## Radhasoami Dayal Ki Daya Radhasoami Sahai

## AIR QUALITY MONITORING @ 40 FEET HEIGHT – Report Date: 6.12.2021 (BASED ON US-EPA AQI STANDARDS AND THE DAYALBAGH AQI COLOUR CODE)

Permissible Limits (24 Hour Mean): PM<sub>10</sub> = 150; PM<sub>2.5</sub> = 35, all units are in µg/m<sup>3</sup>

Sampling	AQI										AQI									
(24 hrs)	PM2.5		PM10		Meteorological Parameters @ Dayalbagh					PM2.5 PM10			M10	Meteorological Parameters @ Sanjay Place						
	Today Dec 6 – Dec 5	Yesterday Dec 5 – Dec 4	Today Dec 6 – Dec 5	Yesterday Dec 5 – Dec 4	RH %	WS m/s	WD	T °C	SR W/ m <sup>2</sup>	RF mm	Today Dec 6 – Dec 5	Yesterday Dec 5 – Dec 4	Today Dec 6 – Dec 5	Yesterday Dec 5 – Dec 4	RH %	WS m/s	WD	°C	SR W/m <sup>2</sup>	RI mr
09:00 am  09:00am	158 UH	153 UH	157 UH	101 US	78	1.5	SSE	20	47	0										
09:00 am _ 09:00am	172 UH	154 UH	94 M	106 US	80	1.5	SE	20	44	0	173 UH	164 UH	98 M	90 M	72	0.8	SSE	18	75	0
09:00 am _ 09:00 am	190 UH	163 UH	144 US	101 US	83	1.7	SE	20	42	0										
	Time (24 hrs) 09:00 am 09:00 am 09:00 am  09:00 am	Time (24 hrs)       PN         (24 hrs)       Ioday Dec 6 - Dec 5         09:00 am       158 UH         09:00 am       172 UH         09:00 am       172 UH         09:00 am       190 UH	Time (24 hrs)     PM2.5       Today Dec 6 - Dec 5     Yesterday Dec 5 - Dec 4       09:00 am - 09:00 am 09:00 am 09:00 am - 09:00 am - 00 am - 09:00 am - 09:00 am - 00 am - 09:00 am - 00 am - 00 - 00 am - 00 am - 00 - 00 am - 00 - 00 am - 00 - 00 - 00 am - 00 - 00 - 00 - 00 - 00 - 00 - 00 -	Time (24 hrs)     PM2.5     PI       Today Dec 6 - Dec 5     Yesterday Dec 5 - Dec 4     Today Dec 6 - Dec 5       09:00 am - 09:00 am 09:00 am - 09:00 am - 00 am - 09:00 am - 00 am - 00 - 00 am - 00 am - 00 - 00 am - 00 - 00 am - 00 - 00 - 00 - 00 - 00 - 00 - 00 -	Time (24 hrs) $PM_{2.5}$ $PM_{10}$ $Dec 5 - Dec 4$ $Dec 5 - Dec 4$ $Today Dec 5 - Dec 4$ $Vesterday Dec 5 - Dec 4$ 09:00 am - 09:00 am 09:00 am - 09:00 am $158 \\ UH \\ UH \\ UH \\ UH$ $157 \\ UH \\ UH \\ UH \\ VH$ $101 \\ US \\ VS$	Time (24 hrs) $PM_{2.5}$ $PM_{10}$ $TodayDec 6 -Dec 5$ $VesterdayDec 5 -Dec 4$ $TodayDec 5 -Dec 5$ $VesterdayDec 5 -Dec 4$ $RH$ %         09:00 am - 09:00 am - 00:00 am - 00:000 am - 00:000 am - 00:000 am	Time (24 hrs)     PM2.5     PM10       Today Dec 6 - Dec 5     Yesterday Dec 5 - Dec 4     Today Dec 5 - Dec 5     Yesterday Dec 5 - Dec 5     RH %     WS m/s       09:00 am - 09:00 am - 00 00     154 0 04 0 04 0 04 0 05     94 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mg1       Meteorologica         Meteorologica         Colspan="5">Meteorologica         Colspan="5">Meteorologica         Today       PM2.5       PM10         Today       Vesterday       RH       Meteorologica         09:00 am       158       UH       Today       Vesterday       RH       WS       WD         09:00 am       158       153       157       101       78       1.5       SSE         09:00 am       -       09:00 am       172       154       94       106       80       1.5       SE         09:00 am       -       09:00 am       163       144       101       83       1.7       SE         09:00 am       -       09       163       144       US       83       1.7       SE	Time (24 hrs) $PM_{2.5}$ $PM_{10}$ Meteorological Parame Dayalbagh $Today Dec 6 - Dec 5$ $PM_{10}$ $Vesterday Dec 5 - Dec 4$ $RH - Meteorological Parame Dayalbagh$ $09:00 \text{ am} - Dec 5$ $Today Dec 5 - Dec 4$ $Today Dec 5 - Dec 4$ $Vesterday Dec 5 - Dec 4$ $RH - Meteorological Parame Dayalbagh$ $09:00 \text{ am} - Dec 5$ $Today Dec 5 - Dec 4$ $Today Dec 5 - Dec 4$ $Vesterday Dec 5 - Dec 4$ $RH - Meteorological Parame Dayalbagh$ $09:00 \text{ am} - Dec 5$ $158 UH$ $153 UH$ $157 UH$ $101 US$ $78$ $1.5$ $SSE$ $20$ $09:00 \text{ am} - Dec 4$ $154 UH$ $94 M$ $106 US$ $80$ $1.5$ $SE$ $20$ $09:00 \text{ am} - Dec 4$ $163 UH$ $144 US$ $101 US$ $83$ $1.7$ $SE$ $20$	Time (24 hrs) $PM_{2.5}$ $PM_{10}$ Meteorological Parameters @ Dayalbagh $\frac{1}{22}$ (24 hrs) $PM_{2.5}$ $PM_{10}$ $PM_{10}$ $PM_{10}$ $\frac{1}{2}$ (24 hrs) $\frac{1}{2}$ (24 hrs) $\frac{1}{2}$ (25 m) $\frac{1}{2}$ (26 m) $\frac{1}{2}$ (26 m) $\frac{1}{2}$ (26 m) $\frac{1}{2}$ (27 m) $\frac{1}{2}$ (28 m) $\frac{1}{2$	Time (24 hrs)Meteorological Parameters @ Dayalbagh $PM_{2.5}$ $PM_{10}$ Meteorological Parameters @ Dayalbagh $TodayDec 6 -Dec 5VesterdayDec 5 -Dec 4RHPMOBWSm/sWDTCSRW/m2RFmm09:00 am-09:00 am-09:00 am-09:00 am-09:00 am158UH153UH157UH101UH781.5SSE2047009:00 am-09:00 am09:00 am-09:00 am09:00 am172UH154UH94M106US801.5SE2044009:00 am09:00 am-09:00 am163UH144US101US831.7SE20420$	Meteorological Parameters @         Meteorological Parameters @ $(24 \text{ hrs})$ $PM_{2.5}$ $PM_{10}$ $Meteorological Parameters @       Dayalbagh PM Today       Vesterday       Today       Vesterday       Today       Vesterday       Today       Dec 5 - Dec 4 RH WS WD T_{C} SR RF Today Dec 6 - Dec 5 - Dec 4 Meteorological Parameters @       Meteorological Parameters @       Dayalbagh RH WS WD T_{C} SR RF Today Dec 6 - Dec 5 - Dec 4 Meteorological Parameters @       Meteorological Parameters @$	Time (24 hrs) $PM_{2.5}$ $PM_{10}$ $Meteorological Parameters @Dayalbagh       PM_{2.5} PM_{10} \frac{1}{2} (24 hrs)       PM_{2.5} PM_{10} PM_{10} PM_{2.5} PM_{10} PM_{2.5} PM_{2.5} PM_{10} PM_{2.5} PM_{2.5}$	Time (24 hrs)       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh         PM2.5       PM10       Meteorological Parameters @ Dayalbagh         Today $Dec 5 - Dec 5$ Dec 4       PM $Dec 5 - Dec 5$ PM $Dec 5$	Time (24 hrs)       Meteorological Parameters @ Dayalbagh         PM2.5       PM10       Meteorological Parameters @ Dayalbagh $24 \text{ hrs}$ PM2.5       PM10       Meteorological Parameters @ Dayalbagh $24 \text{ hrs}$ PM2.5       PM10       Meteorological Parameters @ Dayalbagh $24 \text{ hrs}$ PM2.5       PM10       Meteorological Parameters @ Dayalbagh $100 \text{ bec } 5^{}$ $264 \text{ bec } 5^{}$ $284  $	Time (24 hrs)       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh         PM2.5       PM10       Meteorological Parameters @ Dayalbagh $V_{L}^{T}$ PM2.5       PM10       PM2.5       PM10         Today       Vesterday Dec 5 - Dec 5       Today       Vesterday Dec 5 - Dec 5       Today Dec 5 - Dec 4       RH       WS m/s       WD       T       SR W/ m²       RF mm       Today Dec 5 - Dec 5       Vesterday Dec 5 - Dec 4       Vesterday M%       Vesterday