Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 12.09.2021

Permissible Limits: PM_{10} = 100; $PM_{2.5}$ = 60, all units are in μg/m³

Site Location	Sampling Time (24 hrs)	DAYALBAGH (TIME WEIGHTED AVERAGE DATA)								SANJAY PLACE (ARITHMETIC MEAN DATA)							
		AQI On The Basis of $PM_{2.5}$ Concentration		Meteorological Parameters @ Dayalbagh						AQI On The Basis of $PM_{2.5}$ Concentration		Meteorological Parameters @ Sanjay Place					
		Today Sep 12- Sep 11	Yesterday Sep 11- Sep 10	RH %	WS m/s	WD	T °C	SR W/m²	RF mm	Today Sep 12- Sep 11	Yesterday Sep 11- Sep 10	RH %	WS m/s	WD	T °C	SR W/m²	RF mm
4 / 97	12:00 noon – 12:00 noon	**82 Satisfactory**	**80 Satisfactory**	**81**	**3.3**	**ESE**	**29**	**140**	**0**	**70 Satisfactory**	**68 Satisfactory**	**74**	**3.2**	**SW**	**NA**	**207**	**0**
3 / 34	12:00 noon – 12:00 noon	**68 Satisfactory**	**66 Satisfactory**	**81**	**3.4**	**ESE**	**29**	**117**	**0**								
Science Faculty	12:00 noon – 12:00 noon	**70 Satisfactory**	**66 Satisfactory**	**82**	**2.5**	**WSW**	**29**	**121**	**0**								

NOTE: 1 A continuous study conducted as part of **Dayalbagh Sigma Six Qualities and Values Model** implementation.
2 DEI is using United States Environmental Protection Agency (USEPA) methodology and online calculators to calculate AQI. For fair comparison with UPPCB Sanjay Place Weather Station readings, their $PM_{2.5}$ concentration readings are fed in USEPA online calculator for AQI calculation.
3 Formula for AQI calculation for a Pollutant -

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$

where, I = Air Quality Index, C=Pollutant Concentration (PM2.5), Clow=Concentration Breakpoint ≤C, Chigh=Concentration Breakpoint ≥C, Ilow=Index Break point corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh