



In the name of Allah

The Most Beneficent and the Most Merciful

Network Meeting 2004
Male Declaration on Control and Prevention of Air
Pollution and Its Likely Transboundary Effects for South
Asia

Pakistan Country Report

By

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Director (EIA/Mont.)

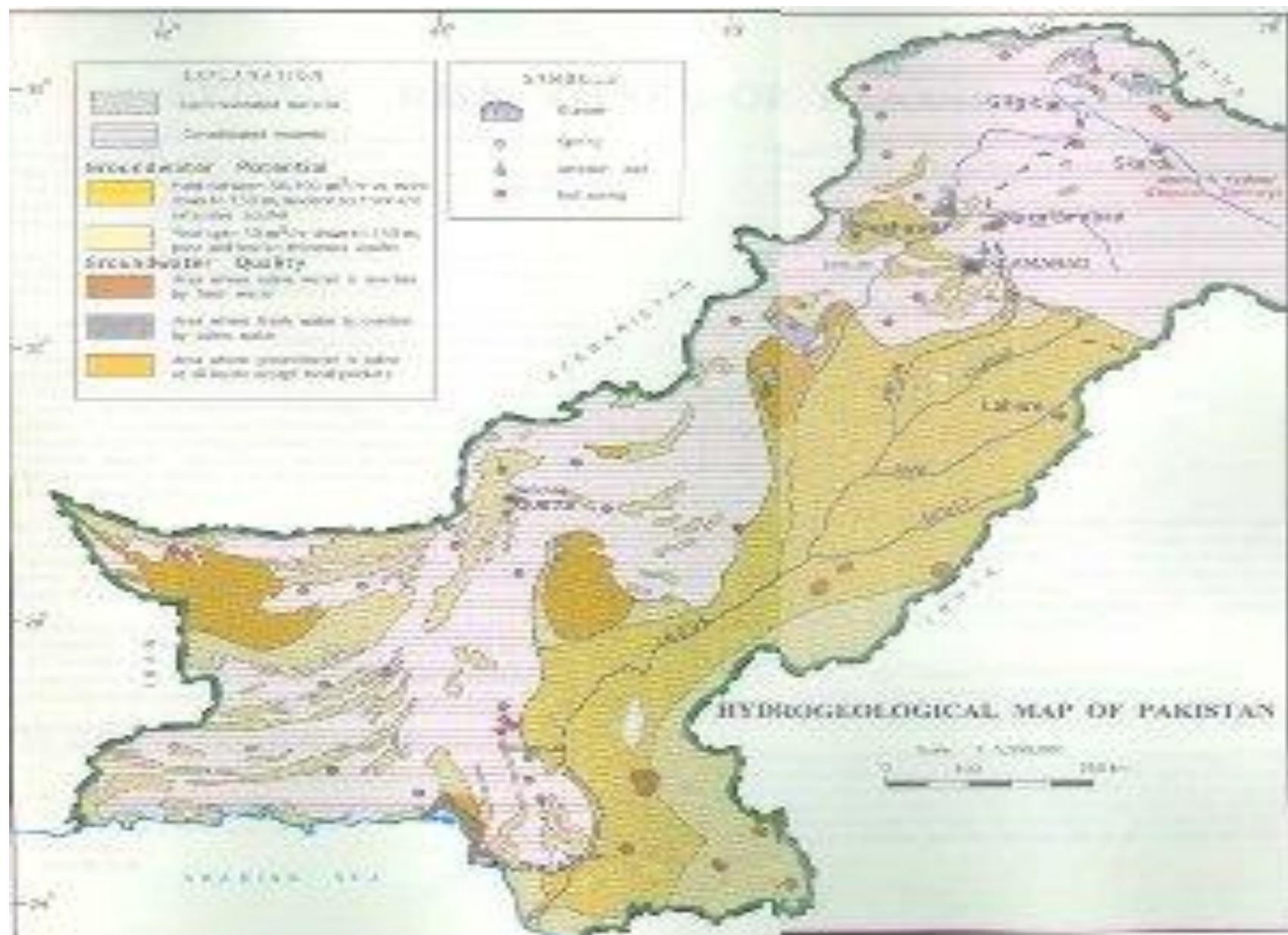
Pakistan Environmental Protection
Agency (Pak-EPA)

