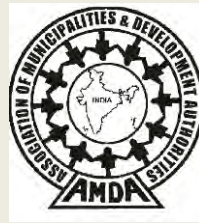




**Kolkata metropolitan
Development Authority**



**Association of Municipalities
& Development Authorities**



**Institute of Town
Planners, India West
Bengal, Regional
Chapter**

Workshop on

Urban Green Spaces

25th – 26th September, 2012

URBAN GREEN SPACES



Impact of Global Urban Scenario

- **50% of global population lives in cities**
- **In 1950, there were 86 cities having more than 1 million population**
- **By 2015, it is estimated that there will be 400 million plus cities**

Impact of Global Urban Scenario

- **Cities occupy 2% of earth's surface**
- **Consume 75% of natural resources**
- **Generate 80% of CO₂ emissions**

Impact of Global Urban Scenario

- **Extent of forest area is reducing due to**
 - ❖ **Increasing urbanisation**
 - ❖ **Indiscriminate felling**

URBAN GREEN SPACES



Urban Green Spaces

- **Urban greens are not only important from aesthetic point of view but are the main recreational spaces and also contribute significantly in mitigating the climatic change affect, optimization of energy use, conservation of water and control the pollutants in and around cities**
- **Urban greens should amount to 15-20% of the developed areas in towns and cities**

Forest /Tree Cover in NCR

State/Sub-region/District	Total Geographical Area (sq.km.)	Forest/Tree Cover as per 2001 Report		Forest/Tree Cover as per 2009 Report	
		Area	%	Area	%
India	3287263	675538	20.55	690899	21.02
Haryana Sub-region	13468	657	4.88	836	6.21
U.P. Sub-region	10853	407	3.75	282	2.60
Rajasthan Sub-region	8380	1209	14.43	1207	14.40
NCT-Delhi	1483	111.33	7.51	299.58	20.20
NCR	34184	2384.33	6.97	2502	7.32

Urban Green Spaces

The emphasis should be on urban greens, green homes, green campuses, green corridors, leading to green cities and realizing a sustainable green economy that protects the health and improve the physical quality of life

Present Scenario & Statistics

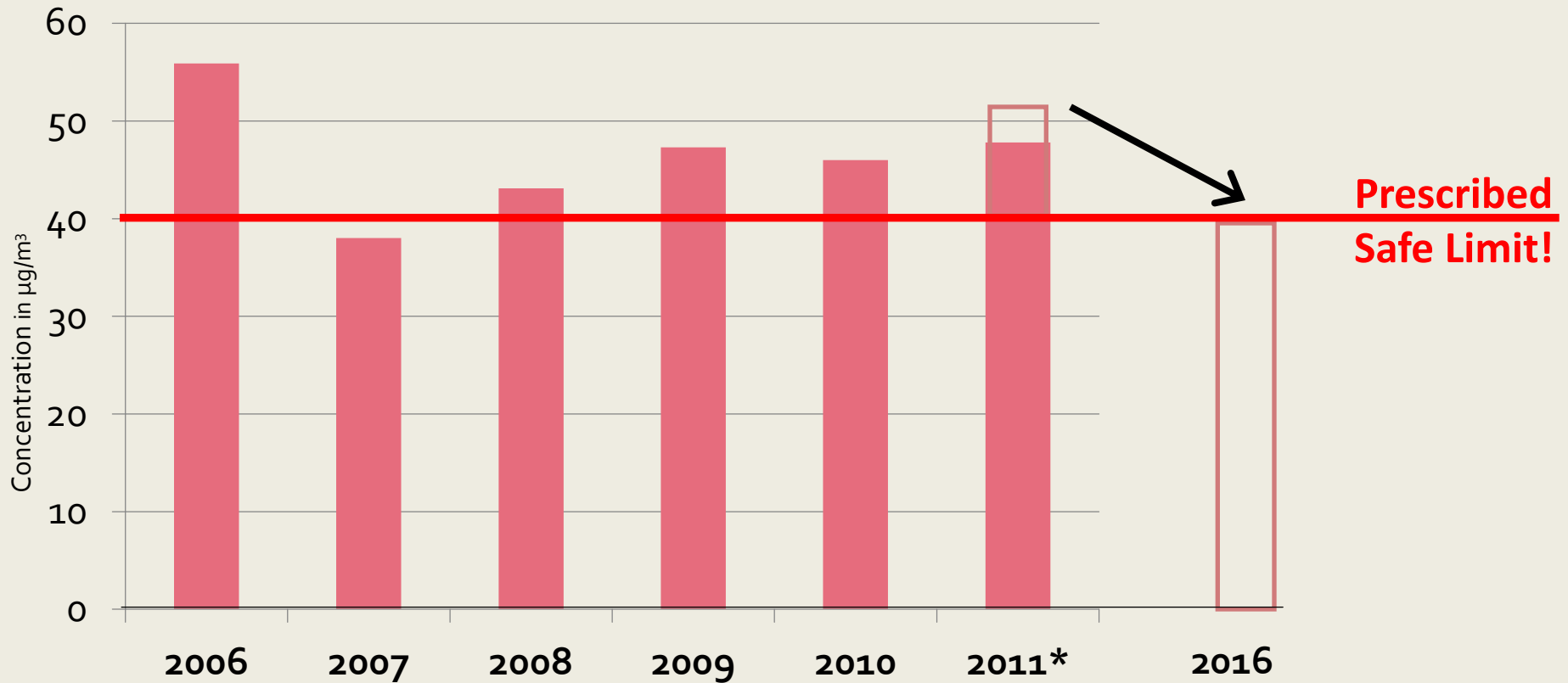
Annual Average* of Critical Pollutants at Five Stations in Delhi (in $\mu\text{g}/\text{m}^3$)

