

Application Industry Case Study

Corrosion Prevention *at* HCL Technologies



OVERVIEW

Country : India

Location: Noida

Industry : IT

Client Name:
HCL Technologies

Application area:
Server Racks

HCL TECHNOLOGIES LTD.

HCL Technologies is a leading global IT services company. Although HCL is just a three-decade old enterprise, HCL Technologies was formed 12 years ago, in 1998. Its range of services include R&D and Engineering, Custom Applications, Enterprise Applications, IT Infrastructure Management, and BPO Services.

The Problem

Computer / Electronic Failure due to the presence of Hydrogen Sulphide Gas in the surrounding environment due to nearby large drain.

The Source of the problem

The source of the problem was an open drain containing untreated waste/sewerage water which blanketed the whole area with an obnoxious, foul odour. The odours were caused by 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 land fill. (Methane, on its own has no odour and thus, is not considered as a contaminant). This was causing break down of computer systems and servers, disrupting work and resulting in loss of business. To add to the woes, people working in the plush air conditioned HCL office were feeling extremely uncomfortable leading to loss in productivity.

Furthering the problem was the wind direction. 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

Typical Industries requiring Air and Gas Purification:

Corrosion & Toxic Gas Control

- Paper and Pulp
- Petrochemicals
- Oil Refineries
- Cement
- Fertilizer
- Iron and Steel
- Chemical
- Textile
- Power Generation
- IT/ITES
- Media Houses

Odour Control

- Pharmaceuticals
- Leather
- Food Processing
- Sugar
- Sewage Treatment
- IT/ITES

Degradation Control

- Museums
- Libraries

Ethylene Removal

- Post Harvest Facilities

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.

Bry-Air Airineers helped HCL solve the problem of Electronic Corrosion and provided comfortable working environment for staff with EcoScrub inside

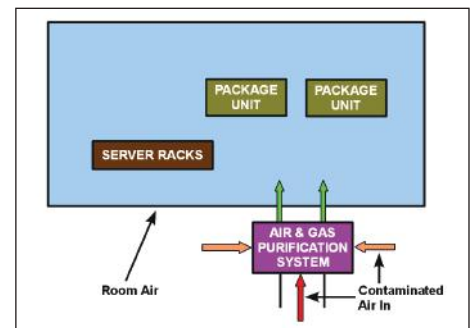
Bry-Air Airineers helped HCL Technologies solve the problem of frequent server/computer failures by installing EcoScrub. Fresh air pressurized the room and recirculation air cleaned the room air.

Computers no longer break down due to corrosion. The air quality is of G1

class (least corrosion rate) inside the facility.

The deep bed units are self-contained units incorporating all particulate filters, chemical filters and supply fan. The unit sucks the outside air where dust is removed with the help of particulate filters and various other gases are removed with the help of dry BrySorb special chemical filters.

Installation System Flow Diagram



Air & Gas Purification System (AGPS)
Removes Contaminated Air Most Economically

Bry-Air is one the leading business houses in India offering end-to-end energy-efficient environmental control solutions. It is a globally competitive organization pioneering in the areas of Humidity Control, Dehumidification, Drying, Storage, Preservation, Air & Gas Purification and Plastics auxiliaries. Bry-Air ventured in the Air and Gas Purification sector in 2001. Since then, we have effectively maintained optimum working conditions by removing contaminant laden air; the main cause for corrosion and uncomfortable working environments.



BRY-AIR (ASIA) PVT. LTD.
An ISO 9001:2008 & 14001:2004 Company

Visit us at
www.bryair.com

INDIA
Corporate Office:
21C, Sector-18, Gurgaon 122015
Phone: +91-124-4091111
Fax: +91-124-4091100
E-Mail: bryairmarketing@pahwa.com
Head Office:
20 Rajpur Road, Delhi 110054
Phone: +91-11-23906666
Fax: +91-11-23906600
E-Mail: enquire@pahwa.com
Web.: www.bryair.com

DELHI	+91-11-23906666
CHANDIGARH	+91-172-4678806/7
MUMBAI	+91-22-24935155/24947475
BARODA	+91-265-2351493
KOLKATA	+91-33-22814841/22814877
BANGALORE	+91-80-25271232
HYDERABAD	+91-40-27154243
CHENNAI	+91-44-26287231/26203830
KOCHI	+91-484-4052940

E-mail	enquire@pahwa.com
	bryairchandigarh@pahwa.com
	bryairmumbai@pahwa.com
	bryairbaroda@pahwa.com
	bryairkolkata@pahwa.com
	bryairbangalore@pahwa.com
	bryairhyderabad@pahwa.com
	bryairchennai@pahwa.com
	bryairkochi@pahwa.com

BRY-AIR (MALAYSIA)	
International Marketing Division:	
Phone	+60-3-89256622
Fax	+60-3-89259957
E-Mail	bryair@bryair.com.my
Domestic Marketing Division:	
Phone	+60-3-77259919
Fax	+60-3-77259957
E-Mail	bam@bryair.com.my
Website	www.bryair.com.my

BRY-AIR (CHINA)	+86-21-51591555
BRY-AIR (UAE)	+971-6-5574622
BRY-AIR (AFRICA)	+27-11-6150458
BRY-AIR (AUSTRALIA)	+61-8-92762307
BRY-AIR (EUROPE)	+49-40-54716250
BRY-AIR (THAILAND)	+66-2-5415479
BRY-AIR (KOREA)	+82-2-4140629
BRY-AIR (TURKEY)	+90-216-4175010
BRY-AIR (PHILIPPINES)	+632-8078436
BRY-AIR (INDONESIA)	+62-21-45846579
BRY-AIR (VIETNAM)	+848 38300 158

E-mail	bryairsh@bryair.com.cn
	info@bryair.ae
	bryairafrika@telkomsa.net
	sundermalkani@bigpond.com
	info@a-und-h.de
	thailand@bryair.com.my
	drikorea@hanmail.net
	cagdan.yilmaz@pahwa.com
	mail@bryair.com.ph
	Indonesia@bryair.com.my
	vietnam@bryair.com.my

Website	www.bryair.com.cn
	www.bryair.ae
	www.bryair.co.za
	www.bryair.com
	www.a-und-h.de
	www.bryair.com.my
	www.drikorea.co.kr
	www.bryair.com
	www.bryair.com.ph
	www.bryair.com.my
	www.bryair.com.my