Ministry of Environment

11-12 October, 2004 in Tehran, Iran

Sequence of Presentation

- **Implementation Status : Male Declaration Phase II**
- **Ambient Air Quality situation**

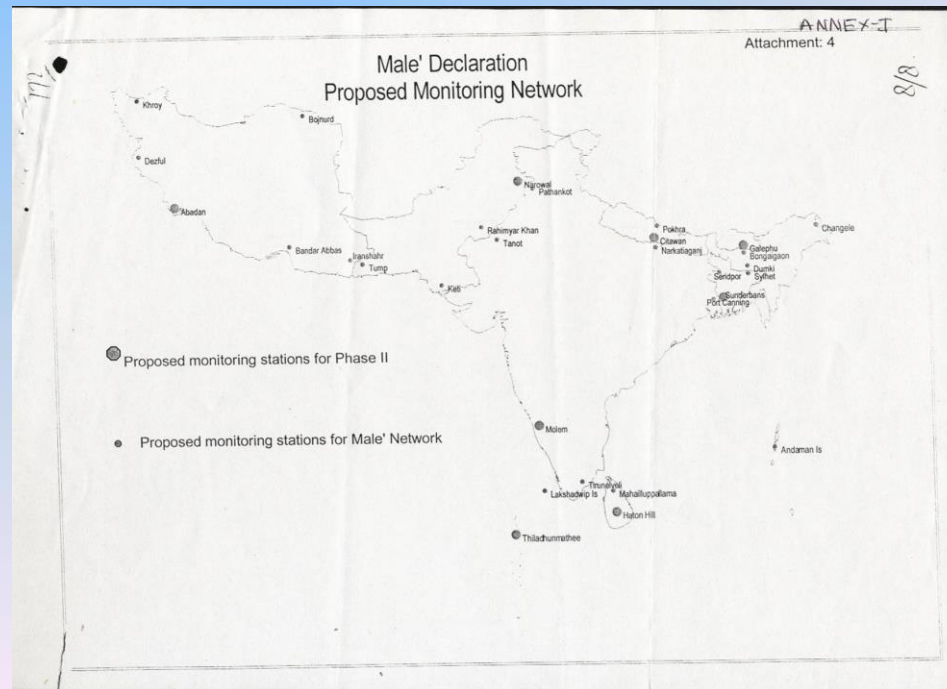


Phase II Implementation of Male Declaration on Control & Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia

- **Implementation Status**

Phase II Implementation of Male Declaration on Control & Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia

- UNEP proposed Narowal for monitoring station in Pakistan

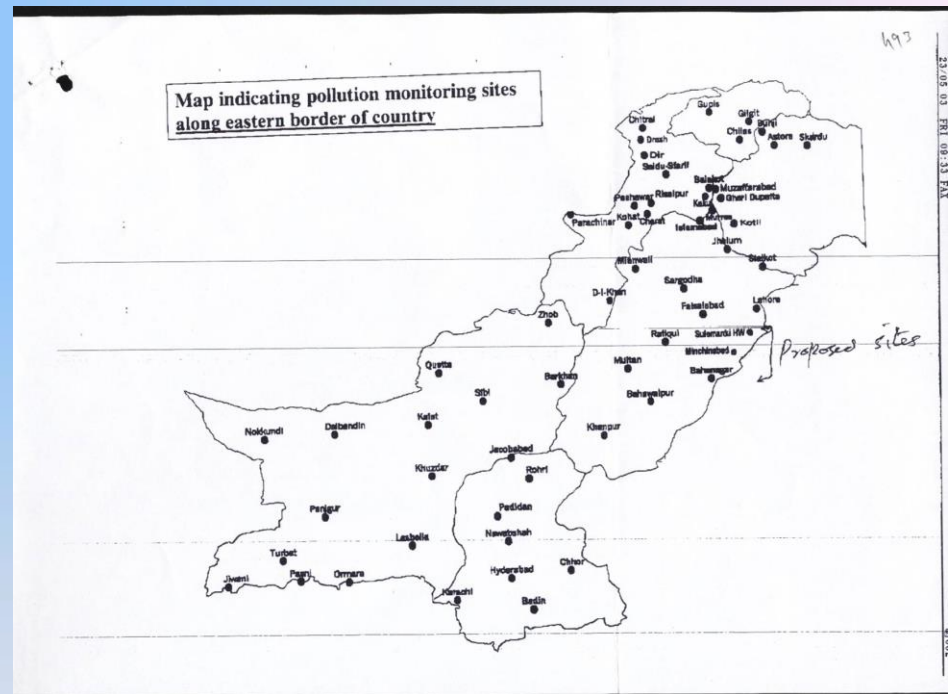


Phase II Implementation of Male Declaration on Control & Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia

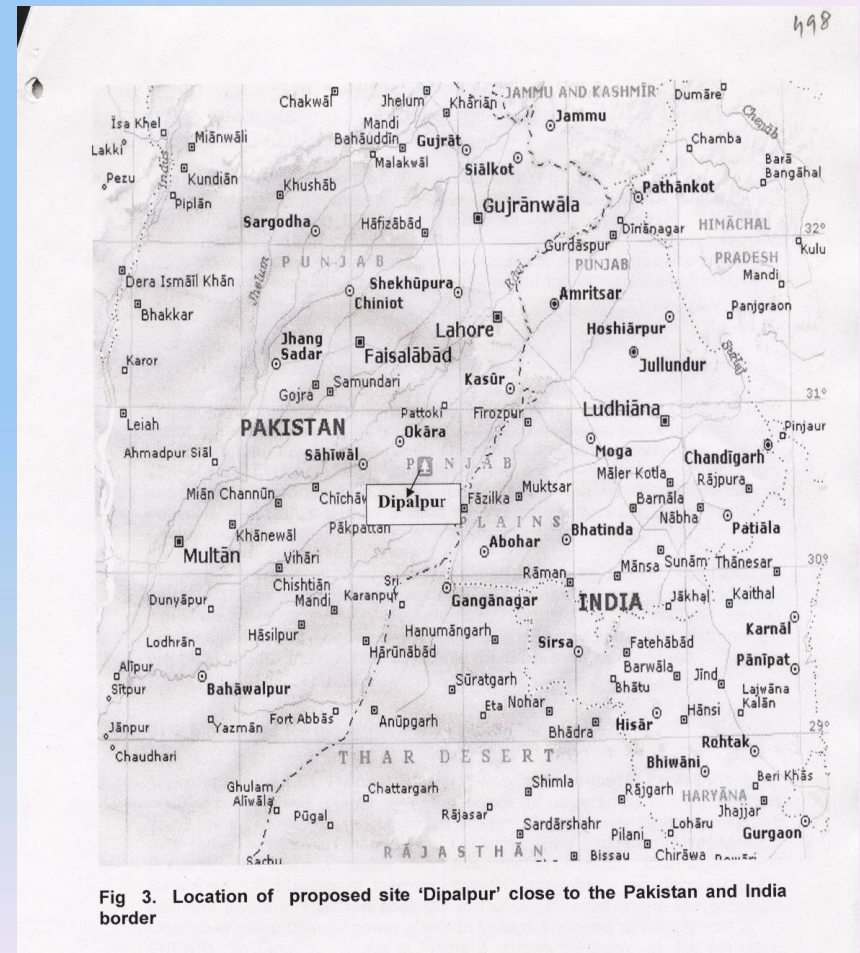
- The matter was referred to for security clearance of the proposed site.
- The security agencies requested for following details:
 - a) Rational for selecting Narowal as monitoring station;
 - b) Whether foreigner will stay /visit the monitoring station;
 - c) Type and lay out of monitoring station including type of construction;
 - d) Exact location of the site (longitude/latitude);
 - e) Bio-data of foreigners/ Pakistani to be employed at the project/
station

