#### Report on Ambient Air Quality and Ambient Noise Monitoring during Diwali, 2024

To study the impact of the bursting of crackers and other related activities, the Himachal Pradesh State Pollution Control Board has conducted ambient air quality monitoring on the occasion of Diwali festival 2024 from 24.10.2024 to 30.10.2024 (Pre Diwali monitoring), on 31.10.2024 (Diwali Day monitoring) and 01.11.2024 to 07.11.2024 (Post Diwali monitoring). Ambient air quality monitoring at Shimla, Parwanoo, Dharamshala, Damtal (Jassur), Sunder Nagar, Paonta Sahib, Kala Amb, Una, and Manali was carried out for parameters i.e. Respirable Particulate Matter (PM10.), Respirable Particulate Matter (PM2.5.), Sulphur Dioxide (SO2), Oxides of Nitrogen (NOx) and Ammonia (NH3) for 24 hour a day. Ambient air quality monitoring at Parwanoo, Damtal, Paonta Sahib, Kala Amb, Una and Nalagarh was carried out for CO (Carbon Monoxide) and at Shimla, Parwanoo, Dharamshala, Damtal Sundernagar, Paonta Sahib, Kala Amb and Una was carried out for O3 (Ozone) parameter. At Baddi Station Ambient Air Quality was carried out for Respirable Particulate Matter (PM10.), Respirable Particulate Matter (PM2.5.), Sulphur Dioxide (SO2) and Oxides of Nitrogen (NOx). Further, the heavy metal monitoring and analysis was carried out at Shimla, Parwanoo, Paonta Sahib, Sundernagar, Una and Dharamshala for Lead, Nickel, Arsenic metals in PM10, and Aluminium, Barium and Iron metals in PM2.5. Ambient Noise monitoring was carried out at Shimla, Parwanoo, Paonta Sahib, Una, Dharamshala, Baddi, Kullu, Bilaspur, Kinnaur, Rampur and Chamba. The detail of ambient air & and noise monitoring data is enclosed in Annexures- I-II & III.

# Ambient Air Quality Monitoring report of Himachal Pradesh during the Diwali Festival, 2024 are as under:

#### SHIMLA

The ambient air quality monitoring at Shimla was carried out at one location i.e. Tekka Bench, Shimla. The 24-hour average value of RSPM (PM<sub>10</sub>) at Tekka Bench was observed at 65.7 $\mu$ g/m³ which is below the standard prescribed limit of 100  $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>10</sub>) observed at Shimla during Diwali, 2024 was above the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year i.e. 61.1 $\mu$ g/m³. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali day was observed as 84.0 $\mu$ g/m³ at Tekka Bench, Shimla from 2:00 PM-10:00 PM. Similarly, the 24-hour average value of RSPM (PM<sub>2.5</sub>) at Tekka Bench, Shimla was observed at 24.0 $\mu$ g/m³ which is below than standard prescribed limit of 60 $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) observed at Shimla during Diwali, 2024 was comparatively below the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e. 47.1 $\mu$ g/m³. The concentration of SO<sub>2</sub> and NOx was also observed well below the prescribed standards of 80 $\mu$ g/m³ for 24 hours. The average concentration of SO<sub>2</sub> and NOx was observed as 2.9 $\mu$ g/m³ & and 14.6 $\mu$ g/m³ at Tekka Bench respectively on Diwali day which was well below the prescribed standard limit of 80 $\mu$ g/m³.

The 8-hour average O<sub>3</sub> concentration at Tekka Bench, Shimla was observed within the standard prescribed limit of 100µg/m³ on pre-Diwali, Diwali and post-Diwali

monitoring. The concentration of NH<sub>3</sub> at Tekka Bench was observed at 1.0µg/m<sup>3</sup> during Diwali day which is below the standard prescribed limit of 400µg/m<sup>3</sup>.

The concentrations of Lead, Nickel and Arsenic in  $PM_{10}$  at Shimla town were found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0ng/m^3$  & Nickel  $20.0ng/m^3$  during Pre Diwali, Diwali & Post Diwali monitoring.

