



-----Transporting Your Growth-----

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Founder

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About Us



Harsh Patel



Vishal Bhalani

Why Vahiny ?

- MSME
- DIPP recognized
- Design and Manufactured in India
- Make in India - Class – I
(More than 90% Local Content)

Mission

- Automation
- Better Jobs



Vision

- Customer Must Feel Proud



Frequent Movement Items

- Blood specimens
- Blood cultures
- Swabs
- Urine samples
- Prescription, drugs,
- Medicines
- Test reports, forms
- Stamping on Docs and Bills
- Blood Bottles
- Glucose Bottles
- Small Surgical and Medical item



Internal Transport



Pathology/Biochemistry
/Microbiology



Pharmacy/
Store



Phlebotomy/
Emergency



ICU/Wards/
CSSD/OT

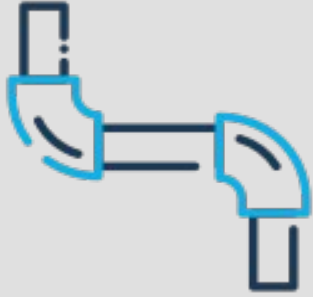


Reception
Mediclaim/Account



Blood Bank

Solution



Tubing



Pressure
Difference



Automation

- Tubes & Bends
- Carrier
- Stations
- Diverter
- Blower
- Software & Electronics

Features & Benefit

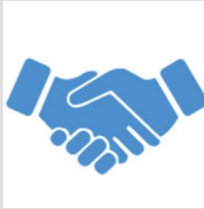


Local Spare



Availability

Reliability



Hygiene



Speed 4-7m/sec



Operating Cost

Productivity



Transparency



Design & Planning

Type

- 110mm : hospital < 150 beds & pathology lab
Weight : 1 Kg
Core-Cut Size : 6 Inch
Min Clear Space Below Beam : 6 Inch
- 160mm : hospital > 150 beds & blood bank
Weight : 2 Kg
Core-Cut Size : 8 Inch
Min Clear Space Below Beam : 10 Inch
- Speed: 4-6 meter/second



–	✓
–	✓
–	✓
–	

- Around 12-18 beds per station
- 10-14 station per Blower
- Control Room Space - 100sq feet * Blower Count
- Dedicated Internal Shaft For PTS (If PT Beam)

Innovation Analogy



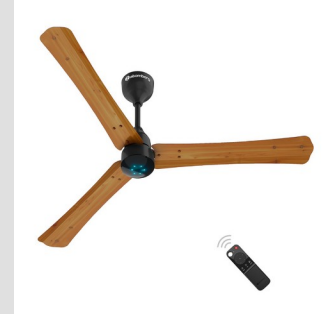
Fan
(2004)



VW Polo(Diesel)
(2004)



Shatabdi Express
(2004)



BLDC Fan
(2024)

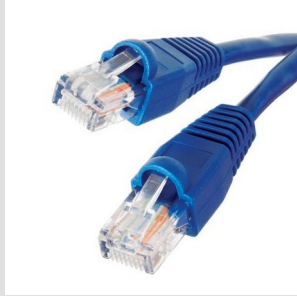


Tiago(EV)
(2024)



Vande Bharat
(2024)

Why Vahiny ?



IP Based
TCP/IP Protocol



Modular Electronics
(No Vendor Locking)



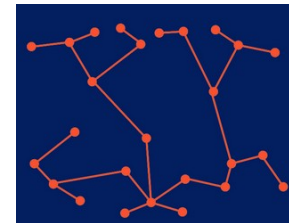
HDMI Capacitive
Touchscreen



Receive
Acknowledgment

- 2014/30/EU - EMC
- 2014/35/EU - LVD
- 2006/42/EC - MD

Latest
Compliance



De-Centralized

Tube & Bend



- IS4985 – Cap : 4000 mbar
- PVC-U Pipe Wall Thickness
 - 110mm - 3mm
 - 160mm - 4mm
- Transparent
 - PVC
 - PMMA
 - PC



