water system	1 KL per hour	1	-
AHU	ISO Class 8	3	-
Compress Air	-	1	-

## QC instrument

HPLC (waters)

Karl Fischer Titrator

Analytical Balance

pH Meter

UV Spectrophotometer

# Planning and Proposal

Phase	Pre Evaluation Phase	Evaluation Phase
Activity	<p>Outward examination of the chemistry and technology</p> <p>Collect general information</p> <p>Financial and commercial data</p> <p>Technical package analysis from the customer if available</p>	<p><b>Technical Evaluation:</b> Complexity of chemistry, stoichiometry process performance, raw material consumption, technology fitting, therapeutic equivalence and plant suitability, toxicological profile...</p> <p><b>Economical Evaluation:</b> Raw material supply chain investigation, lab and Kilolab, Pilot operation, Validation and commercial scale costs evaluation, investments and budgeting</p>
Duration	5 working days	10 Working Days
Deliverables	Formal communication to the customer of entry to next level of examination	<p>Detailed Project plan</p> <ul style="list-style-type: none"> <li>- Technical Presentation</li> <li>- Quotation</li> </ul>

# Project Initiation and R&D

- \* At the project Initiation meeting R&D generate a consolidate version of the project plan, re-defining activities, and a Project Chart intended to handle the different activities progression together with the customer.
- \* Basically the project chart collect the following flow of activities:
  - Process Mile stone
  - Brief of Analytical Development
  - Supplier of raw materials
  - Synthesis route / Flow
  - Supply chain definition etc.