Phase II Implementation of Male Declaration on Control & Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia

- The position was clarified. However, the security agencies asked for alternate sites.
- The options for alternate site were discussed with Pakistan Meteorological Department. Accordingly they suggested:
 - Minchinabad
 - Sulamanki Headwork
 - Bahawalnagar



- Pakistan Space & Upper Atmosphere Research Commission (SUPARCO) suggested Depalpur (District Okara)

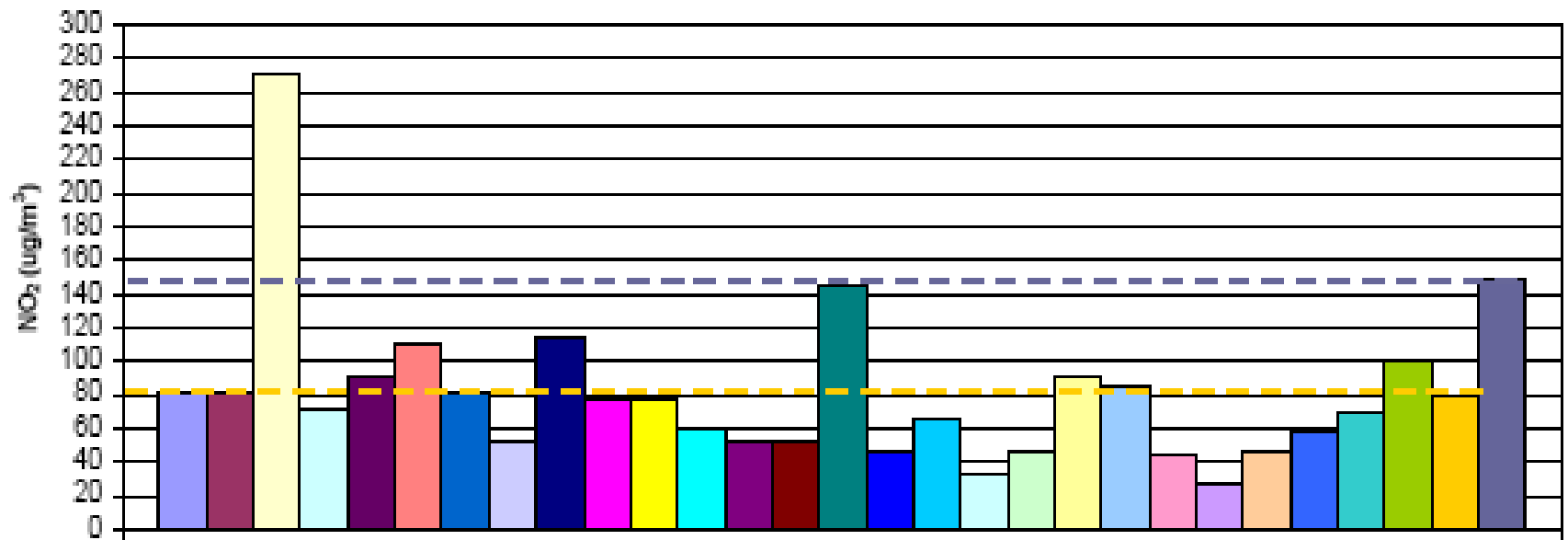


Phase II Implementation of Male Declaration on Control & Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia

- The alternate sites have been informed to the Security Agencies with the request to give clearance.
- The decision in this regard is still awaited.
- Meantime Pak-EPA being NIA making necessary arrangements for transfer of funds and equipment through UNDP.