#### **PARWANOO**

The ambient air quality monitoring at Parwanoo was carried out at one location i.e. Sector-IV Parwanoo. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Sector-IV Parwanoo on Diwali day was observed at 228.0μg/m³ which is higher than the prescribed standard limit of 100μg/m³. The value of RSPM (PM<sub>10</sub>) concentration observed on pre-Diwali was within the prescribed limit and post-Diwali was above the prescribed limit. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali was observed as 365.5μg/m³ from 02:00 PM-10:00 PM. The concentration of RSPM(PM<sub>10</sub>) 228.0μg/m³ at Sector-IV, Parwanoo was observed higher than the concentration of RSPM(PM<sub>10</sub>) observed during Diwali last year i.e. 87.0/m³. Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration in Parwanoo at Sector-IV was observed at 95.0μg/m³ which is above the standard prescribed limit of 60μg/m³ on Diwali day. The concentration of RSPM(PM<sub>2.5</sub>) 95.0μg/m³ at Sector-IV, Parwanoo was observed higher than the concentration of RSPM(PM<sub>2.5</sub>) observed during Diwali last year i.e. 23.0μg/m³. The average concentration of SO<sub>2</sub> and NOx at Sector-IV, Parwanoo was observed well below the prescribed standards of 80μg/m³ for 24 hours i.e. 2.0 & 4.5μg/m³ on Diwali day.

The 8-hour average concentration of O<sub>3</sub> and CO at Sector-IV, Parwanoo was observed within the standard prescribed limit of 100μg/m³ and 2.0mg/m³ on Pre Diwali, Diwali day & Post Diwali. The value of NH<sub>3</sub> concentration was observed at 0.3μg/m³ on Diwali day within the prescribed limit of 400μg/m³.

The concentrations of metals Lead, Nickel and Arsenic in  $PM_{10}$  at Parwanoo town were found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0 ng/m^3$  & Nickel  $20.0 ng/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring.

#### **DHARAMSHALA**

The ambient air quality monitoring at Dharamshala was carried out at one location i.e. Dari, Dharamshala. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Dari, Dharamshala was observed above the prescribed standards of 100  $\mu g/m^3$  i.e. 113.0 $\mu g/m^3$  during Diwali day. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali, 2023 was observed as 246.0 $\mu g/m^3$  during 2:00 PM-10:00 PM. The concentration of RSPM (PM<sub>10</sub>) at Dari, Dharamshala was observed comparatively lower than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year 128.0 $\mu g/m^3$ . Similarly, the

24-hour average RSPM (PM<sub>2.5</sub>) concentration was observed 41.0 $\mu$ g/m³ lower than the standard prescribed limit of 60  $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) at Dari, Dharamshala was observed comparatively lower than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e. 72.0 $\mu$ g/m³. The average concentration on Diwali day of SO<sub>2</sub> and NOx at Dari, Dharamshala was observed well below the prescribed standards of 80 $\mu$ g/m³ for 24 hours i.e. 2.0  $\mu$ g/m³ (BDL) & and 11.6 $\mu$ g/m³ (BDL) respectively.

The 8-hour average  $O_3$  concentration at Dari, Dharamshala was observed within the standard prescribed limit of  $100\mu g/m^3$  on Pre Diwali, Diwali day & Post Diwali. The value of NH<sub>3</sub> concentration was observed at  $0.78\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The concentrations of metals Lead, Nickel and Arsenic in  $PM_{10}$  at Dharamshala town were also found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0ng/m^3$  & Nickel  $20.0ng/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring.

#### DAMTAL (JASSUR)

The ambient air quality monitoring at Damtal was carried out at one location i.e. Ram Gopal Mandir, Damtal. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Damtal, Jassur was observed below the prescribed standards of 100 μg/m³ i.e. 98.0μg/m³ on Diwali day, 2024. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air was observed as 114.0μg/m³ on Diwali day from 02:00 PM-10:00 PM. The concentration of RSPM (PM<sub>10</sub>) at 98.0μg/m³ was observed relatively higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year at 60.0μg/m³. Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration at Damtal, Jassur was observed 37.0μg/m³ lower than the standard prescribed limit of 60 μg/m³ on Diwali day. The concentration of RSPM(PM<sub>2.5</sub>) 37.0μg/m³ was observed relatively higher than the concentration of RSPM(PM<sub>2.5</sub>) observed during Diwali last year i.e. 20.0μg/m³. The average concentration of SO<sub>2</sub> and NOx was observed as 2.0μg/m³ (BDL) and 8.6μg/m³ (BDL) respectively on Diwali day.

