

Bry-Air

dryfacts

...from BRY-AIR



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Our Next Milestone : Our New Corporate Office and Manufacturing Facility



We are almost ready with our new (additional) manufacturing facility which will, in this first phase, have 55,000 Sq.ft. (about 5000 Sq.meters) of total covered area, of which about 20% has been developed to house our (Pahwa Enterprises) corporate office.

Plant Dedication on March 22, 2002

We are scrambling to complete the above for a plant dedication on Friday March 22, 2002. We would like to take this opportunity to thank you, our partners in progress, for the continuous support and encouragement received, enabling us to come this far.

A Brief Recap of Bry Air's progress

Bry Air (India) was founded in 1981 as the first Indo US joint venture in the small-scale sector. On February 28, 1983, the then US Ambassador, H.E. Mr. Harry G. Barnes, inaugurated the 22,000 Sq.ft. Bry Air (India) facility.

On 27th September 1985, Richard Celeste, the then Governor of Ohio, alongwith the then US Ambassador to India, H.E. Mr. John Gunther Dean visited our plant with the business delegation from Ohio, and inaugurated the new production line for the manufacturing of "Heat Pipes", the space age technology for satellites, and now also for general industry.

On February 10, 1987, Mr. Richard Celeste, as the then Governor of Ohio, once again visited our facility and laid the foundation stone for its phase two expansion.

On April 10, 1996, the then Governor of Ohio, H.E. Mr. George V. Voinovich laid the foundation stone for our second plant.

Today, we have three manufacturing facilities, all in the vicinity of Udyog Vihar, Gurgaon, and with the new 55,000 Sq.ft. facility that we wish to inaugurate on March 22, 2002, we would have expanded to an overall of about 135,000 Sq.mt. manufacturing here in India.

During the course of our growth, Bry Air (Asia) has also set up a wholly owned subsidiary in Malaysia, which was inaugurated on May 20, 1991 jointly by H.E. Mr. Paul Cleveland, US Ambassador to Malaysia, and H.E. Mr. R.S. Rathore the Indian Ambassador to Malaysia.

From our modest beginning, in 1983 Bry Air has come to be recognised as the leading player in the field of environmental control, head quartered in India, covering the entire Asian region, from Far East to West Asia, and also Africa.

Bry Air (Asia) is an excellent example of continued and strong partnership of over 20 years, between an Indian and a US SME.

Coming together with all our co-workers, customers and business partners - to show we care, we are committed



Providing Dry-Air at Victoria Memorial Hall, Kolkata, India



Victory Memorial

Lord Curzon, Queen Victoria's last Viceroy in India, erected the Victoria memorial as a period museum of medieval and modern Indian history on the death of the Queen in January 1901.

In less than half a century the memorial to the Queen became a memorial to the Raj itself.

The Memorial houses a very fine collection of paintings, sculptures, Weapons, manuscripts, documents, maps, coins, stamps, textiles, artefacts, and various other memorabilia of the Raj of the Indian response to it.

To the layman this marble memorial is a British imitation of the Taj, which too, had been built in memory of a Queen.



The Light & Sound Show at the Victoria Memorial traces the history of the British Era.

The show is combination of audio and visual imagery created by light. Modern audio visual equipment aided by computers, floppies, CDs, etc. aid the presentation of the show.



However, Victoria Memorial Hall, Kolkata, India was unable to run their light & sound show on regular basis due to moisture problem in their control room. Moisture condensed on equipment and also floppies, films, CDs, etc were damaged due to fungus growth.



The administrators at the Victoria Memorial initially tried to solve the problem by the conventional route, i.e. by installing a window air conditioner for maintaining temperature of 25°C without controlling any of relative humidity. (It is often assumed only airconditioning or rather, lowering the temperature can control humidity effectively.)

This did not solve the problem and then the Airineers were contacted for a solution.

The Airineers after studying the problem suggested installation of a dehumidifier in conjunction with the air conditioner. Thus, a Bry-Air Compact, desiccant dehumidifier was installed to maintain condition of : 45±5% relative humidity at 25°C in the Control room of the light & sound show.

Needless to mention that all condensation and moisture related problems evaporated and Victoria Memorial saved a lot in this process.

A royal task

This is the story of a princess who was faced with a dilemma of how to preserve her collection of priceless books from ageing and harmful effects of moisture/humidity.