Comparison of NO₂ Concentrations in ambient air at different locations in Lahore with International Standards

24 hours Average



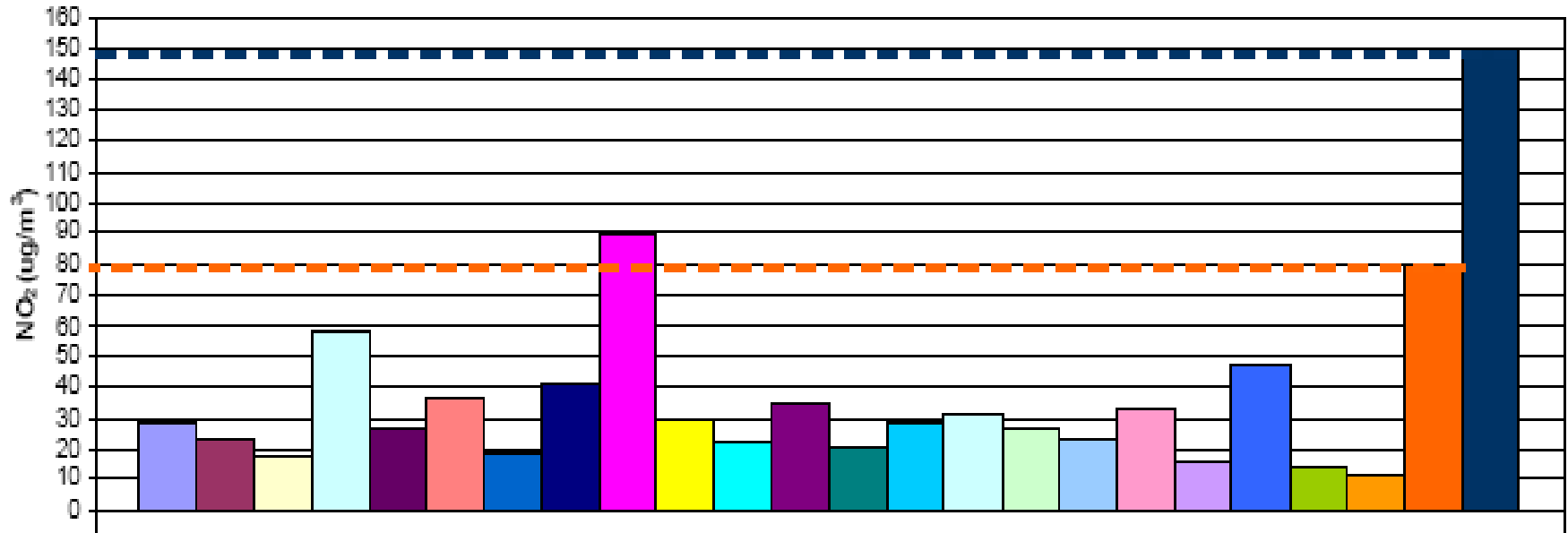
- | | | |
|---------------------------|----------------------------|--------------------------------|
| Yateem Khana | Lohari Gate | Bhatti Chowk |
| Kalma Chowk | Azadi Chowk | Bank Square |
| Qurtaba Chowk | Main Boulevard Gulberg | Railway Station |
| Regal Chowk | Shadman Chowk | UET on G.T. Road |
| Opposite UET on G.T. road | Upper Mall | Chuburji Chowk |
| Lake road | EPD Head Office Luton road | Samanabad |
| Sham Nagar | Inside Lohari Gate | Missri Shah |
| Cantonment Area | Defence Housing Society | Shalimar Garden |
| Gulberg Industrial Area | Township Industrial Area | Industrial Workshop Dharampura |
| Japan | WHO | |