The 8-hour average  $O_3$  and CO concentration at Damtal was observed within the standard prescribed limit of  $100\mu g/m^3$  and  $2mg/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring. The value of NH<sub>3</sub> concentration was observed at  $0.56\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The concentrations of metals Lead, Nickel and Arsenic in  $PM_{10}$  at Damtal town were also found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0 ng/m^3$  & Nickel  $20.0 ng/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring.

#### SUNDER NAGAR

The ambient air quality monitoring at Sunder Nagar was carried out at one location i.e. Regional Office, Sunder Nagar. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Sunder Nagar was observed above the prescribed standards of 100 μg/m³ i.e. 106.0μg/m³ on Diwali day. The concentration of RSPM (PM<sub>10</sub>) observed during Diwali, 2024 was comparatively higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year 63.8μg/m³. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali was observed as 121.0μg/m³ during 10:00 PM-6:00 AM. Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration was also observed 52.0μg/m³ lower than the standard prescribed limit of 60μg/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) 52.0μg/m³ was observed higher than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e. 35.0μg/m³. The concentration of SO<sub>2</sub> and NOx was observed well below the prescribed standards of 80μg/m³ (BDL) and 7.29μg/m³ (BDL) which is below the prescribed standard of 80μg/m³ for 24 hours.

The 8-hour average  $O_3$  concentration at Sunder Nagar was observed within the standard prescribed limit of  $100\mu g/m^3$  on Pre Diwali, Diwali day & Post Diwali. The value of NH<sub>3</sub> concentration was observed at  $3.75\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The concentrations of metals Lead, Nickel and Arsenic in  $PM_{10}$  at Sundernagar town were found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0 ng/m^3$  & Nickel  $20.0 ng/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring.

#### PAONTA SAHIB

The ambient air quality monitoring at Paonta Sahib was carried out at one location i.e. office building, Shubkhera, Paonta Sahib. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Paonta Sahib was observed higher than the prescribed standards of  $100\mu g/m^3$  i.e.  $167.2\mu g/m^3$  on Diwali day. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air was observed as  $273.8\mu g/m^3$  on Diwali day, 2024 from 02:00 PM-10:00 PM indicating the impact of bursting of crackers on the ambient air quality. The concentration of RSPM (PM<sub>10</sub>) at  $167.2\mu g/m^3$  was observed higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year at  $115.9\mu g/m^3$ . Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration was also observed  $53.2\mu g/m^3$  lower than the standard prescribed limit of 60  $\mu g/m^3$  on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>)  $53.2.0\mu g/m^3$  was observed relatively higher than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e.  $50.6\mu g/m^3$ . The concentration of SO<sub>2</sub> and NOx was observed well below the prescribed

standards of  $80\mu g/m^3$  for 24 hours. The average concentration of  $SO_2$  and NOx was observed as  $6.0\mu g/m^3$  and  $10.1\mu g/m^3$  respectively on Diwali day.

The 8-hour average  $O_3$  concentration at Paonta Sahib was observed within the standard prescribed limit of  $100\mu g/m^3$  on pre-Diwali, Diwali and post-Diwali monitoring. The value of NH<sub>3</sub> concentration was observed at  $2.0\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The concentrations of metals Lead, Nickel and Arsenic in  $PM_{10}$  at Paonta Sahib town were also found within the standard prescribed limit of Lead  $1.0\mu g/m^3$ , Arsenic  $6.0 ng/m^3$  & Nickel  $20.0 ng/m^3$  on Pre Diwali, Diwali & Post Diwali monitoring.

#### KALA AMB

The ambient air quality monitoring at Kala Amb was carried out at one location i.e. Trilokpur. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Trilokpur was observed lower than the prescribed standards of 100  $\mu g/m^3$  i.e.  $84.2\mu g/m^3$  on Diwali day. The maximum concentration of RSPM (PM<sub>10</sub>) was observed as  $90.2\mu g/m^3$  on Diwali, 2024 from 06:00 AM-02:00 PM. The concentration of RSPM (PM<sub>10</sub>) at  $84.2\mu g/m^3$  was observed relatively higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year  $82.6\mu g/m^3$ . Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration was observed  $41.9\mu g/m^3$  lower than the standard prescribed limit of  $60~\mu g/m^3$  on Diwali day. The concentration of RSPM(PM<sub>2.5</sub>)  $41.9\mu g/m^3$  was observed relatively lower than the concentration of RSPM(PM<sub>2.5</sub>) observed during Diwali last year i.e.  $44.0\mu g/m^3$ . The concentration of SO<sub>2</sub> and NOx was observed well below the prescribed standards of  $80\mu g/m^3$  for 24 hours. The average concentration of SO<sub>2</sub> and NOx was observed as  $6.5\mu g/m^3$  and  $10.6\mu g/m^3$  which is below the prescribed standard of  $80\mu g/m^3$  for 24 hours.

