

Utilising the bountiful resources of Mother Nature, we at Air Water Industrial Gas Division bring together invisible things that are instrumental to our survival and growth as a society. Our products of various gases like oxygen, nitrogen and argon not only sustain industries but also lives. Our progress is intricately linked to the sustainable development and growth of the communities in which we operate.

Air Water India plays a pivotal role in Air Water Inc, Japan's global growth strategy. At Air Water India, we are engaged in the manufacturing, storing, distributing, transporting, trading and selling of various gases like oxygen, nitrogen, argon, helium, hydrogen, nitrous oxide etc. We own and operate multiple large air separation units and filling stations across India.

We are committed to partner in the growth and development of India by consistently delivering quality solutions and services to all our customers including hospitals.

Air Water India currently produces 4500 TPD of oxygen, 4500 TPD of nitrogen & 170 TPD of Argon at our facilities across India.

Additionally, we are constructing 3300 TPD of oxygen and other gases manufacturing facility to be operational within Oct 2024-Oct 2025.

We are also leveraging our global capabilities to serve India with the supply of Helium, Speciality Gases & Chemicals, Control Freezers and providing comprehensive solutions for carbon capture and utilisation (CCU).

Going beyond our operational and manufacturing capability, we at Air Water India are firmly committed to invest our time and resources to serve the communities where we operate in the space of creating sustainable communities, skill development, women empowerment, clean water & sanitation together with fostering higher participation in primary and secondary education. Through our sustained interventions have been able to create value and serve our society better.

Air Water India Private Limited

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COVER STORY





Air Water India Private Limited

A Journey of Remarkable Growth and Innovation



Ariel View of an AWIPL state- of- the- art Filling Station.

In 2014, when Air Water Inc., a renowned Japanese conglomerate, ventured into India, the scale of growth and success that would follow was perhaps unimaginable. Yet, within just a decade, Air Water India Private Limited (AWIPL) has emerged as a formidable player in the industrial gas sector, solidifying its position as a leading manufacturer in the country. The company's extensive operations span the entire lifecycle of industrial gases such as oxygen, nitrogen, argon, and helium, from manufacturing and storage to distribution, trading, and leasing. Strategically positioned across eastern and southern India, AWIPL's state-of-the-art air separation units and multiple filling stations underscore its commitment to operational excellence.

Creating Value for Clients Through Reliability and Innovation

AWIPL's ethos revolves around delivering high-quality solutions and services that not only meet but surpass customer expectations. The company's unwavering focus on reliability, innovation, and operational efficiency has enabled it to forge long-term partnerships with clients, contributing significantly to their growth and success. Through these efforts, AWIPL not only enhances its brand value but also plays a pivotal role in the broader development and prosperity of the nation.

A Legacy of Innovation and Strategic Expansion

Air Water India Private Limited (AWIPL), as a subsidiary of the diversified conglomerate Air Water Inc., has been instrumental in driving the company's growth and success in the Indian market. With its robust presence across various sectors such as industrial and medical gases, AWIPL has significantly contributed to the conglomerate's overall achievements. By consistently expanding its manufacturing capabilities, enhancing customer experiences, and exploring new market territories, AWIPL is poised to continue its upward trajectory, further solidifying its role as a key player in India's industrial gas landscape. The company's commitment to innovation and quality has not only fostered its own success but has also strengthened the broader conglomerate's global presence. AWIPL's success in India has been driven by its strategic expansion of manufacturing facilities, a relentless commitment to quality, and a superior customer experience. The company is poised for continued growth as it ventures into new territories and consistently improves its sales performance.



Unwavering Commitment to Safety and Quality

Safety is not just a priority at AWIPL; it is a core value that permeates every aspect of the organization. In an industry where the handling of cryogenic liquids is a daily reality, the importance of safety protocols cannot be overstated. AWIPL empowers its employees with the authority to halt any operations deemed unsafe, reflecting the company's deep commitment to a safety-first culture.

Its safety protocols are rigorously aligned with the standards set by the Occupational Safety and Health Administration (OSHA). Moreover, the company has implemented an Integrated Management System (IMS) to standardize processes across all its facilities. The company's dedication to quality and safety is further evidenced by its certifications in ISO 9001:2015 (Quality Processes),



ISO 14001:2015 (Environmental Processes), and ISO 45001 (Occupational Health and Safety Processes).

Rising to Challenges with Resilience

The global pandemic posed unprecedented challenges across industries, and the industrial gas sector was no exception. During the COVID-19 crisis, AWIPL demonstrated remarkable resilience and adaptability by shifting a significant portion of its production capacity to the manufacture of medical oxygen-a critical resource during the pandemic. Operating its plants around the clock, AWIPL played a crucial role in meeting the soaring demand for medical oxygen across India.

