AgroSpectrum ASIA
Envisaging Future | Updating Present

Qingdao Rainbow Chemical plans $ 29.5 Million expansion for 2,500 TPA insecticide and fungicide capacity

28 September 2026 | News

Phase I at Pingdu Xinhe Chemical Industry Park will establish three technical-grade production lines, covering 1,550 TPA of fungicides and 950 TPA of insecticides

Qingdao Rainbow Chemical Co., Ltd. is planning a USD 29.49 million (RMB 200 million) expansion at the Pingdu Xinhe Chemical Industry Park in Qingdao, Shandong Province, with the company's environmental impact report outlining a new 2,500 tonnes per annum (TPA) insecticide and fungicide production project. The project will establish three technical-grade (TC) production lines with a combined designed capacity of approximately 2,500 TPA. Lines 1 and 2 will each have a nominal capacity of 1,100 TPA, while Line 3 will have a capacity of 300 TPA. The overall product portfolio comprises 1,550 TPA of fungicides and 950 TPA of insecticides.

Construction is planned in two phases, with Phase I focused on establishing the three TC production lines and Phase II expanding the number of products that can be manufactured through co-line switching.

Phase I establishes four active ingredient capacities

Under Phase I, Line 1 will manufacture fluxapyroxad and fluopyram, each at 150 TPA, giving the line a combined capacity of 300 TPA. The two products will be manufactured through line switching, with fluxapyroxad production planned for 728 operating hours and fluopyram for 1,005 hours. Line 2 will produce 50 TPA of cyantraniliprole, with an estimated operating time of 1,872 hours.

Line 3 will be dedicated to 300 TPA of sulfoxaflor, with planned operating time of 7,200 hours. The initial phase therefore establishes production capabilities across both fungicide and insecticide active ingredients, providing the company with a broader manufacturing platform within the chemical industry park.

Phase II broadens product portfolio

The second phase will expand the production flexibility of Lines 1 and 2 through additional reactors, solvent distillation units, drop tanks, condensers and environmental treatment equipment. On Line 1, the additional equipment will enable co-line

switching across five products, adding 800 TPA of capacity. The portfolio will include 200 TPA of cyazofamid, 150 TPA of bupirimate, 100 TPA of hymexazol, 200 TPA of isoprothiolane and 150 TPA of tolfenpyrad.

Line 2 will receive additional synthesis reactors, three-in-one filter presses, drop tanks, condensers and environmental protection equipment. This expansion will support co-line production of four additional products, taking added capacity to 1,050 TPA. The Line 2 Phase II portfolio will comprise 300 TPA of propineb, 250 TPA of fenpropathrin, 200 TPA of etoxazole and 300 TPA of dithianon.

The expansion will give Qingdao Rainbow Chemical a significantly broader active ingredient manufacturing portfolio while allowing multiple products to be produced through flexible production-line configurations.

Portfolio spans 13 fungicide and insecticide products

Across the two phases, the project covers 13 products. The fungicide portfolio includes fluxapyroxad, fluopyram, cyazofamid, bupirimate, hymexazol, isoprothiolane, propineb and dithianon. The insecticide portfolio comprises cyantraniliprole, sulfoxaflor, tolfenpyrad, fenpropathrin and etoxazole. The project represents an expansion of Qingdao Rainbow Chemical's manufacturing footprint in Shandong, combining additional technical-grade production capacity with a wider range of crop protection active ingredients.