The 8-hour average  $O_3$  and CO concentration at Trilokpur, Kala Amb was observed within the standard prescribed limit of  $100\mu g/m^3$  and  $2.0mg/m^3$  on Pre Diwali, Diwali day & Post Diwali. The value of NH<sub>3</sub> concentration was observed at  $2.1\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The concentrations of metals Lead, Nickel and Arsenic in PM<sub>10</sub> at Kala Amb town were found within the standard prescribed limit of Lead 1.0µg/m<sup>3</sup>, Arsenic 6.0ng/m<sup>3</sup> & Nickel 20.0ng/m<sup>3</sup> on Pre Diwali, Diwali & Post Diwali monitoring.

#### UNA

The ambient air quality monitoring at Una was carried out at one location i.e. Regional Office, Una. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Una was also observed higher than the prescribed standards of  $100\mu g/m^3$  i.e.  $113.3\mu g/m^3$  on Diwali day. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air was observed as  $164.4\mu g/m^3$  on Diwali day, 2024 from 02:00 PM-10:00 PM indicating the impact of bursting of crackers

on the ambient air quality. The concentration of RSPM (PM<sub>10</sub>) 113.3µg/m³ was observed comparatively lower than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year i.e. 180.06µg/m³. The concentration of RSPM (PM<sub>2.5</sub>) 66.6µg/m³ was observed on Diwali day and is above the standard prescribed limit of 60µg/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) 66.6µg/m³ was observed relatively higher than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e. 62.5µg/m³. The average concentration of SO<sub>2</sub> and NOx was observed as 8.85µg/m³ and 6.85µg/m³ which is below the prescribed standard of 80µg/m³ for 24 hours. The value of NH<sub>3</sub> concentration was observed at 4.3µg/m³ on Diwali day is within the prescribed limit of 400µg/m³

The concentrations of metals Lead, Nickel and Arsenic in PM<sub>10</sub> at Una town were found within the standard prescribed limit of Lead 1.0µg/m³, Arsenic 6.0ng/m³ & Nickel 20.0ng/m³ on Pre Diwali, Diwali & Post Diwali monitoring.

#### **BADDI**

The ambient air quality monitoring at Baddi was carried out at one location i.e. Secure Meter, Barotiwala. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Baddi was observed higher than the prescribed standards of 100  $\mu$ g/m³ i.e. 158.0 $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>10</sub>) observed during Diwali, 2024 was higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year i.e. 96.0 $\mu$ g/m³. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali was observed as 195.0 $\mu$ g/m³ from 10:00 PM-06:00 AM. Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration was also observed 59.4 $\mu$ g/m³ lower than the standard prescribed limit of 60 $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) at 59.4 $\mu$ g/m³ was observed higher than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year 33.3 $\mu$ g/m³. The average concentration of SO<sub>2</sub> and NOx was observed as 3.2 $\mu$ g/m³ and 15.2 $\mu$ g/m³ on Diwali which is below the prescribed standard of 80 $\mu$ g/m³ for 24 hours.

#### **NALAGARH**

The ambient air quality monitoring at Nalagarh was carried out at one location i.e: Durga Devi Temple, Nalagarh. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Nalagarh was also observed higher than the prescribed standards of 100  $\mu$ g/m³ i.e. 142.7 $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>10</sub>) observed during Diwali, 2024 was higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year 85.0 $\mu$ g/m³. The maximum concentration of RSPM (PM<sub>10</sub>) in the ambient air on Diwali was observed as 180.0 $\mu$ g/m³ from 10:00 PM-06:00 AM. Further; 24-hour average RSPM (PM<sub>2.5</sub>) concentration was observed at 50.9 $\mu$ g/m³ within the standard prescribed limit of 60  $\mu$ g/m³ on Diwali day. The concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali, 2024 was higher than the concentration of RSPM (PM<sub>2.5</sub>) observed last year i.e. 25.0 $\mu$ g/m³. The average concentration of SO<sub>2</sub> and NOx was observed as 2.7 $\mu$ g/m³ (BDL) and 14.0 $\mu$ g/m³ on Diwali

day. The value of NH<sub>3</sub> concentration was observed at  $6.10\mu g/m^3$  on Diwali day is within the prescribed limit of  $400\mu g/m^3$ .

