

# dry facts

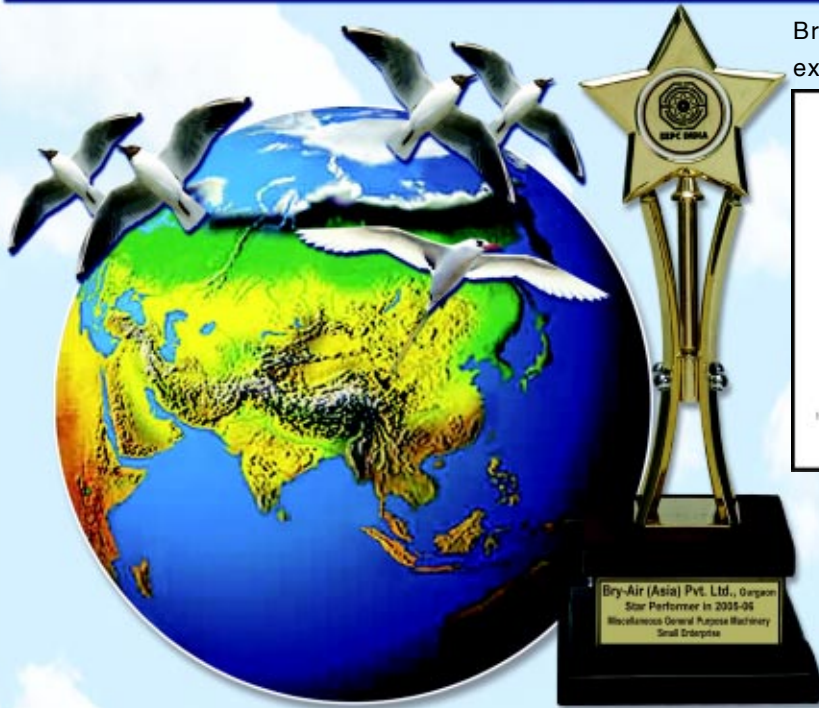
from **Bry-Air**  [www.bryair.com](http://www.bryair.com)

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## **Bry-Air** - a "STAR performer"

Bry-Air wins the EEPC all India award for export excellence for the year 2005-2006.



### ALL INDIA AWARDS FOR EXPORT EXCELLENCE 2005-06

*Bry-Air (Asia) Pvt. Ltd., Gurgaon*

is presented

**the Star Performer (Small Enterprise) Award**

in the product group

"Miscellaneous Special Purpose Machinery

(including Metallurgy, Food and Textile) and Parts"

in recognition of its outstanding contribution to Engineering Exports

in the year 2005-06

1st June 2007  
New Delhi



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Recognized worldwide as a solution provider for all humidity/moisture problems faced by industry, Bry-Air is now readying to establish its foot prints in Europe.



**Bry-Air**  
China Plant  
starts  
operation



## Who would expect a plush futuristic high tech office to be plagued with a problem typical to process industries !!

That is exactly what the super modern IT/ITES service offices of 3G Global services, Mindspace located in the premium Malad area of Mumbai, were facing.

The buildings, in this area are primarily occupied by call centres of financial services, telecom services, etc. i.e. the service industry, operates 24 x 7.

Computer systems and servers were constantly breaking down disrupting work and resulting in loss of business. To add to the woes, people working in the offices were extremely uncomfortable leading to loss in productivity.

**The Culprit :** Built on landfill site, the building had a large open drain carrying untreated waste/sewage water to the back-waters of Arabian Sea running right next to it.

Thus, the whole area was blanketed with an obnoxious, foul odour. The odours were primarily due to the presence of hydrogen sulphide gas in methane, which is continuously generated due to the gradual degradation of organic material in the sewerage and the landfill. (Methane, on its own has no odour and thus, is not considered as a contaminant).

### Facts of the Case

- Multi-storied buildings designed to meet current as well as future needs.
- Centrally air conditioned with AHUs on every floor.
- Chilled water fed AHUs with the supply air being ducted while the return air is free flow.
- Each AHU room has a fresh air intake point, provided with a damper, which sucks in outside fresh air due to strong negative draft present in AHU room.
- The HVAC design of almost all the buildings cater for a 10% fresh air intake.

Plagued with this odorous and corrosive problem, many offices in the building had the air analyzed by an independent testing service. The “Corrosion Classification Coupon” test, conducted showed a corrosion

potential @ 20,000 angstroms on a 30 day schedule, equivalent to 500 ppb clearly indicating GX Air Quality (severe category).

Extracts from the report showing approximate contamination levels of only the corrosive elements :

Pollutant	Maximum Concentration (in PPB)
Hydrogen Sulphide	500
Sulphur Dioxide	200
Oxides of Nitrogen	125
Chlorine	20

The above figures, though very authentic, did not indicate the actual levels of the problems as nature plays a big role in adding to the woes :

■ **Wind directions :** If the wind direction is towards the building from the contaminant generation zone, then the after effects is quite contrary to the one when it's been the other way round.

■ **Fluctuation in concentrations in gaseous contaminants :** Hydrogen Sulphide emission from the landfill peaks when the temperature and humidity is high and carries on till the land mass is relatively warm. Hence, the ‘rotten egg’ smell starts off by mid afternoon and continues till

late evenings. During the summer months, the emissions are significantly higher.

### The Solution :

Having identified the culprit, the building management contacted the *Airgineers* at Bry-Air.

After studying the problem and space constraints, Bry-Air customized its **EcoScrub** Air & Gas Purification System to purify the fresh air coming into the building through the AHUs.

**19 EcoScrub** units have been installed on the terrace. These units treat 54000 cfm of fresh air. All gaseous contaminants are removed before it enters the AHUs.

