



**KHAN BROTHERS**



Application Note: **Punjab Forensic Science Agency,**

**Thokar Niaz Baig, Lahore. December 2012**

Project: Punjab Provisional Government Consultant: SES Consulting Engineers Contractor: HA Construction

#### INTRODUCTION:

Overall purpose of this project is to establish an international standard, well equipped, state of the art, full service forensic science laboratory at Lahore. On its operation, the laboratory will support criminal investigations by providing forensic analysis. It will also assist the legal matters of interest. The laboratory will work under the Forensic Science Agency within the framework of the Punjab Forensic Science Agency Act. 2007.



#### REQUIREMENT:

To provide a well-managed, 24-Hour High Blast Axcentrix Fume Exhaust Fans Package with tendency of exhausting toxic fumes into the air at high velocity that it can't re-enter the vicinity of the lab again and also, to reduce the toxicity of those fumes with dilution to avoid environmental hazards and ease of installation and approach to critical components for after sales/repairing WITHOUT contamination, Khan Brother's offer of Greenheck fans was selected because of these reasons plus many more. This Lab is BSL-03 level and this system is already running at a Laboratory in Singapore.

#### SYSTEM:

Greenheck application engineering gave full technical support to the consultant. The proposal has been reviewed by SES Consulting Engineers and Project Director. After several Technical meetings the proposal was approved. To keep the environment contamination free the system is based on duplex fans - one operating and one standby with built-in automatic switchover during failure of operating fan.



## COMMISSIONING:

Total three fan-sets have been installed and commissioned as per promised performance and they are running according to requirements of Punjab Forensic Science Agency. The performance of these fans can be controlled through BMS Systems. At this facility different criminal investigations are done on different evidences at high scales and levels by the usage of different toxic chemicals beyond imagination and these fans have been installed to exhaust toxic fumes of chemicals. They want to have an environment where not only the workers can work in safe environment by keeping the air clean and breathable, but also an environment where evidence can sustain in its original form apart from tempered by dust in atmosphere.