The 8-hour average CO concentration at Nalagarh was observed within the standard prescribed limit of 2.0mg/m³ on Pre Diwali, Diwali day & Post Diwali.

#### **MANALI**

The ambient air quality monitoring at Manali was carried out at one location i.e. Hadimba Mata Road, Manali. The 24-hour average RSPM (PM<sub>10</sub>) concentration at Hadimba Matta Road, Manali was observed lower than the prescribed standards of 100μg/m³ i.e. 80.4μg/m³ on Diwali day. The concentration of RSPM (PM<sub>10</sub>) observed during Diwali, 2024 was comparatively higher than the concentration of RSPM (PM<sub>10</sub>) observed during Diwali last year 54.5μg/m³. The maximum concentration of RSPM (PM<sub>10</sub>) observed was 99.2μg/m³ from 2:00 PM-10:00 PM on Diwali day indicating the impact of bursting of crackers on the ambient air quality. Similarly, the 24-hour average RSPM (PM<sub>2.5</sub>) concentration was observed at 22.7μg/m³ within the standard prescribed limit of 60 μg/m³ on Diwali day. The concentration of RSPM(PM<sub>2.5</sub>) 22.7μg/m³ was observed relatively higher than the concentration of RSPM (PM<sub>2.5</sub>) observed during Diwali last year i.e. 16.6μg/m³. The concentration of SO<sub>2</sub> and NOx was observed well below the prescribed standards of 80μg/m³ for 24 hours. The average concentration of SO<sub>2</sub> and NOx was observed as 4.7μg/m³ and 11.1μg/m³ which is below the prescribed standard of 80μg/m³ for 24 hours.

The 24-hour average  $NH_3$  concentration at Hadimba Mata Road, Manali was observed at  $3.4\mu g/m^3$  which is within the prescribed standard limit of  $400\mu g/m^3$  on Diwali day.

The concentrations of metals Lead, Nickel and Arsenic in PM<sub>10</sub> at Kullu town were found within the standard prescribed limit of Lead 1.0µg/m<sup>3</sup>, Arsenic 6.0ng/m<sup>3</sup> & Nickel 20.0ng/m<sup>3</sup> on Pre Diwali, Diwali & Post Diwali monitoring.

## Ambient Noise monitoring reports of Himachal Pradesh during the Diwali Festival, 2024 are as under:

Himachal Pradesh State Pollution Control Board has also conducted ambient noise monitoring on the occasion of the Diwali festival, 2024, to study the impact of the bursting of crackers and other related activities on 24.10.2024 (Normal day monitoring) and 31.10.2024 (Diwali day monitoring). The data of the ambient noise monitoring observed are summarized in Annexure-I.

#### **SHIMLA**

The ambient noise level monitoring was conducted at Shimla Ridge during the Diwali festival on 24.10.2024 and 31.10.2024. The average ambient noise level (Leq.) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 50.4 dB(A) and 68.7 dB(A) respectively. The maximum impact of bursting of crackers on the ambient noise level on Diwali day was observed at 97.1dB (A) between 08.00 PM to 09.00 PM.

The ambient noise level of 68.7 dB(A) at Shimla was observed lower than the noise level of 72.6 dB(A) observed during Diwali last year.

#### **PARWANOO**

The ambient noise level was monitored at Sector IV, Parwanoo during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq.) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 42.6 dB(A) and 66.6 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 08:00 PM to 09:00 PM, where a noise level (Leq) of 91.6 dB(A) was observed.

The ambient noise level of 66.6 dB (A) at Parwanoo was observed slightly higher than the noise level of 66.3dB (A) observed during Diwali last year.