OD110

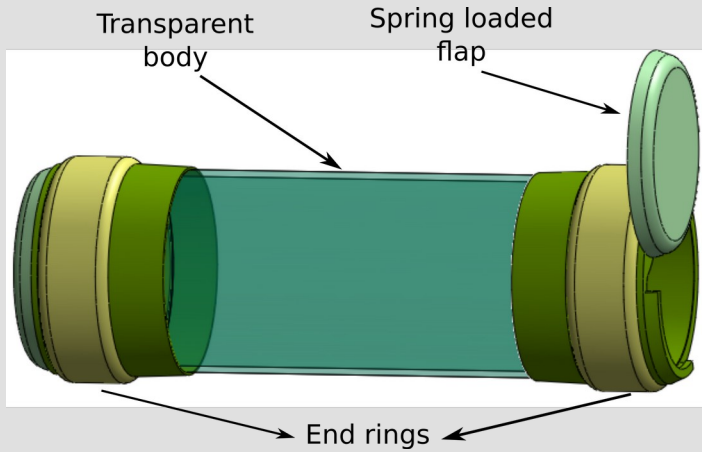
- Radius : Min 650mm
- Payload Capacity : 1.0 kg
- Speed : 4-6 meter/second



OD160

- Radius : Min 800mm
- Payload Capacity : 2.0 kg
- Speed : 4-6 meter/second

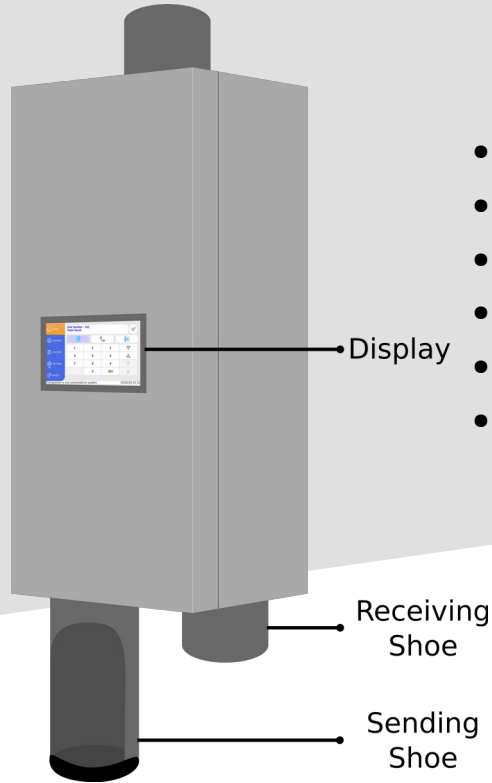
Carrier - Vahak



- Wide end rings for smooth travel
- Transparent body
- Easy to handle, fall proof
- Easy to replace End Rings
- Can be used till 200km



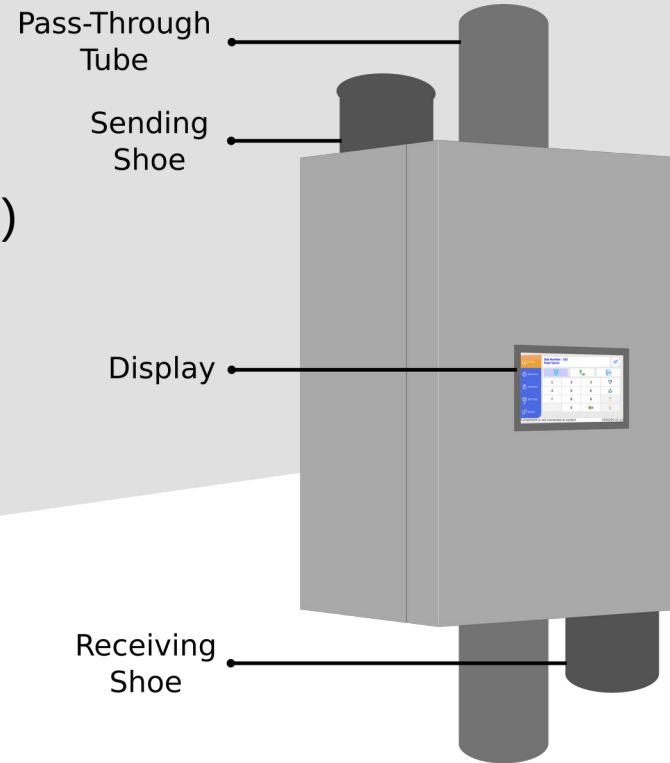
End Type Station (Indus)



