

Nanjing Pharmatechs Co., Ltd. Presentation



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Geographic

Nanjing

190 miles from Shanghai

750 miles from Beijing

Area

2548 sq. miles

Population

6.24 million

Language

Mandarin

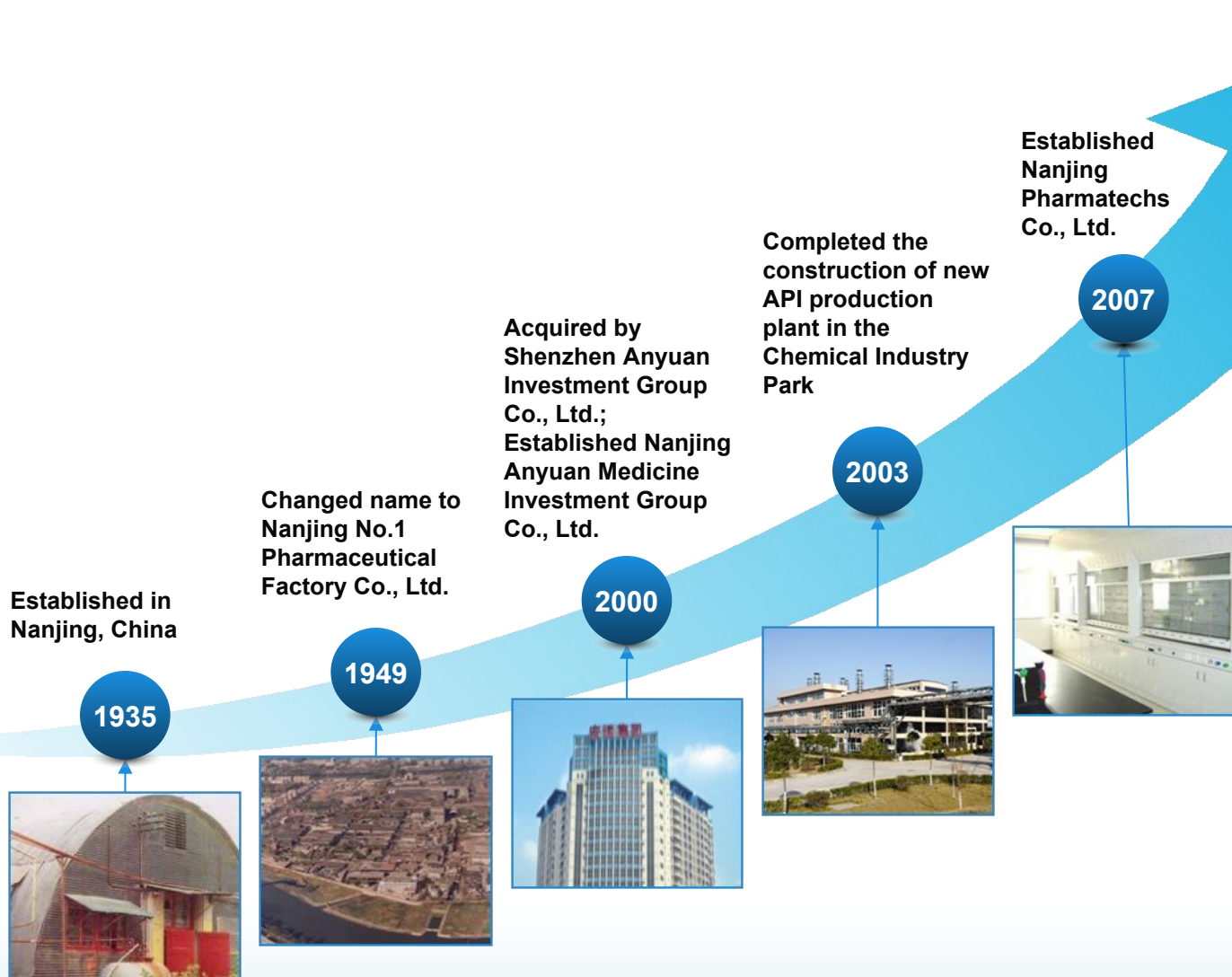
Nanjing Chemical Industry Park

(One of only two government owned Chemical Industry Parks)

19 miles from downtown Nanjing

36 miles from Nanjing International Airport

History



Custom process research and development;

Custom synthesis from milligrams to tens of kgs;

Custom manufacturing of non-GMP pharmaceutical intermediates and starting materials up to metric ton scales;

Custom analytical development.

Products and services at competitive prices;

Technical abilities;

Western style management;

Production under cGMP controls.

Management Team

Ying Tang, Ph.D. *President*

**Over 18 years' experience in pharmaceutical process R&D and API manufacturing;
Formerly Distinguished Scientist at Roche Colorado Corp.;
Ph.D. in Organic Chemistry from University of Manchester, UK.;
Post-doctor at the University of South Carolina.**

Mr. Xiaowen Zhang, *Vice President of Operation*

**Over 10 years' experience in business operation;
Formerly manager of operation of Nanjing Anyuan Medicine Investment Group Company.**

Mr. Jie Yang, *Director of R&D*

**Over 15 years' experience in process R&D and API manufacturing;
B.S. in Chemistry from Taiyuan University of Technology.**

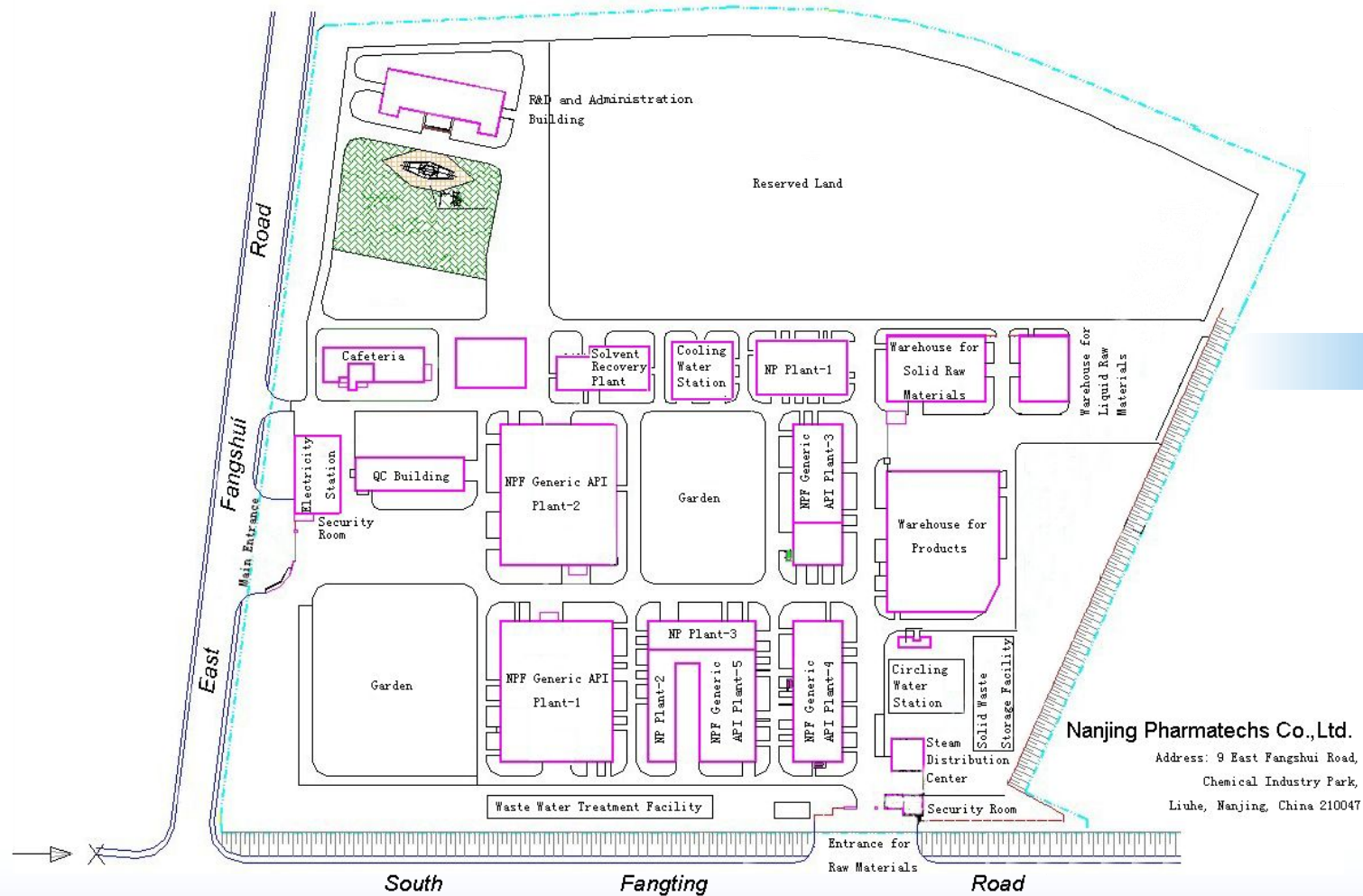
Mr. Zhongjun Shi, *Director of Quality*

**Over 20 years' experience in quality management (QA/QC);
Formerly manager of QA of Nanjing Pharmaceutical Factory Co., Ltd.**

Mr. Sujiang Wang, *Director of Production*

**Over 30 years' experience in production;
Formerly manager of production of Nanjing Pharmaceutical Factory Co., Ltd.**

Site Plot

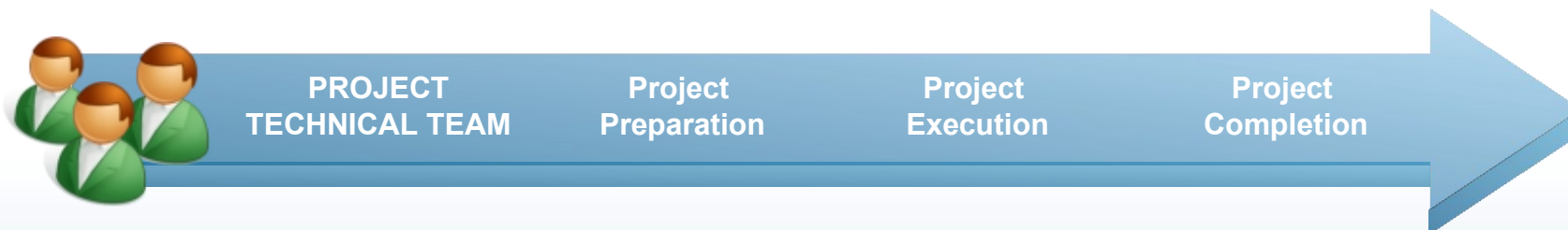
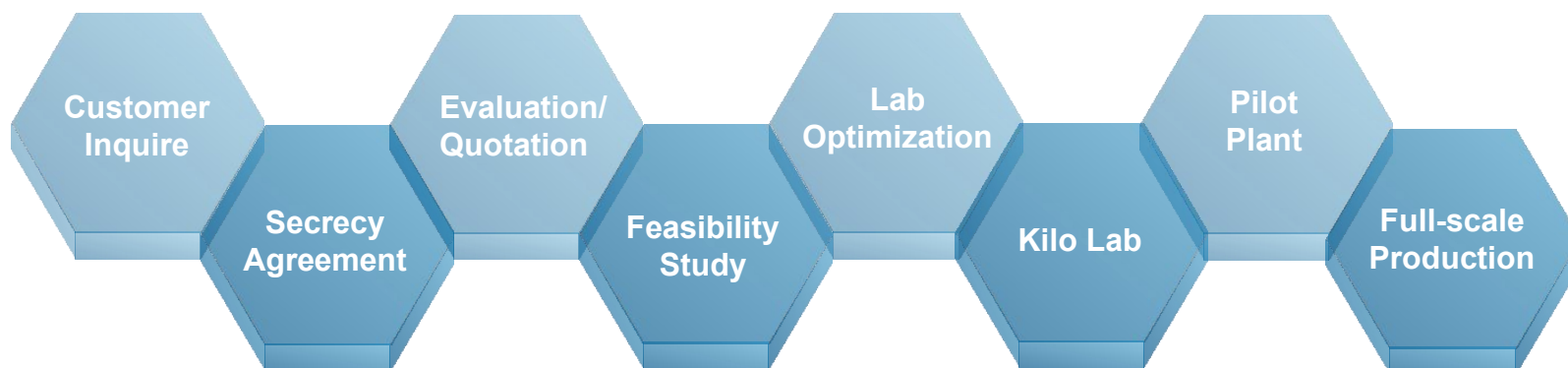


Total Area

50 Acres

Nanjing Pharmatechs Co., Ltd.
Address: 9 East Fangshui Road,
Chemical Industry Park,
Liuhu, Nanjing, China 210047

Project Management



All employees must participate in the Intellectual Property protection training program;

All employees must sign the Non-disclosure Agreement;

All employees must comply with the Need-to-know Policy;

All electronic documents are password protected;

All paper documents are stored and locked;

All external communications related to customer information requires approval from the customer and the management.

R&D and Kilo Laboratories

80,000 sq. ft.

Fume Hoods

92 (including 8 walk-in hoods)

Jacketed Glass Reactors

20L, 30L, 50L and 100L

High Pressure SS Hydrogenators

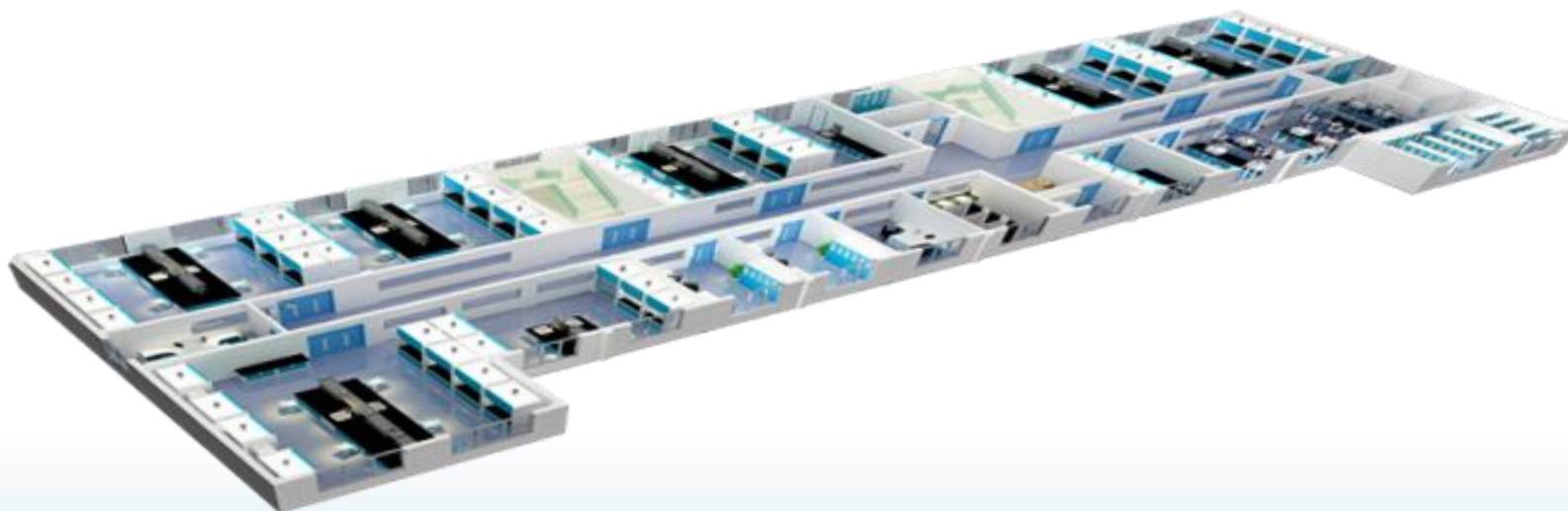
0.5L, 2L and 5L

Rotary Evaporators

1L, 5L, 20L and 50L

Temperature

-78°C to 200°C



R&D and Kilo Lab



Analytical Support

Analytical Laboratories

14,000 sq. ft.

Analytical Equipments

Agilent HPLC 1100, 1260

10

Shimadzu HPLC 2010

2

Shimadzu GC 2010

3

Shimadzu FT-IR 8300

3

Shimadzu UV-Vis 2450

1

Mettler KF Titrator DL-38

1

Malvern Mastersizer 2000

1



Pilot Plant

Pilot Plants	3
50L to 1000L Glass-lined Reactors	30
50L to 1000L SS Reactors	2
Vacuum and Warm-wind Cycle Dryers	4
Centrifuges	5 (SS and PE Coated)
Mills	2
Temperature	-20°C to 140°C
Pressure	Up to 100 bar



Commercial Production

Pilot Plants	3
500L to 5000L Glass-lined Reactors	45
500L to 5000L SS Reactors	18
2000L SS Hydrogenators (Up to 100 bar)	2
1000L Glass-lined Hydrogenator (Up to 15 bar)	1
Centrifuges	6 (Vertical in SS304, SS316)
Driers	6
Mills	3
Temperature	-20°C to 140°C
Pressure	Up to 100 bar



QA/QC Specialists	12		
Analytical Tests Performed by QC	Qualitative Analysis (IR, ¹HNMR, ¹³CNMR, ³¹PNMR, ¹⁹FNMR, Mass Spectra)	Quantitative Analysis (HPLC, GC, ¹HNMR)	Residue on Ignition (ROI)
	Residue Solvent (GC)	Loss on Drying (LOD)	Heavy Metal (ICP)
	Melting Point	Water Content (KF)	Specific Rotation
Stability Test	25±2°C/60%±5%RH	30±2°C/60%±5%RH	40±2°C/75%±5%RH

Nanjing Pharmatechs has achieved ISO9001:2008 certification on January 28, 2011



Nanjing Pharmatechs has established the EH&S management system according to the guidelines of GB/T24001-2004 idt ISO14001:2004 and OHSAS18001:1999;

Nanjing Pharmatechs passed AstraZeneca EH&S audit on November 13, 2012



THANKS



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