#### **BILASPUR**

The ambient noise level was monitored at Bilaspur town during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 46.5 dB(A) and 54.5 dB(A) respectively. The maximum impact of bursting of crackers on the ambient noise level on Diwali day was observed between 09:00 PM to 10:00 PM and an ambient noise level of 88.9 dB (A) was observed.

The ambient noise level of 54.5 dB(A) at Bilaspur was observed lower than the noise level of 55.9 dB(A) observed during Diwali last year.

#### **CHAMBA**

The ambient noise level was monitored at Regional Office Chamba (Residential zone) during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient

noise level (Leq) monitored at the Regional Office, Chamba (Residential zone), from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 46.9 dB(A) and 73.2 dB(A) respectively in residential zone. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 08:00 PM to 09:00 PM where a noise level (Leq) of 103.1 dB(A) was observed.

The ambient noise level of 73.2 dB(A) at Chamba was observed higher than the noise level of 72.1 dB(A) observed during Diwali last year.

#### **PAONTA SAHIB**

The ambient noise level was monitored at HIMUDA Colony, Shubkhera, and Paonta Sahib during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 52.8 dB(A) and 58.9 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 09:00 PM-10:00 PM where a noise level (Leq) of 76.4 dB(A) was observed.

The ambient noise level of 58.9 dB(A) at Paonta Sahib was observed higher than the noise level of 57.7 dB(A) observed during Diwali last year.

#### UNA

The ambient noise level was monitored at Regional Office Una (Residential zone) on 24.10.2024 and 31.10.2024 (Pre Diwali and Diwali day). The ambient noise level was monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 and the values were observed as 46.9 dB(A) and 71.0 dB(A) respectively in Residential zone. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 08:00 PM to 10:00 PM where a noise level (Leq) of 114.3 dB(A) was observed.

The Ambient noise level of 71.0 dB(A) at Una was observed higher than the level of 62.1 dB(A) observed during Diwali last year.

#### BADDI

The ambient noise level was monitored at Phase-I, Baddi during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq.) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 58.2 dB(A) and 65.7 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 09:00 PM-10:00 PM where a noise level (Leq.) of 74.4 dB(A) was observed.

The ambient noise level of 65.7 dB(A) at Phase-I, Baddi was observed lower than the noise level of 66.6 dB(A) observed during Diwali last year.

#### RECONG PEO

The ambient noise level was monitored at Recong Peo, District Kinnaur during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq.) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 51.5 dB(A), and 64.0 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 09:00 PM to 10:00 PM where a noise level (Leq) of 98.0 dB(A) was observed.

The ambient noise level of 64.0 dB(A) at Recong Peo was observed higher than the noise level of 62.5 dB(A) observed during Diwali last year.

#### RAMPUR BUSHAR

The ambient noise level was monitored at Rampur, Distt. Shimla during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 56.2 dB(A) and 65.0 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 08:00 PM to 09:00 PM where a noise level (Leq) of 98.0 dB (A) was observed.

The ambient noise level of 65.0 dB (A) at Rampur Bushar was observed slightly higher than the noise level 64.6 dB (A) observed during Diwali last year.

#### **DHARAMSHALA**

The ambient noise level was monitored at the Regional office of Dharamshala during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq) monitored from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 48.1 dB(A) and 58.8 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 07:00 PM to 08:00 PM where a noise level (Leq) of 81.4 dB(A) was observed.

The ambient noise level of 58.8 dB(A) at Dharamshala was observed lower than the noise level of 59.9 dB(A) observed during Diwali last year.

#### **KULLU**

The ambient noise level was monitored near Dhalpur Ground, Kullu during the Diwali festival on 24.10.2024 and 31.10.2024. The ambient noise level (Leq) monitored

from 18:00hrs-24:00hrs on 24.10.2024 and 31.10.2024 was observed as 64.2 dB(A) and 63.5 dB(A) respectively. The maximum impact of the bursting of crackers on the ambient noise level on Diwali day was observed between 08:00 PM to 09:00 PM where a noise level (Leq) of 91.4 dB (A) was observed.

The ambient noise level of 63.5 dB(A) near Dhalpur Ground, Kullu was observed higher than the noise level of 61.8 dB(A) observed during Diwali last year.