Table: NO₂ Concentration in ambient air at various locations in Lahore

| Locations | Sampler I.D. # | Distance from the Road | Absorbance Sample (A) | Absorbance Blank (A ⁰) | Exposure time (hours) | NO ₂ concentration | |
|-------------------------------|----------------|------------------------|-----------------------|------------------------------------|-----------------------|-------------------------------|-------------------|
| | | | | | | ppb | µg/m ³ |
| Road Side Area | | | | | | | |
| 1- Yateem Khana | 1 | 1 | 0.360 | 0.104 | 24 | 44.09 | 82.89 |
| 2- Lohari Gate | 3 | 5 | 0.353 | 0.104 | 24 | 42.88 | 80.62 |
| 3- Bhatti Chowk | 4 | 1 | 0.944 | 0.104 | 24 | 144.67 | 271.99 |
| 4- Kalma Chowk | 5 | 25 | 0.316 | 0.104 | 23 | 38.10 | 71.63 |
| 5- Azadi Chowk | 6 | 7 | 0.385 | 0.104 | 24 | 48.40 | 90.99 |
| 6- Bank Square | 7 | 2 | 0.446 | 0.104 | 24 | 58.90 | 110.74 |
| 7- Qutaba Chowk | 8 | 3 | 0.358 | 0.104 | 24 | 43.75 | 82.24 |
| 8- Main Boulevard Gulberg | 9 | 30 | 0.265 | 0.104 | 24 | 27.73 | 52.13 |
| 9- Railway Station | 10 | 2 | 0.456 | 0.104 | 24 | 60.62 | 113.98 |
| 10- Regal Chowk | 11 | 5 | 0.344 | 0.104 | 24 | 41.33 | 77.71 |
| 11- Shadman Chowk | 12 | 10 | 0.341 | 0.104 | 24 | 40.82 | 76.74 |
| 12- UET on G.T. Road | 13 | 10 | 0.272 | 0.104 | 22 | 31.56 | 59.34 |
| 13- Opposite UET on G.T. road | 14 | 15 | 0.263 | 0.104 | 23 | 28.57 | 53.72 |
| 14- Upper Mall | 15 | 7 | 0.269 | 0.104 | 24 | 28.42 | 53.43 |
| 15- Chuburji Chowk | 16 | 1 | 0.553 | 0.104 | 24 | 77.33 | 145.38 |

Comparison of NO₂ Concentrations in ambient air at different locations in Islamabad with International Standards

24 hours Average



- Office of Inspector Traffic, Abpara Chowk
- Rescue – 15 Office, off Faisal Avenue
- Police Kiosk near junction Faisal Avenue and Khyaban-Hqbal
- F – 9 Park Gate, Opposite F – 10 Markaz
- Traffic Kiosk, Opposite FIA Headquarter, 9th Avenue and Kashmir Road junction
- Police Kiosk near Shaheed-I-Millat Secretariat
- Out Barrier of OGDCL Building
- Police Kiosk, Junction of Agha Khan Road and Constitutional Avenue near Pak-Secretariat
- Back of Pak-EPA Building between Kalsoom and Alloy Plazas
- Islamabad College for Girls, F-6/2, School road
- IMCB, F-7/3, Islamabad
- Japan
- Police Kiosk at Convention Center Chowk, Opposite Serena Hotel
- Police Help Line Kiosk, Crossing Faisal and Jinnah Avenues
- Junction Kohistan Road / Khyaban-Hqbal, Zafar Check Post (NAVY)
- National Bank, G – 9 Markaz Branch
- Main Gate Entrance Ministry of Environment
- Main Entrance OGDCL Building
- Police Post, Opposite Super Market, F-6
- Pak-EPA Building on Fazal-ul-Haq Road
- Health Services Academy
- F-G. Junior Model School, F-6/1
- Mr. Mashashi ITO, House
- WHO