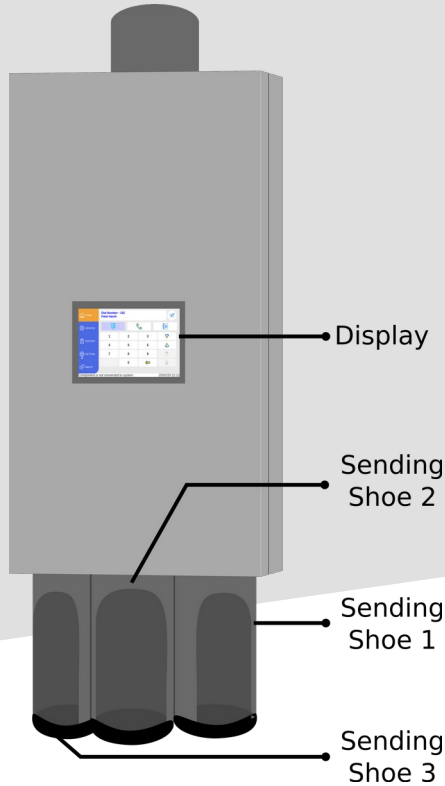
- Only Top Pipe Connection
- Carrier in Queue
- Bottom Plate 1100mm from finished floor
- Air-Cushion while receive for soft landing
- Receiving Basket, Upholstery, Carrier Rack
- Beeper with light Blink to Notify

Pass-Through Station (Rewa)

- 2 way connection (Top & Bottom)
- Soft landing in Basket
- Carrier in Queuing is possible
- Top Plate 1600mm from finished floor



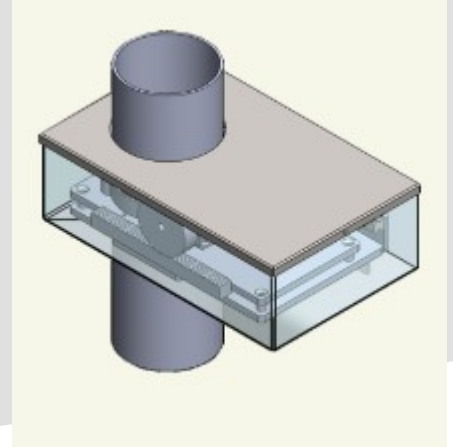
Multi Send – Multi Receive



- Dedicated Blower Line for Sending and Receiving Station
- Multi Send**
- It can load upto 3 Carriers
- Only sending operation
- It can manage high sending load

Multi Receive

- Also known as Lab Station.
- Queued receiving is possible
- It can manage high receiving load



Diverter

- 3- Way or 4-Way
- State of Art Servo Motors for accurate hole position
- Non-contact type Photo-electric sensor to check carrier passed status
- Outer cover made from MS with powder coating

