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# Asia-Pacific Soil Conditioners Market By Nature (Water Soluble and Hydrogels), By Type (Surfactants, Gypsum, Super Absorbent Polymers, Others), By Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables and Other Crops), By Application (Agricultural and Industrial), By Soil Type (Sand, Silt, Clay, Loam and Peat), By Country, Competition, Forecast and Opportunities, 2020-2030F

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## Abstracts

Asia-Pacific Soil Conditioners Market was valued at USD 274.04 Million in 2024 and is expected to reach USD 378.56 Million by 2030 with a CAGR of 5.49% during the forecast period. The Asia-Pacific Soil Conditioners Market is driven by the increasing demand for sustainable agriculture, rising soil degradation, and the need for higher crop yields. Rapid urbanization and intensive farming have led to soil nutrient depletion, compelling farmers to adopt soil conditioners to improve soil structure, water retention, and fertility. Government initiatives promoting sustainable farming practices and organic agriculture are further boosting market growth. The rising awareness of soil health and the adoption of precision farming techniques are accelerating the use of both organic and inorganic soil conditioners. Additionally, the expansion of the horticulture and floriculture sectors, along with the growing demand for high-quality produce, is fueling the adoption of soil conditioners across countries like China, India, Japan, and Australia.

Key Market Drivers

Increasing Soil Degradation and Declining Soil Fertility

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Soil degradation is one of the most pressing agricultural challenges in the Asia-Pacific region, driven by intensive farming practices, excessive use of chemical fertilizers, deforestation, and industrial pollution. As countries like China, India, and Indonesia struggle with declining soil health, farmers and agribusinesses are increasingly turning to soil conditioners to restore fertility and improve soil structure. Repeated cropping without adequate soil replenishment has led to nutrient depletion, compacted soils, and reduced microbial activity, negatively impacting productivity. Soil conditioners, particularly organic variants, play a crucial role in reversing these effects by enhancing soil aeration, increasing organic matter, and improving microbial diversity. In November 2023, BASF and Yunnan Yuntianhua Co., Ltd., a leading Chinese chemical fertilizer manufacturer, have initiated a pilot project in China to assess the reduction of CO?e emissions through the use of Yuntianhua's stabilized urea fertilizer, enhanced with BASF's urease inhibitor Limus®. The findings from this initiative are expected to contribute to climate-smart farming efforts in China and pave the way for global program expansion.

Governments across the region have recognized the urgency of addressing soil degradation, introducing policies that promote sustainable soil management practices. For instance, China's "Zero Growth of Fertilizer Use" initiative aims to reduce chemical fertilizer dependency by encouraging the use of organic alternatives such as bio-conditioners and compost. In India, the National Mission for Sustainable Agriculture (NMSA) supports soil health management through subsidies and farmer education programs, further fueling the adoption of soil conditioners. With the increasing awareness of soil conservation, demand for soil conditioners is expected to rise significantly, reinforcing their role in restoring soil health and ensuring long-term agricultural sustainability.

Key Market Challenges

High Costs and Limited Affordability for Small-Scale Farmers

One of the biggest challenges in the Asia-Pacific Soil Conditioners Market is the high cost of soil conditioning products, particularly advanced organic and bio-based conditioners. Many farmers, especially small-scale growers in developing countries such as India, Bangladesh, Vietnam, and Indonesia, struggle with limited financial resources and cannot afford expensive soil conditioners regularly. Organic soil conditioners like biochar, humic acid, and vermicompost require significant production and processing efforts, leading to higher prices compared to conventional chemical fertilizers. While government subsidies and incentive programs exist in some countries,

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they are often insufficient to cover the costs for a large number of farmers. Additionally, logistical barriers, such as the lack of proper distribution networks, further limit accessibility, particularly in rural areas where farming communities need these products the most. In countries like China and India, where the majority of farmers own small landholdings, investing in high-quality soil conditioners is often seen as an extra financial burden rather than a necessity. This creates a dependency on cheaper, synthetic fertilizers, which, while providing short-term yield boosts, contribute to long-term soil degradation. Even when farmers are aware of the benefits of soil conditioners, financial constraints force them to prioritize essential inputs such as seeds and pesticides over soil health-enhancing products. Until more affordable and scalable solutions are introduced, cost-related barriers will continue to hinder widespread adoption of soil conditioners in the region.

Key Market Trends

Increasing Demand for High-Quality Agricultural Produce

Consumer preferences are shifting toward high-quality, nutrient-rich produce, driving farmers to improve soil health through conditioners. Countries like Japan and South Korea have strict quality standards for food products, encouraging farmers to use soil conditioners that enhance soil fertility and crop nutrition. In December 2023, Tokyo-based agrochemical manufacturer Sumitomo Chemical is set to establish a new agrochemical plant in western Gujarat, India. The company plans to acquire approximately 50 acres of land and aims to complete construction by 2027. With an initial investment exceeding 5 billion yen ($35 million), the total investment is expected to reach several tens of billions of yen over the mid- to long-term as the facility expands.

Export-oriented agricultural industries in Australia, New Zealand, and Thailand are also investing in soil conditioning to meet international quality requirements. The integration of soil conditioners in commercial farming helps improve crop texture, taste, and shelf life, making them more competitive in global markets. As agricultural exports grow and consumer expectations rise, soil conditioners will play a key role in ensuring premium-quality food production.

Key Market Players

Rallis India Limited

ADEKA Corporation

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UPL Limited

Omnia Specialities Pty

Gujarat State Fertilizers and Chemicals Limited

BASF India Limited

Novozymes South Asia Private Limited

Syngenta India Private Limited

Greenfield Eco Solutions Pvt. Ltd.

Biobank Co., Ltd.

Report Scope:

In this report, the Asia-Pacific Soil Conditioners Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Asia-Pacific Soil Conditioners Market, By Nature:

Water Soluble

Hydrogels

Asia-Pacific Soil Conditioners Market, By Type:

Surfactants

Gypsum

Super Absorbent Polymers

Others

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Asia-Pacific Soil Conditioners Market, By Crop Type:

Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetable

Other Crops

Asia-Pacific Soil Conditioners Market, By Application:

Agricultural

Industrial

Asia-Pacific Soil Conditioners Market, By Soil Type:

Sand

Silt

Clay

Loam

Peat

Asia-Pacific Soil Conditioners Market, By Country:

China

Japan

Australia

Thailand

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India

Indonesia

South Korea

Singapore

Malaysia

Vietnam

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia-Pacific Soil Conditioners Market.

Available Customizations:

Asia-Pacific Soil Conditioners Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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## 6. COUNTRY ANALYSIS

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