mm       Today M/ m²       Vesterday Mm       Vesterday Dec 5 - Dec 4       Vesterday M%       Vesterday M%       Meteorological Parameters @       RF mm       Today Dec 5       Vesterday Dec 5 - Dec 4       Vesterday M%       Vesterday M%	Time (24 hrs)       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       Mig       Mig       Mig       Mig       Mig <th< th=""><th>Time (24 hrs)       INCL       Meteorological Parameters @ Dayalbagh       INCL       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh         09:00 am       158       153       157       101       78       1.5       SSE       20       47       0       Mage       Mage</th><th>Time (24 hrs)       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       PM2.5       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh</th><th>Time (24 hrs)       <math>Meteorological Parameters @Dayalbagh       Meteorological Parameters @Dayalbagh       Meteorological Parameters @Dayalbagh       <math>Meteorological Parameters @PM_2.5       <math>PM_{10}</math>       Meteorological Parameters @ Sanjay Place       Meteorological Parameters @ Dayalbagh       <math>Meteorological Parameters @PM_2.5       <math>PM_{10}</math>       Meteorological Parameters @ Sanjay Place       <math>Meteorological Parameters @Sanjay Place       <math>Meteorological Parameters @Sanjay Place       <math>Meteorological Parameters @Sanjay Place         <math>09:00 \text{ am}</math> <math>\overline{Dec 5}^{-}</math> <math>\overline{Dec 4}^{-}</math> <math>\overline{Dec 5}^{-}</math> <math>\overline{Dec 4}^{-}</math> <math>\overline{Ne}^{+}</math> <math>\overline{Ne}^</math></math></math></math></math></math></math></th></th<>	Time (24 hrs)       INCL       Meteorological Parameters @ Dayalbagh       INCL       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh         09:00 am       158       153       157       101       78       1.5       SSE       20       47       0       Mage       Mage	Time (24 hrs)       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       PM2.5       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh       PM10       Meteorological Parameters @ Dayalbagh       Meteorological Parameters @ Dayalbagh	Time (24 hrs) $Meteorological Parameters @Dayalbagh       Meteorological Parameters @Dayalbagh       Meteorological Parameters @Dayalbagh       Meteorological Parameters @PM_2.5       PM_{10}       Meteorological Parameters @Sanjay Place       Meteorological Parameters @Dayalbagh       Meteorological Parameters @PM_2.5       PM_{10}       Meteorological Parameters @Sanjay Place       Meteorological Parameters @Sanjay Place       Meteorological Parameters @Sanjay Place       Meteorological Parameters @Sanjay Place         09:00 \text{ am} \overline{Dec 5}^{-} \overline{Dec 4}^{-} \overline{Dec 5}^{-} \overline{Dec 4}^{-} \overline{Ne}^{+} \overline{Ne}^$

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 PM2.5 concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant -

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

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

corresponding to Clow, Ihigh=Index Breakpoint corresponding to Chigh