#### CONCLUSION

The concentration of RSPM (PM<sub>10</sub> and PM<sub>2.5</sub>), NOx, SO<sub>2</sub>, NH<sub>3</sub>, O<sub>3</sub> & CO levels in the ambient air observed on Diwali, 2024 was comparatively more than the values observed on the normal days which indicates the impact of the bursting of firecrackers and other activities on the ambient air quality. During Diwali, 2024 the concentration of SO<sub>2</sub>, NOx, NH<sub>3</sub>, O<sub>3</sub> & CO were observed within the standard limit in all the monitoring stations whereas, the concentration of RSPM (PM<sub>10</sub>) exceeded the prescribed standard limit of 100µg/m<sup>3</sup> for 24 hours at Dharamshala, Paonta Sahib, Parwanoo, Sunder Nagar, Una, Baddi and Nalagarh however, the RSPM (PM<sub>10</sub>) concentration was observed within the prescribed standard at Shimla, Damtal, Kala Amb and Manali on Diwali day. Further, the concentration of RSPM(PM<sub>10</sub>) at Shimla, Parwanoo, Damtal, Sunder Nagar, Paonta Sahib, Kala Amb, Baddi, Nalagarh and Manali was observed more than the concentration observed during Diwali, 2023, whereas, the concentration of RSPM(PM<sub>10</sub>) at Dharamshala, and Una stations were observed comparatively lower than the concentration of RSPM observed during Diwali, 2023.

Similarly, the Concentration of RSPM (PM<sub>2.5</sub>) has exceeded the prescribed standard limit of  $60\mu g/m^3$  for 24 hours at Parwanoo and Una however, the RSPM (PM<sub>2.5</sub>) concentration was observed within the prescribed standard at Shimla, Dharamshala, Damtal, Sundernagar, Paonta Sahib, Kala Amb, Baddi, Nalagarh & Manali on Diwali day. Further, the concentration of RSPM(PM<sub>2.5</sub>) at Parwanoo, Damtal, Sundernagar, Paonta Sahib, Una, Baddi, Nalagarh and Manali was observed more than the concentration observed during Diwali, 2023, whereas, the concentration of RSPM(PM<sub>2.5</sub>) at Shimla, Dharamshala and Kala Amb stations were observed comparatively lower than the concentration of PM<sub>2.5</sub> observed during Diwali, 2023.

There was a gradual decrease in the concentration of RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>), SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, O<sub>3</sub> & CO after the Diwali festival at all the monitoring stations.

Further, the heavy metal analysis was also carried out in all Laboratories i.e. Shimla, Parwanoo, Paonta Sahib, Sunder Nagar, Una & Dharamshala. The concentrations of Lead, Nickel and arsenic in PM<sub>10</sub> and Aluminium, Barium and Iron in PM<sub>2.5</sub> were monitored for consecutive 15 days and the Lead, Nickel and Arsenic parameters

were found within the prescribed limit as per NAAQMS, 2009 on Pre Diwali, Diwali & Post Diwali period.

It can be concluded from the ambient air quality monitoring carried out by the State Board that w.r.t. PM<sub>10</sub> concentration on Diwali day, Parwanoo, Baddi and Nalagarh towns were highest polluted and Shimla was the cleanest town in the State and with respect to RSPM(PM<sub>2.5</sub>) concentration Parwanoo and Una was highest polluted and Manali was the cleanest towns. With respect to SO<sub>2</sub> & NOx concentrations, all values are within the standard prescribed limit. The SO<sub>2</sub> concentration was observed highest at Una 8.9 µg/m<sup>3</sup> and the concentration of NOx was observed highest at Baddi 15.2µg/m<sup>3</sup>. The concentrations of NH<sub>3</sub> and O<sub>3</sub> at all locations were observed within the standard prescribed limit on Pre Diwali, Diwali and Post Diwali monitoring. The Concentration of metals (Lead, Nickel & Arsenic) in Shimla, Parwanoo, Paonta Sahib, Dharamshala, Una and Sunder Nagar was observed within the standard prescribed limit on Pre Diwali, Diwali and Post Diwali monitoring.