Beyond its own operations, AWIPL collaborated with the armed forces to airlift medical oxygen tankers to the most affected regions, ensuring uninterrupted supply during the nation's time of need.

Strategic Expansion and Future Growth

In line with its strategic growth objectives, Air Water India is expanding its footprint with the construction of a new liquefied gases plant in Chennai, Tamil Nadu. This plant, slated for completion by October 2024, will produce liquefied oxygen, nitrogen, and argon, further enhancing the company's capabilities in India.

Air Water Inc. views its industrial gas supply business as a key growth driver, with India playing a pivotal role in this strategy due to its rapidly growing economy and population. The Indian government's goal of doubling crude steel production capacity to 300 million tons by 2030 highlights the immense potential of the industrial gas market in the country.

Since acquiring parts of the industrial gas businesses from two major players in 2019, AWIPL has successfully expanded its on-site gas supply to India's largest steel plants and grown its bulk & cylinder businesses in the eastern and southern regions of the country. The new Air Separation plant in Chennai aligns with AWIPL's broader strategy of establishing a robust production and logistics infrastructure, particularly in regions poised for industrial growth.

Beyond Business: Commitment to Sustainability and Social Responsibility

AWIPL's success is not solely measured by its business achievements; the company is equally committed to sustainability and social responsibility. Recognizing the environmental impact of its operations, AWIPL is actively working to reduce its carbon footprint. Air Water Inc., along with its U.S. subsidiary TOMCO Systems, is developing Carbon Capture & Utilization (CCU) solutions, which AWIPL plans to introduce to the Indian market. Additionally, AWIPL is exploring the use of solar energy to meet the substantial power demands of its industry.

The company's commitment to social responsibility is evident in its CSR initiatives, which are guided by the United Nations Sustainable Development Goals (UNSDGs) #4 (Quality Education) and #6 (Clean Water and Sanitation). However, AWIPL often goes beyond these mandates, engaging in activities that create value for communities across India. The company firmly believes that its growth is intrinsically linked to the development and well-being of the communities in which it operates.

A Vision for the Future

As AWIPL looks to the future, its focus remains on driving innovation, expanding its capabilities, and contributing positively to society and the environment. With its unwavering commitment to safety, quality, and sustainability, AWIPL is well-positioned to continue its journey of growth and success in India, making a lasting impact on the industry and the communities it serves.

"the company is considering a significant investment of capital and resources to foster the growth and development of its operations within India"

Mr. Kausik Mukhopadhyay

Managing Director of Air Water India Private Limited.

Mr. Kausik Mukhopadhyay holds an engineering degree from Calcutta University and a master's in business from S P Jain Institute of Management & Research, Mumbai. Kausik began his career in 1996 with Voltas Limited, a Tata Enterprise, where he worked in various roles until 2001. He then joined Larsen & Toubro Limited, contributing to the Heavy Engineering Division and Machinery & Industrial Product Division until 2011. In 2011, he moved to Praxair India Private Limited, a subsidiary of Praxair Inc., USA, where he served as Director of Business Development and later as Vice President overseeing businesses in East, North, and Central India. In 2019, he joined Air Water India Limited, a subsidiary of Air Water Inc., Japan, initially as Executive Director before advancing to

General Company Overview

SERC Industry Scenario: Can you provide an overview of Air Water India Private Limited's journey since its inception and how it has evolved over the years?

Kausik Mukhopadhyay: When Air Water first entered the Indian market in 2014, we couldn't have predicted the tremendous growth and expansion that would define our journey here. As a subsidiary of Air Water Inc. from Japan, our experience in India has been incredibly rewarding, allowing us to reflect on the remarkable achievements we've made in such a short period, establishing ourselves as one of the leading industrial gas manufacturers in the country.

Air Water Inc., a diversified conglomerate with interests spanning industrial gases, medical services, agriculture, food, and energy solutions, originated from the consolidation of Hoxan Corporation, Daido Sanso Co., Ltd., and Kyodo Oxygen Co., Ltd. Based in Osaka, Japan, the company recorded an impressive annual turnover of \$7.4 billion for FY 2023-2024. In India, through the expansion of our manufacturing facilities, improved sales performance, exceptional quality standards, enhanced customer experiences, and entry into new markets, we are on a path of significant growth and success.

SIS: What are the core values and missions that drive Air Water India's operations?

his current role.

KM: We are deeply committed to prioritising safety, ensuring that every aspect of our operations meets the highest standards to protect our employees, customers, and partners. Our dedication to customer centricity drives us to put the needs and expec-tations of our clients at the forefront of our business strategies, tailoring our solutions to deliver exceptional value and satisfaction. We also place a strong emphasis on impeccable quality, consistently striving to exceed industry benchmarks and deliver products and services that reflect our unwavering commitment to excellence.