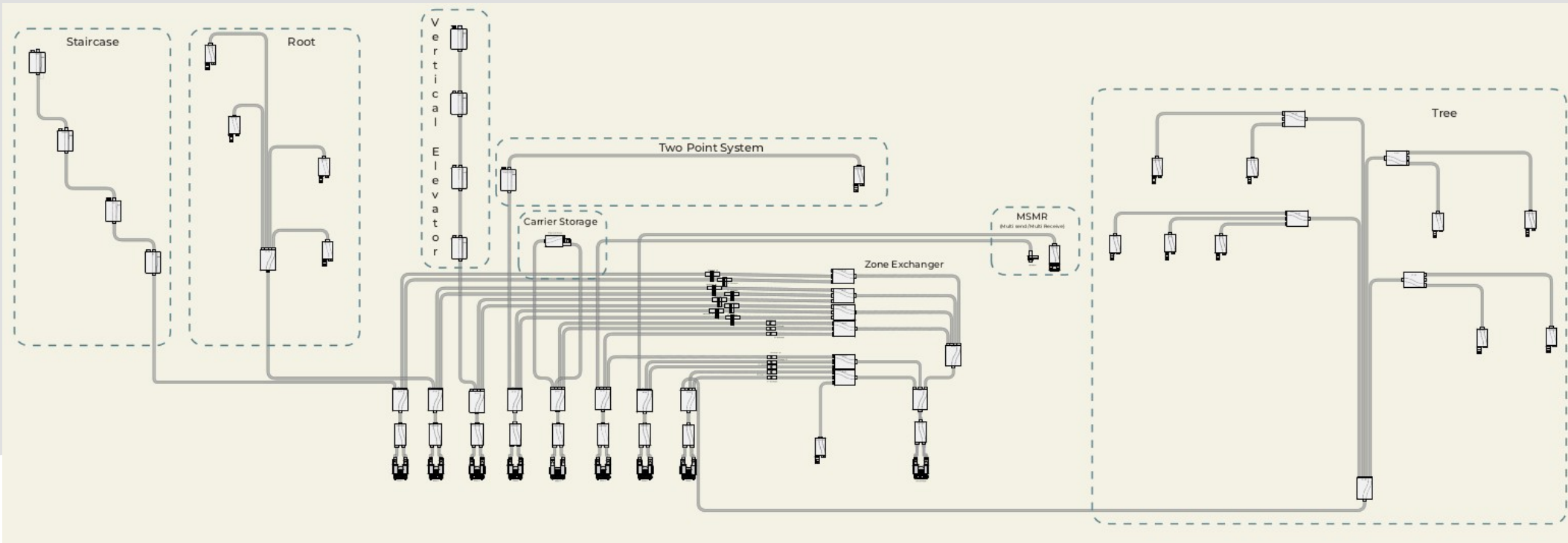


Side Channel Blower

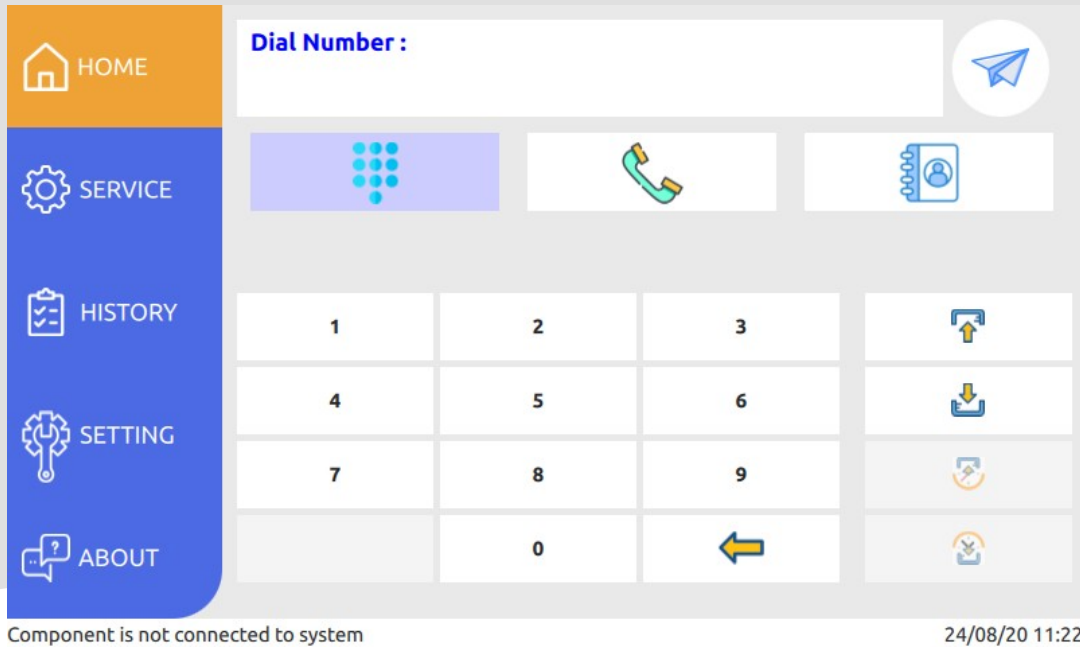
- Unidirectional Motor Rotation
- Air Flow Changing component
- VFD and protection equipment
- Wide range of power capability(2.3Kw to 6.3Kw)
- Suction range 230mbar – 320mbar
- Pressure range 250mbar – 350mbar
- Airflow as per requirement of project



Zone Exchanger



Shishya - Software



- Capacitive 7" touch screen
- Local service
- Local language support
- History
- Speed dial & address book
- Taskbar for status
- Lock Screen
- Put Carrier → Select/Search
Destination Code → Press Send
on Screen

Gyan - Desktop Software

The screenshot displays the Gyan Desktop Software interface. At the top is a menu bar with 'System', 'Edit', 'View', 'Management', and 'Help'. Below the menu is a toolbar with icons for search, zoom, and other functions. The main window is divided into three sections:

- System Tree:** A sidebar on the left with a search bar 'Type to Search Component'. It lists components: 'System' (with a refresh and delete icon), 'New Zone' (with a refresh and delete icon), 'P2P Zone' (with a refresh and checkmark icon), and 'Zone 1' (with a refresh and checkmark icon).
- Network Diagram:** A central area showing a network topology with various devices (routers, switches, servers) connected by lines. The background is light blue with a green ground area at the bottom.
- Shipments Table:** A table at the bottom with columns: Name, Status, Sending Component, Sender, Receiving Component, Receiver, Sending Time, Start Time, Receiving Time, and Carrier.

Name	Status	Sending Component	Sender	Receiving Component	Receiver	Sending Time	Start Time	Receiving Time	Carrier
51692	✓	Moselle	Vishal Bhalani	Nile	Harsh Patel	07/12/21 09:32:27 AM	07/12/21 09:32:27 AM	07/12/21 09:32:49 AM	No Name
51691	✗	Nile	Harsh Patel	Donau	Saklen Pathan	07/12/21 09:32:03 AM	07/12/21 09:32:03 AM		No Name
51690	✓	Nile	Harsh Patel	Donau	Saklen Pathan	07/12/21 09:14:26 AM	07/12/21 09:14:26 AM	07/12/21 09:14:37 AM	No Name
51689	✗	Nile	Harsh Patel	Donau	Saklen Pathan	07/12/21 09:14:07 AM	07/12/21 09:14:07 AM		No Name
51688	✓	Donau	Saklen Pathan	Nile	Harsh Patel	07/12/21 09:13:46 AM	07/12/21 09:13:46 AM	07/12/21 09:13:59 AM	No Name

- Localized GUI
- History
- Statistics
- Real-Time Visualization
- Connection Status
- Remote Service
- Carrier Tracking
- User Management
- Module and device management
- Backup and restore
- Service Logbook

Comparison Matrix

Feature	Aerocom/Telecom	Sumetzberger	Swisslog/Airlog	Hortig/Hanazeder	Vahiny
Communication	Serial Protocols	Serial Protocols	Serial Protocols	Serial Protocols	LAN
Installation	Long Cabling	Long Cabling	Long Cabling	Long Cabling	LAN Port Cabling
Component Movement	Serial	Serial	Serial	Serial	Parallel
Indian Language	No	No	No	No	Yes
Display	Push button, keypad	Push button keypad	Push button keypad	Push button keypad	7" Capacitive Touch
Parts	Imported	Imported	Imported	Imported	Locally Available
Power Supply	Powerpack	Powerpack	Powerpack	Powerpack	Domestic 3 pin Socket
OS	Windows	Windows/Linux	Window	Window	Linux/Windows
Existing Dead System	Yes	Yes	Yes	NA	No
Stations/Diverter	Imported	Imported	Imported	Imported	Indigenous
Parts Cost	Expensive	Expensive	Highly Expensive	Economical	Economical
Modular Electronics	No	No	No	No	Yes
Vendor Locking	Yes	Yes	Yes	Yes	No
Country Of Origin	Germany/Netherland	Austria	Switzerland	Austria/Germany	India
Owner Firm	Aerocom(Germany)	Sumetzberger(Austria)	Midea Group(China)	Hortig/Hanazeder	HAS(Gujarat, India)
Service Provider	Protos Engineer	Medfresh/Narula	SNG	Airox/Window Tech	HAS(Gujarat, India)
PVC Pipe	Imported	Imported	Imported	Imported	Indigenous (Finolex/Supreme)
Affordable	Highly Expensive	Highly Expensive	Expensive	Expensive	Economical