Parameters	Punjabi Bagh	Mandir Marg	R K Puram	Airport	Civil Lines	Prescribed Limit
SO ₂	7.81	9.40	6.34	19.53	23.26	50
NO ₂	38.51	43.29	44.87	70.27	97.05	40
PM10	294.59	250.76	314.89	265.80	213.56	100
PM2.5	153.07	127.16	151.53	135.73	84.39	60
Benzene	0.75	1.18	0.93	22.01	14.83	5

Highlighted Data in red indicates Crossing of prescribed limit

*Average data from November 2010 to October 2011

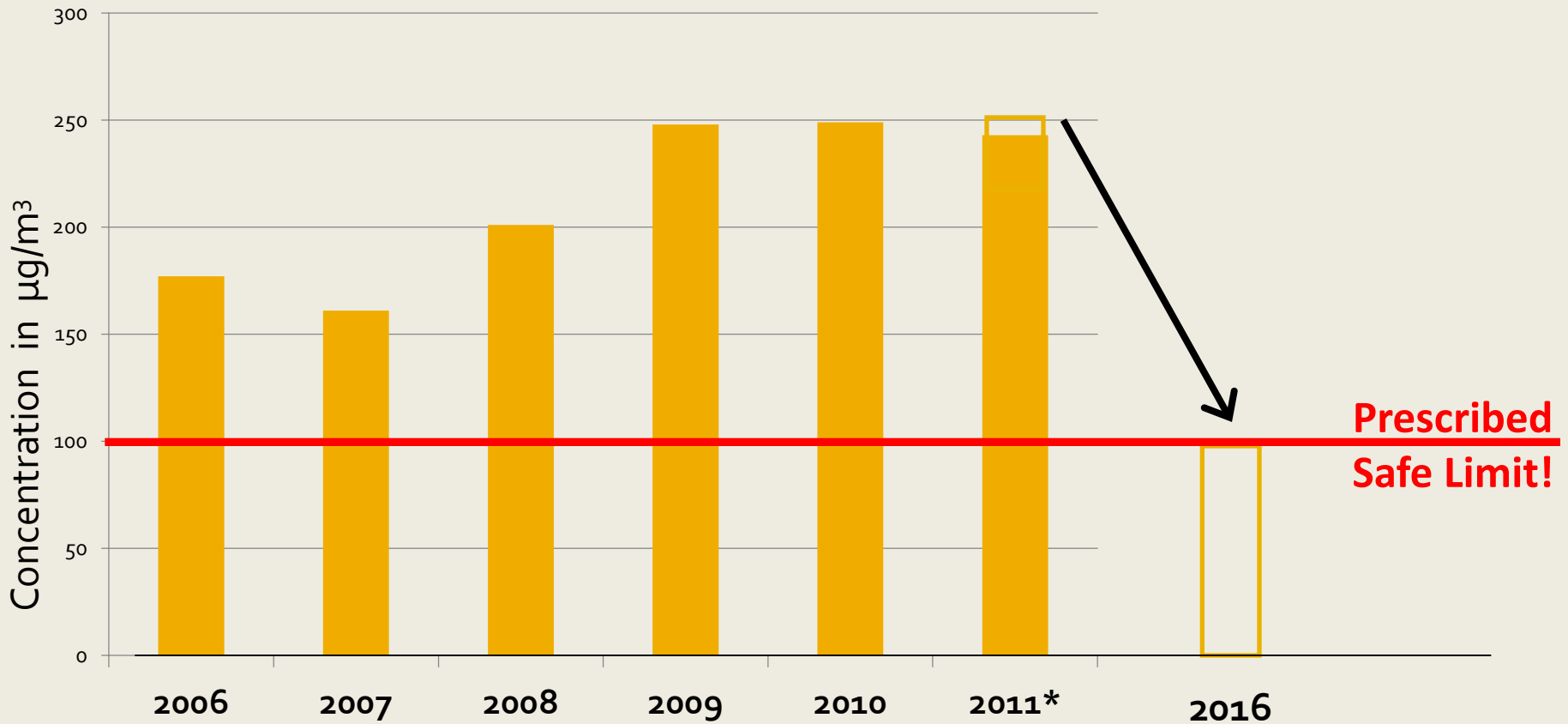
Concentration of NO₂ (Annual Average) in Delhi



*2011 averaged for 5 stations of DPCC till October
2006-10 data of CPCB

(Target!)

Concentration of PM10 (Annual Average) in Delhi



*2011 averaged for 5 stations of DPCC till October
2006-10 data of CPCB

(Target!)

THANK YOU