In our pursuit of these core values, we implement rigorous safety protocols and quality control measures, actively seek feedback from our customers to refine our approach, and invest in continuous improvement to maintain our competitive edge. Our goal is to build lasting trust and long-term relationships by upholding the highest standards in every facet of our operations.

Business Operations

SIS: How does AWIPL ensure the quality and safety of its products, particularly in the manufacturing and distribution of gases like oxygen, nitrogen, and argon?

KM: When dealing with cryogenic liquid, it is safety first and safety always that is of paramount importance. All our employees are empowered to stop any work or refuse to undertake work that they find unsafe.



Commitment to Safety & Quality- The safety procedures and protocols as laid down within the organization are aligned to the standards as defined in OSHA (Operational Safety and Health Administration). We have an Integrated Management System (IMS) in place for ensuring standardized implementation of all processes within the organization.

All our facilities, both manufacturing and offices, are certified under -

ISO 9001:2015, Quality Processes

ISO 14001:2015, Environmental Processes

ISO 45001 Occupational Health and Safety Process

SIS: What role does AWIPL play in the broader strategy of Air Water Inc. in terms of its global operations?

KM: Air Water India Private Limited (AWIPL) plays a pivotal role in Air Water Inc's (AWI) global expansion strategy. As a key player in this ambitious vision, the company is considering a significant investment of capital and resources to foster the growth and development of its operations within India. This strategic focus reflects AWI's commitment to leveraging AWIPL's potential to drive innovation, enhance market presence, and establish a robust foothold in the Indian market.

By channeling substantial financial and operational resources into AWIPL, AWI aims to accelerate the company's growth trajectory, optimise its business processes, and expand its offerings to meet the evolving needs of the Indian market. This investment is expected to facilitate the development of cutting-edge technologies, expansion of production capabilities, and strengthening of customer relationships, positioning AWIPL as a central hub in AWI's global network.

Through these strategic investments, AWI is not only aiming to enhance its competitive edge but also to contribute to the economic growth of India by creating job opportunities and fostering local innovation. This approach underscores AWI's long-term vision of integrating global expertise with local insights to drive sustainable success.

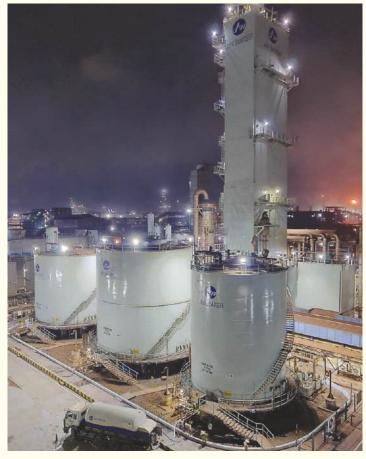
Acquisitions and Growth

SIS: How have the acquisitions of Praxair India's East Region Divestment Business and Linde India's South Region Divestment Business impacted AWIPL's market position and growth in India?

KM: Before pursuing these acquisitions, our company invested considerable resources in gaining a deep understanding of the Indian market, particularly within the industrial gases sector. The year 2019 was a pivotal moment, marking the start of AWIPL's journey in India. Since then, we have experienced significant growth, which has enabled us to establish a strong position among the leading industrial gas companies in the country. This strategic groundwork and subsequent expansion have been instrumental in cementing our foothold and driving our success in the Indian market.

SIS: Can you share some challenges and successes that AWIPL encountered during these acquisitions and subsequent integration processes?

KM: In the fiscal year 2020-2021, our company undertook a significant restructuring effort to align with corporate and business mandates. This involved integrating operations across different regions, developing operational procedures in line with AWI's global policies, and establishing a robust compliance culture.



Additionally, we implemented a comprehensive IT ERP system to support business. The successful completion of these initiatives laid a solid foundation, and the positive outcomes were clearly evident in the fiscal year 2021-2022 onwards, as the economy began to recover and open up.



Technological and Operational Excellence

SIS: What technologies and innovations are being leveraged by AWIPL to stay competitive in the industrial gas sector?

KM: In July '21, AWIPL decided to start participating in the on-site bids and started building a strong project management team in India. AWI has engineering & project management capabilities in Japan & USA. In the one extreme of spectrum we have Japanese precision and American technological knowhow, on the other side we have India Eng & project management capability known for delivering value. With such a formidable combination today our techno commercial offerings are one of the best in the Industry.

SIS: How does AWIPL ensure the efficiency and sustainability of its air separation units and filling stations across India?