Suspended Particulates in air 2001-2003

µg/m³ Microgram per Cubic Meter

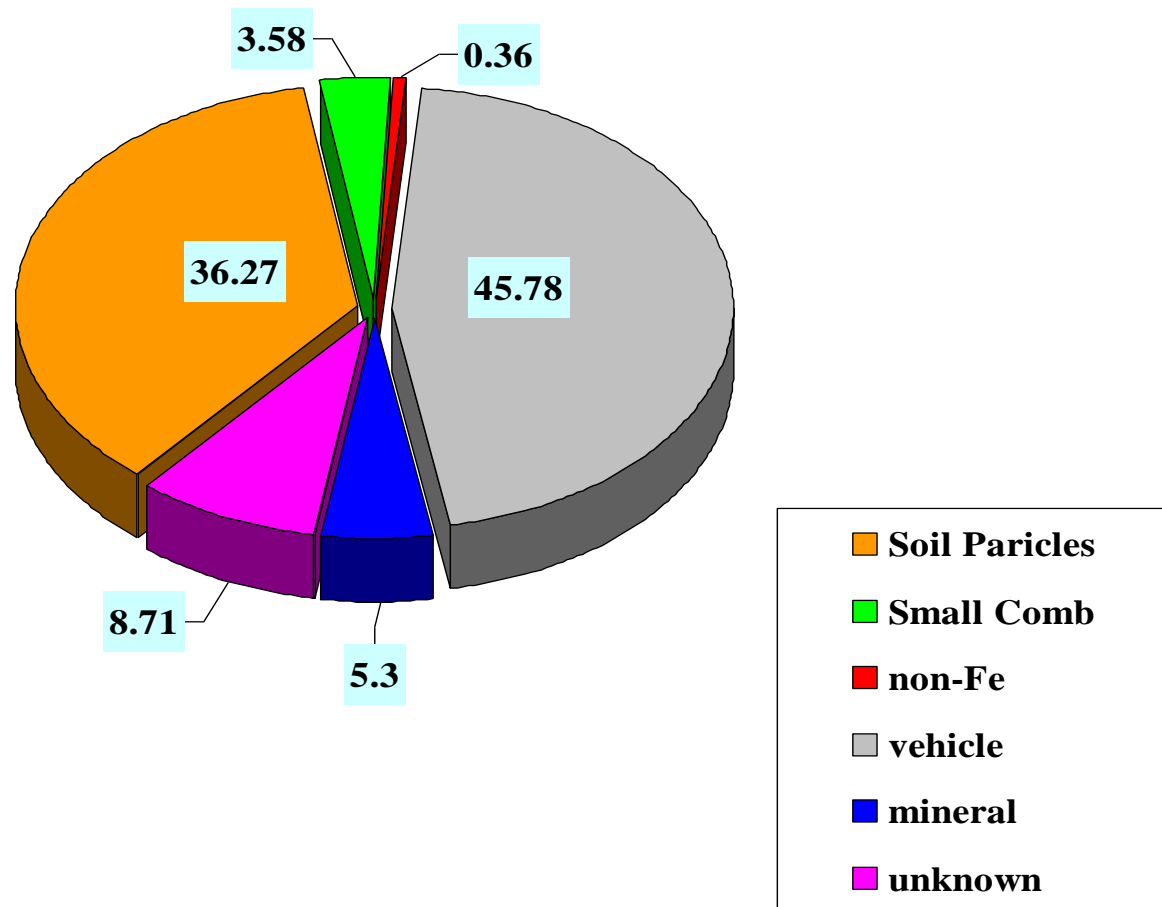
| | | |
|------------|------|--|
| Gujranwala | 5190 | (Baghbanpura Chowk 24 hours average) |
| Faisalabad | 3500 | (Mian Muhammad Trust Road at 12:00 -1:00 p.m.) |
| Lahore | 1550 | (Qurtaba Chowk at 12:00 and 10:00 p.m) |
| Rawalpindi | 1400 | (Pirwadhai at 10:00-11:00 p.m) |
| Islamabad | 950 | (Aabpara Chowk at 4 p.m) |

WHO Guidelines: 120 µg/m³

Japanese Standards: 200 µg/m³

A Typical PM10 Distribution

Baghbanpura, Gujranwala Year 2003



THANKS

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