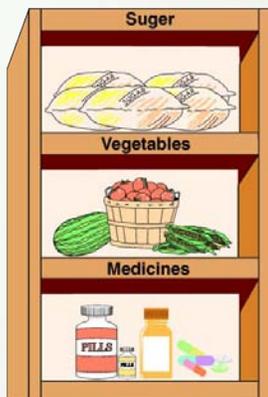
This is not a fairy tale, but a recent problem faced by the Royal Princess of Thailand. An avid reader, she has a vast collection of books, some of which date back 200 years. To safeguard her treasures, a library was built for the personal use. The Royal Princes Library, situated on Rajechddumnien Road, occupies two buildings measuring 3,200 square metres. To maintain the ideal environment for the books, humidity and temperature control was designed for 50% RH at 75°F. 38 Bry-Air compact dehumidifiers were installed to maintain the correct humidity inside the buildings.

Books, historic documents, photographs and art works are all hygroscopic because they have paper as the organic base material. When they absorb moisture, they provide a base for microorganisms to multiply and breed, causing irreparable damage. Bry-Air dehumidifier provide a low humidity environment which prevents microbial attack. The dry air is often enough for preservation without necessarily involving temperature control.

WHEN MOISTURE IS TORTURE !

In this column we will share with you regularly our experience on major application areas where usage of dehumidification is both extensive and essential.

Bry-Air Helps the Indian Air Force to Store Rations !!



The defence services need to store a large quantity of rations for their personnel wherever they have a post.

Few years ago the 16 Wing, Hasimara (WB), IAF (Indian Air Force) contacted the Airineers for a solution to the problem of storage of ration, mainly sugar. They were

storing a large quantity of sugar which was being spoilt (lumping, caking, etc.) due to uncontrolled humidity in the Ration Storage Area. The solution was provided by installing a Bry-Air Dehumidifier in the area to control humidity 35+/-5% RH at a temperature little over ambient.

Air Force Stations at Rouriah, Jorhat, Kalaikunda, Tezpur, Chhabua, Guwahati, Bagdogra, Shillong, India are following suit. 7 Nos. of units has already been installed, another 15 are likely to be installed at near future.

Apart from storage of sugar there has been requirement for humidity control in storage area of flying gear, to dry the sweat and discomfort to the next users.

INDIAN NAVY ALSO NEEDED PROTECTION FROM MOISTURE

The Airineers received a similar request for solution from the Base Victualling Yard, Navy, Port Blair for salt & sugar storage.

Corrosion/Spoilage of Stored Material

In general storage where warehousing or permanent structure is available for storage, material has still to be preserved from **organic and inorganic corrosion**.

Inorganic corrosion takes the form of rust. Military hardware and equipment in storage as **War wastage reserves, tanks, missiles, ammunition, gearboxes, engines**, even replacement parts and stores are highly susceptible to changes in humidity and consequently rusting and corrosion.

All military equipment is high valued and must be available for operation at any moment. Storage of steel or metal products presents major problems where air is humid and there is a big variation in temperature during the 24 hours

day causing condensation at times. In such circumstances corrosion sets in, deteriorating the quality of material.

Controlling relative humidity below 35% RH prevents rusting and corrosion - i.e. inorganic corrosion.

Organic corrosion is caused by the growth of micro organism on organic and inorganic material leading to decomposition and mechanical weakening of the products. Spoilage due to mold, mildew and fungal decay of stored **uniforms, leather**

boots, batteries, tyres, maps, records, films, documents, microfilms, foodstuffs and rations result

due to condensed moisture on stored material. Temperature fluctuation can produce wide ranges of humidity leading to condensation and provides a base for organic corrosion to set in.

Hygroscopic raw material storage requires humidity to be controlled between 35% to 40% as this will prevent moisture regain and consequent spoilage of the product.

Deterioration of ammunition, Ammonium Nitrate, solid fuel takes place rapidly on being exposed to humid conditions. If the humidity goes above a critical level the material will absorb moisture causing agglomeration and rendering it useless. Substance like Ammonium Nitrate in presence of high humidity becomes highly explosive.

The demand of a good storage system is maintaining of objects and machinery in 'as is'. Bry-Air equipment fulfills all criteria of good storage - availability, reliability, low energy costs, protection in all climates. Bry-Air dehumidifiers have been successfully controlling humidity in long and short term storage of military equipment.



thank you for overwhelming response to our products at



Encon '2001, India



CoolTech '2001, India



Plastivision '2001, India



Pharma Expo (53rd IPC) '2001, India



ACREX '2001, India



FEBRAVA '2001, Brazil



HVAC '2001, Malaysia



RAVA '2001, Indonesia

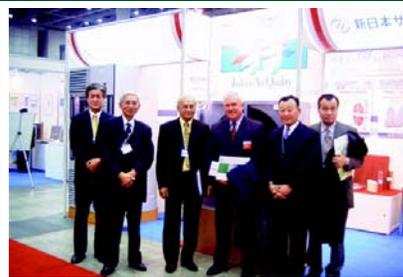


China Pharma '2001



Big 5 Show '2001, Dubai

FFB Launch in Japan at Tokyo



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