KM: The company ensures the efficiency and sustainability of its air separation units (ASUs) and filling stations across India through a multi-faceted approach:

- **1. Advanced Technology:** We deploy cutting-edge technologies and equipment in our ASUs and filling stations to optimize performance and energy efficiency. This includes utilizing state-of-the-art automation and control systems to monitor and manage operations in real-time.
- **2. Regular Maintenance and Upgrades:** Our units undergo routine maintenance, condition based monitoring, and periodic upgrades to ensure they operate at peak efficiency. This proactive approach helps in identifying and addressing potential issues before they impact performance.
- **3. Sustainability Practices:** We are committed to environmental sustainability by implementing energy-efficient practices and reducing emissions. Our facilities are designed to minimize waste and incorporate energy-saving measures to lower our carbon footprint.
- **4. Compliance with Standards:** We adhere to stringent industry standards and regulations for safety, quality, and environmental management. This ensures that our operations meet or exceed national and international benchmarks.
- **5. Skilled Workforce:** Our team of highly trained professionals continuously monitors and optimizes operations to ensure efficiency and address any challenges promptly.

By integrating these strategies, AWIPL not only enhances the efficiency of its air separation units and filling stations but also supports our broader commitment to sustainability and environmental stewardship.

Market and Industry Perspective

SIS: How does AWIPL foresee the future of the industrial gas industry in India, and what strategies are in place to adapt to changing market demands?

KM: Steel is one of the major thrust area in India where the country is poised to witness 300 MTPA production capacity from the current level of 150 MTPA. This gives huge opportunity for Industrial gases, as O2, N2, Ar are essential part of steel making. The country has already implemented significant policy framework to further expand its automotive manufacturing industry which again a growth engine for many industrial gases of interests of AWIPL.

Healthcare in India again offers a huge headroom. AWI registers 26% of its revenue from healthcare segment and automatically offers an opportunity for AWIPL to offer those solutions to Indian healthcare industry leveraging its current relationship with healthcare industry in terms of medical oxygen & other gases. Not but not the least is the Semiconductor & Electronics which is the sunrise industry for India. AWIPL is contemplating to serve this industry segment with Helium, Speciality Gases & Chemicals.

SIS: What are the key trends and challenges currently facing the industrial gas sector in India, and how is AWIPL positioning itself to address these?





KM: The most important challenge to the industrial gas space is likely to come in the form of dearth of skilled resources across the industry. The challenge of increased power demand thereby leading to a substantial increase in the power cost comes as a close second considering Industrial gas 's requirement of power is extremely high. AWIPL therefore is looking to harvest the power of renewable energy sources like solar.

Customer and Community Engagement

SIS: How does AWIPL maintain strong relationships with its customers and ensure their needs are met consistently?

KM: AWIPL's primary competitive advantage lies in our unwavering commitment to customer centricity and our focus on delivering exceptional value. We place our customers at the heart of everything we do, ensuring that their needs and expectations drive our business strategies and operations. By closely understanding and anticipating customer requirements, we tailor our solutions to provide maximum benefit and satisfaction.

In addition to our customer-focused approach, we are dedicated to creating substantial value through innovative solutions, efficient operations, and superior service quality. Our emphasis on value creation involves continuously improving our offerings, investing in advanced technologies, and maintaining a high level of operational excellence. This dual focus on customer satisfaction and value generation not only differentiates us from our competitors but also strengthens our position as a leading player in the industry.

SIS: Can you discuss any CSR initiatives or community engagement programs that AWIPL is involved in?

KM: Air Water India is dedicated to enhancing learning opportunities, skill development, and creating sustainable communities, while also providing employment opportunities to empower individuals. While our CSR initiatives in India primarily align with UNSDGs #4 (Quality Education) and #6 (Clean Water and Sanitation), we frequently extend our efforts beyond these goals. We actively engage in various activities that deliver value to communities across the country. We firmly believe that our growth is deeply connected to the advancement and well-being of the communities in which we operate.

Future Vision and Goals

SIS: What are AWIPL's short-term and long-term goals, both in terms of business growth and its contributions to the Indian economy?

KM: New Horizons- With manufacturing facilities across the country, we are positioned to add more to our existing capabilities with our upcoming plants at Durgapur for 1250 TPD, Jamshedpur 1800 TPD and 230 TPD ASU plant at Chennai. The journey does not stop there as we aspire to add more to our portfolio of offerings.

Exploring opportunities for helium in the gases space, adding new services in medical and safety domains, harnessing the capabilities of bio-methane as a source of

alternate energy are just a few where Air Water India is keen to explore.

Beyond business- It is not all about conventional business at AWIPL. We are conscious of the impact that businesses like ours have on the environment. Reducing carbon footprints is therefore a focus for the larger group (Air Water Inc). Air Water Inc & its US subsidiary TOMCO Systems offer Carbon Capture & Utilization (CCU) solutions which AWIPL is contemplating to offer in the Indian market.

In addition, we are attempting to leverage the power of solar energy to reduce the exponential demand for overall power that our industry consumes.