India Bio-acetic Acid Market Assessment, By Source [Biomass, Corn Starch Others], By Production Process [Bioconversion, Extraction, Others], By End User [Food & Beverage (Vinegar, Cocoa, Kombucha, Mayonnaise, Others), Chemical Solvents (Vinyl Acetate Monomer, Cellulose Acetate, Others), Pharmaceuticals, Cosmetics, Rubber & Plastics, Textiles Manufacturing, Others], By Region, Opportunities and Forecast, FY2017-FY2031F

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Report description:

India Bio-acetic Acid Market size was valued at, USD 35.7 million in FY2023, which is expected to reach USD 77.6 million in FY2031 with a CAGR of 10.2% for the forecast period, between FY2024 and FY2031. Bio-based products are imperatively used in numerous applications such as food processing, chemical industries, medical deliveries, and others where the prominent composition of bio-based acetic acid is important. Conventional acetic acid production involves the carbonylation process where the reaction is catalyzed using rhodium or iridium catalyst. The catalytic reaction leads to numerous impurities in the final sour acid products, which degrade the final product compositions in various sectors. Stringent regulations framed by Indian government entities has imposed to process acetic acid-based products, which is one of the driving factors of the growth of bio-acetic acid market in India.

Numerous bio-based acetic acid applications have been extensively used in different products across various Indian industrial sectors. Vinyl acetate monomer (VAM) production process is considered as imperative intermediate step for wide range of resins and polymers for films, paints, sealants, textiles, etc. Purified terephthalic acid (PTA) is incorporated in the manufacturing of PET bottles for storing liquids and beverages. Every such production unit requires high purity of bio-based acetic acid which significantly serve as a feedstock and is anticipated to revolutionize the bio-based acetic acid market in India.

Increase in Bio-Acetic Acid Certifications and Productions

Bio-based acetic acid is anticipated to deliver a prominent role in propelling the acetic acid market, especially in regulations with sustainable goals. Bio-based products in India have an increasing demand in the industrial market space, owing to the regulations from USDA (certified under bio-preferred programs). Regulatory certified bio-acetic acid is progressively used in various applications, filling the bridge of bio-based conditions. Either acetic acid or in reacted product form, the certification can be provided to both, based on the level of sustainability and biodegradability. Ethyl acetate, which is produced from acetic acid and ethanol using esterification process is certified by the USDA.

Biomass fast pyrolysis using the aqueous phase of pyrolysis liquid consecutively contains a certain amount of acetic acid. It could become a renewable source for the generation of bio-acetic acid. Furthermore, bio-acetic acid can be recovered using nanofiltration, reactive extraction, and reverse osmosis membrane. Advertently minimizing the conventional fossil-based acetic acid usage and focusing on additional bio-acetic acid will significantly aid in developing more sustainable bio-based industry leading to the growth of India bio-acetic acid market.

Bio-Acetic Acid to drive the Market as an Active Functioning Chemical in India

Bio-based acetic acid, a green chemical, has tremendous applications in our daily products proceeding in everyday practices. Acetic acid is substantially used as an intermediate chemical to produce vinyl acetate that progressively converts into various forms of plastics. To manufacture linen fabric or spectacle frames, acetic acid is incorporated as a basic raw material where initially acetate and acetate silk are produced, followed by final linens. The functional characteristics of acetic acid assist in inhibiting the proliferation of various pathogenic bacteria. Acetic acid salts, also called acetates, are solely responsible for effectively inhibiting such harmful pathogens. Acetic acid is exclusively incorporated as a preservative or acidity regulator in various food stuffs and vegetable pickles.

Bio-acetic acid is considered a prominent and diverse industrial organic chemical. With the development of advanced green chemistry, Indian companies are producing non-methanol-based acetic acid which promotes sustainability and is environmentally friendly. The large-scale usage is the industrial production of vinyl acetate monomer, consecutively producing acetic anhydride and ester. Bio-acetic acid market in India carries extreme potential as major government and private chemical companies are indulge in producing more effective and greener acetic acid.

Impact of COVID-19

The prevailing impact of COVID-19 pandemic was an important concern for the Indian market. The supplied quantity of acetic acid gradually declined due to disruptions and shutdown of various manufacturing units. Suppliers' priority was to deliver to their contractual customers with a limited amount of acetic acid, but they landed in difficulty while meeting the surplus global need. During the prolonged COVID-19 impact, acetic acid supplies were subsequently limited to different regions of India. After the pandemic, the companies accompanied by the government had to put tremendous efforts by implementing advanced technologies to increase the production of bio-acetic acid.

Impact of Russia-Ukraine War

The annexation of Russia on Ukraine has shown an unprecedented impact on Indian economy leading to uneased political and economic uncertainty. Trade dynamics of India with Russia got disrupted followed by the severe sanctions imposed on the import or export policies. The application of bio-acetic acid in various products is significantly huge, which exacerbated with the ongoing conflicts. The implications for demand-supply balances, instability in price variations, and other parameters in bio-acetic acid trading accounted for economic devastation in various regions. The India's movement towards Russia was comparatively neutral where India continued with the trade, which ultimately benefitted the Indian economy. The continuous efforts by India through implementing regulations to ease of trade of bio-acetic acid has possibly increased the bio-acetic acid applications.

Key Players Landscape and Outlook

Chemical companies in India are substantially creating innovations in replacing conventional fossil-based acetic acid production with bio-related technologies. Godavari Biorefineries Ltd., a giant leader in chemical manufacturing companies, has effectively produced acetic acid from bio-based ethanol sticking to the "Green Chemistry Principles". Their bio-acetic acid is FSSAI and HALAL certified accounting its usage in various sectors including food, pharmaceuticals, beverages, etc. In addition to multiple significant certifications, their bio-based acetic acid under the Bio-Preferred Program is certified by U.S. Department of Agriculture (USDA) for explicit 100% bio-based carbon content. Similarly, Jubilant Ingrevia Ltd. have successfully introduced food-grade bio-acetic acid

derived from the natural feedstock of fermented sugars. Their product has qualified all relevant food product certifications such as ISO 22000, Kosher, Halal, FCC codex, etc.

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work

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