Turn-Key Offerings



Planning



Design



Manufacture



Supply



Installation



Testing



Commissioning



Training

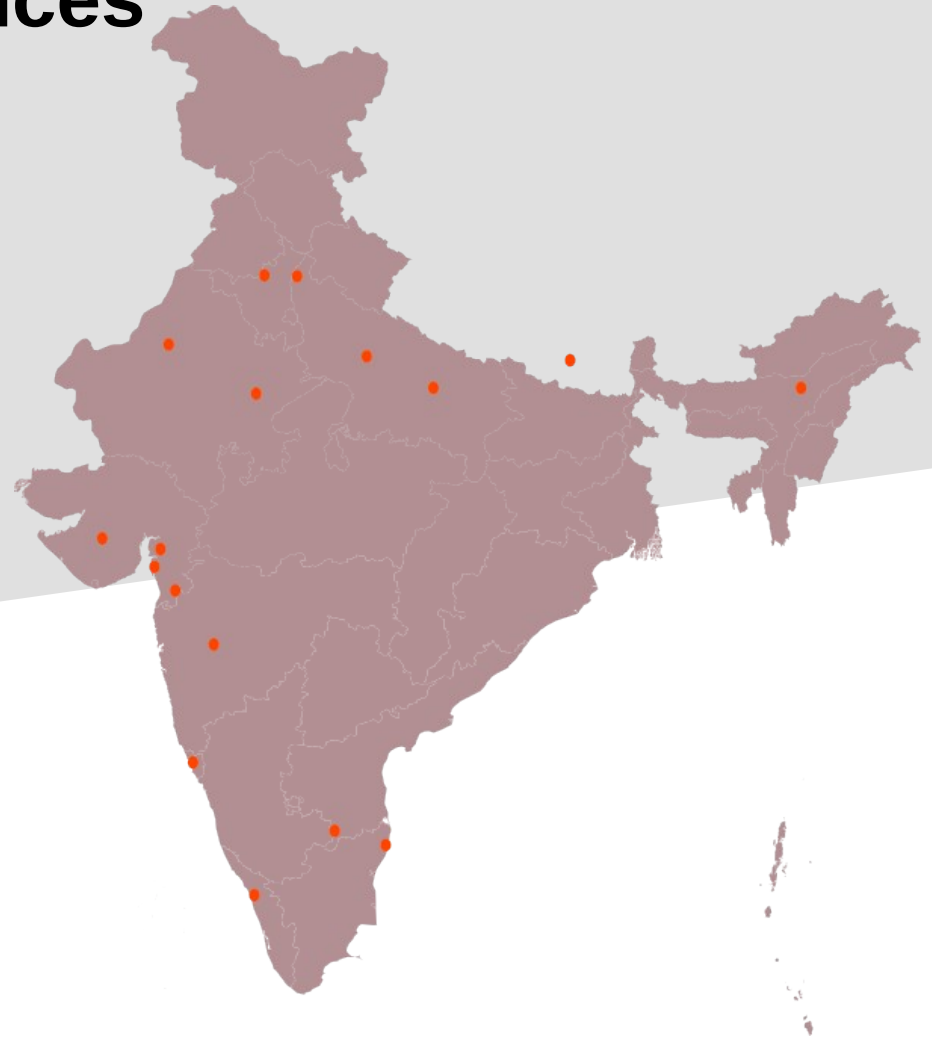


Maintenance

References

- Rajiv Plastics, Silvassa, DN
- Elysium Pharmaceuticals Unit - 1, Baroda, GJ
- Elysium Pharmaceuticals Unit - 2, Baroda, GJ
- Accuvance Animal IVF Lab, Jhajjar, HR
- Rajiv Plastics Extension, Silvassa, DN
- Madras Medical Mission Phase - 1, Chennai, TN
- Sui-ka-Pha Multispeciality Hospital, Sibsagar, AS
 - Spandana Hospital, Bengaluru, KA
- Madras Medical Mission Phase - 2, Chennai, TN
 - Aadicura Hospital, Baroda, GJ
 - Pranayam Hospital, Baroda, GJ
- Banaras Hindu University, Varanasi, UP
- Birla-Furukawa Fiber Optics, Goa, GO
 - SIDS Hospital, Surat, GJ
 - Universal Hospital, Surat, GJ
 - Wiins Hospital, Kolhapur, MH
 - National Healthcare, Nepal
- Muktaashram Hospital, Pune, MH
- Hegdewar Hospital, Amravati, MH
 - H J Doshi, Rajkot, GJ
- Indo Brain and Spine Hospital, Jaipur, RJ
- Pushpagiri Medical College, Thiruvalla, KL
- Kothari Hospital & Medical Research, Bikaner, RJ
 - Marwar Hospital, Bikaner, RJ
- Namchi General Hospital, Namchi, SK
 - STNM Hospital, Gangtok, SK
 - Shree IVF, Ghatkopar, MH

Many More Projects...





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