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The advancement in cloud seeding techniques and technological development in weather monitoring and forecast equipment to increase operational efficiency within the cloud seeding market. A specific type of cloud with certain temperatures can only guarantee designated outcome, else the operations are expected to be coined as failure. Technological advancement in weather forecasting technologies enables cloud seeding operators to pinpoint the cloud with designated specifications, increasing the success ration of complete operation. However, challenges like formation of cloud while the moisture is too less, limits the scope of cloud seeding in certain areas. Such challenges are expected to be addressed in coming years.

By type, the cloud seeding market is categorized by aerial cloud seeding and ground based cloud seeding. Depending on application, it is fragmented into increasing precipitation, mitigating hail damage and dispersing fog. By flare type, it is divided into end burning flares, ejection flares, automatic/remote based generator, manual generator, and flare trees. By seeding technique, the market is divided into hygroscopic and glaciogeneic. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Factors, such as increase in investment within cloud modification programs, introduction of new technologies, and rise in demand mitigate environmental threats. Rise in application of cloud seeding technologies to generate artificial rain and maintain water level in draught regions is expected to act as a primary market accelerator. Water deprecated regions, including Saudi Arabia have done notable investment within the market. For instance, in April 2022, the Saudi Arabia Council of Ministers announced inauguration of cloud seeding program over three cities to increase rainfall. The program is segmented in two phases. The first phase is stated to include setting up operations in Riyadh, Qassim, and hail region, followed by Asir, Al-Baha, and Taif regions in the second phase. The program is supposed to use advanced meteorological techniques to ensure environmental friendly operations.

According to Dhvanil Dave, Sr. Research Analyst, Aerospace and Defense at Allied Market Research, "By type, the aerial cloud seeding segment is expected to witness the highest growth rate within the forecast period. By application, the increasing precipitation segment incurs the higher share within the market segment. By flare, the end burning flares segment is expected to hold highest growth rate during the forecast period. By seeding technique, the hygroscopic

segment holds majority of market share in 2021. At present, North America is the highest revenue contributor and is expected to garner the highest revenue in the global cloud seeding market during the forecast period, followed by Asia-Pacific, LAMEA, and Europe.”

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KEY FINDINGS OF THE STUDY

By type, the aerial cloud seeding segment leads the market during the forecast period.

By application, the increasing precipitation segment leads the market during the forecast period.

By flare, the end burning flares segment is expected to grow at lucrative growth rate during the forecast period (2022-2031).

By seeding technique, the hygroscopic segment leads the market during the forecast period.

Asia-Pacific is anticipated to exhibit the highest CAGR during the forecast period.

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