### A Breath of Pure Air !

Computers no longer break down due to corrosion. People are breathing pure and clean air. No odour. No corrosion.

The air quality is of G1 class (least corrosion rate) inside the facility.

### Freeze in Mindspace commercial area

Ever since news on the noxious gas emanating from the untreated waste and garbage in the Mindspace complex in Malad has broken out, all lease sale deals in the upscale commercial area have halted. The C L F developed project, spanning more than 100 acres along the New Link Road, all glass and steel today. Even when the low-lying land was reclaimed from the mangrove creeks in the 1998-2000 period, few knew it was wasteland gradually covered with garbage.

### WHAT THE STUDY SAYS

Shalini Nair TNN

● The site in Malad, which houses Mindspace, was not treated before the construction of the building; therefore, solid waste got decomposed slowly and during decomposition, it generated toxic gases like sulphur dioxide, oxides of nitrogen, carbon monoxide, hydrogen sulphide, methane and mercaptans.

● These gases rise through crevices and corrode silver & copper parts in computers and air-conditioners.

● Since there was no post-closure management, the leachate generated from this waste contaminates groundwater as well as soil.



# 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.

## Corrosion free safe storage of aircraft components !!



### Effect of Moisture/Humidity

Uncontrolled humidity/moisture is the single major cause for all losses of high value and critical aircraft components while in storage. This leads to a huge financial loss as well as can lead to accidents resulting in loss of human lives. Aircraft components can be safeguarded against damaging effects of excess humidity by controlling the moisture levels to less than 50% RH at ambient condition in the room or in conjunction with an air-conditioner, if the component needs temperature controlled environment also.

### The **Bry-Air**® Solution

The simplest and most cost effective method to control humidity is to install Bry-Air Dehumidifier which can maintain RH as low as 1% or even lower at a constant level, during production, processing, storage and packaging.



### Taikoo Aircraft Engineering depends on **Bry-Air**®

**Taikoo Aircraft Engineering Co. Ltd (TAECO)**, a venture between Japan Airlines, Cathay Pacific Airways, Boeing Co, Hong Kong Aircraft Maintenance Engineering and other Chinese aviation companies, has their facility in Xiamen. Starting in March 1996 with two B 747-bays, TAECO has expanded to cater to six wide body aircraft and three narrow body aircraft for heavy maintenance simultaneously, each equipped with complete independent docking systems. **TAECO's** high level of quality and workmanship has brought success over the years.

**Bry-Air has been TAECO's preferred dehumidifier supplier for every project where dehumidification was needed due to their reliability, efficiency and economically sound concepts and products.**

**TAECO uses 25 units Bry-Air Dehumidifiers, supplying dry air to the facility close to 100,000 CMH !**



### AAI also opts for **Bry-Air**®

Airport Authority of India (AAI) has installed new instrumentation at Kolkata airport to ensure that aircrafts can land and take off at a visibility of 500 meters. Earlier 'landing' and 'taking off' of Aircrafts could not take place if the visibility was below 1000 meters. AAI has opted for Bry-Air's compact dehumidifiers, FFB series (weather proof models) to maintain required humidity conditions, 50% at  $18 \pm 2^\circ\text{C}$ . Bry-Air is installing the dehumidifiers in the following areas :

1. **Localiser** : Helps the pilot to approach 'landing' at optimum angle after measuring wind velocity and direction.
2. **Reciprocal Glide Path** : Similar to above but for 'take off'.
3. **Glide Path** : Helps the pilot to bring the Aircraft at a desired angle at a run way.
4. **Middle Maker** : Helps the pilot to bring the Aircraft in the middle line of the run way before proper landing.

Bry-Air Dehumidifiers are being used regularly by AAI in its radar communication and instrumentation rooms.





## Bry-Air® representative in Bangladesh

Minar is led from the front by its dynamic Managing Director, Mr. Syed Minarul Islam.

Mr. Syed Minarul Islam is also a senior organising committee member of Bangladesh Pharma Association, organizer of Asia Pharma Expo.

Minar is a leading trading house in Bangladesh providing indenting services to more than 29 companies of International repute like Aventis Pharma S.A., France, Cadila Pharmaceuticals Ltd., India, Dr. Reddy's Laboratory/Holdings, India, etc.

Minar has expanded its services over the years to be recognized as one of the most respected and largest import and marketing houses.



Bry-Air at Asia Pharma Expo.

**Thanks to Minar's support, there is a large and growing population of Bry-Air Dehumidifiers in Bangladesh.**

Most large and respected companies and consultants in Bangladesh, today, depend on Bry-Air dehumidifiers to provide a cost effective solution to their humidity problems. They have opted for Bry-Air for the product quality as well as the excellent after sales service provided by Minar Associates, supported by the Bry-Air Kolkata office.

### Some of Bry-Air's happy customers and associates in Bangladesh



#### Pharmaceutical

- ☞ Square Pharma ☞ Beximco Pharma ☞ The ACME Laboratories ☞ Glaxo Smithkline ☞ Globe Pharma
- ☞ IBN Sina Pharma ☞ Incepta Pharma ☞ Pacific Pharma ☞ Oponin Pharma

#### Preferred by HVAC Consultants for Pharmaceutical Industry :

- AVE Engineers & Consultants Ltd. ● Utility Professionals.



**Bangladesh Agricultural Development Corporation (BADC) has over 30 nos. of Bry-Air FPU-1000 desiccant dehumidifiers for seed storage.**



**Bangladesh Navy opted to have Bry-Air dehumidifiers for storage of ammunition in Chittagong.**

#### Chosen by large Airconditioning Companies :

- Penguin Engineering Ltd ● Confidence Trade Ltd ● Aziz & Co.
- Haroon Engineering Ltd.



For solutions to humidity problem in Bangladesh.

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