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				-	Annexi	ire-1								
						Aı	nnexur	e-I-Dat	a of N	oise Le	vel			
	E				D	ate					D	ate		
Area	Zone	Location			24.10	.2024					31.10	.2024		
	Zone	Location		18	:00Hrs	-24:00	Hrs			18	:00Hrs	-24:001	Hrs	
			dB (A) Leq	L <sub>max</sub>	$\mathbf{L}_{\min}$	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	dB (A) Leq	L <sub>max</sub>	L <sub>min</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>9</sub>
Shimla	С	Shimla (BCS Area)	50.4	68.2	31.9	57.1	48.2	49.6	68.7	97.1	45.8	75.4	71.5	68.
Parwanoo	Mixed	Sector-4, Parwanoo	42.6	73.8	31.3		-		66.6	91.6	39.0	-	-	-
Poanta Sahib	R	Regional Office Himuda Colony, Shubkhera, Poanta Sahib	52.8	65.9	38.5	55.8	50.4	48.1	58.9	76.4	39.2	56.5	51.3	48.
Una	R	Regional Office, Una	46.9	64.8	30.2	49.2	41.4	38.8	71.0	114.3	46.6	80.7	64.9	56.
Dharamshala	R	Regional Office Dharamshala	48.1	64.2	33.3	-			58.8	81.4	31.7			-
Baddi	C/R	Baddi Phase-I	58.2	69.4	38.1	60.8	54.4	49.9	65.7	74.4	38.4	66.5	59.4	52.
Kullu	С	Near Dhalpur Ground, Kullu	64.2	113.5	40.3	62.2	57.1	53.1	63.5	91.4	45.9	68.1	56.6	53.
Bilaspur	C/R	Housing Board Colony Bilaspur	46.5	74.3	34.0	49.6	44.9	42.3	54.5	88.9	37.4	62.4	53.1	46.
Kinnaur	C	Recongpeo (Distt.Kinnaur)	51.5	75.0	29.0	-			64.0	98.0	30.0		-	-
Rampur	c	Rampur Bushar (Distt. Shimla)	56.2	76.0	28.0	948			65.0	98.0	30.0		-	
Chamba	R	Regional Office Chamba	46.9	48.1	42.6		51	-	73.2	103.1	35.5	-	-	-

### ANNEXURE-II (a)

### RSPM(PM10) in ug/m<sup>3</sup>

## 24 Hour Standard for Industrial, Residential & Others=100 ug/m3

				Pre Di	wali Mor	itoring			Diwali Day			Post I	Diwali M	onitoring	g	
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	34.0	30.0	28.0	44.0	41.0	59.0	35.0	34.0	48.0	55.0	56.0	54.0	70.0	52.0	79.0
Tekka Bench, The	2PM-10PM	43.0	42.0	43.0	72.0	69.0	74.0	68.0	84.0	67.0	66.0	67.0	80.0	86.0	59.0	87.0
Mall, Shimla	10PM-6AM	30.0	21.0	25.0	44.0	51.0	46.0	23.0	79.0	69.0	53.0	59.0	52.0	64.0	66.0	78.0
	24 hour Avg.	35.7	31.0	32.0	53.3	53.7	59.7	42.0	65.7	61.3	58.0	60.7	62.0	73.3	59.0	81.3
	6AM-2PM	26.9	62.8	80.2	95.1	97.2	88.4	149.3	116.9	96.6	93.4	111.7	97.0	134.0	123.0	187.0
Parwanoo,	2PM-10PM	44.8	65.9	102.6	97.0	116.5	102.2	107.2	365.5	151.4	128.2	164.6	131.1	175.0	193.0	205.0
Sector-IV	10PM-6AM	42.1	62.7	90.5	96.2	77.3	67.8	140.9	202.2	113.0	82.7	70.1	99.0	120.0	149.0	192.0
	24 hour Avg.	38.0	64.0	91.0	96.0	97.0	86.0	133.0	228.0	120.0	101.0	115.0	109.0	143.0	155.0	195.0
	6AM-2PM	40.0	31.0	39.0	58.0	82.0	54.0	59.0	49.0	48.0	69.0	51.0	48.0	64.0	63.0	43.0
Residential Building	2PM-10PM	80.0	58.0	64.0	96.0	100.0	90.0	114.0	246.0	92.0	54.0	71.0	61.0	96.0	95.0	86.0
Dari Dharamshala	10PM-6AM	16.0	22.0	31.0	44.0	44.0	41.0	30.0	43.0	52.0	51.0	32.0	35.0	66.0	51.0	57.0
	24 hour Avg.	45.3	37.0	44.7	66.0	75.0	62.0	68.0	113.0	64.0	58.0	51.0	48.0	75.0	70.0	62.0
	6AM-2PM	59.0	59.0	58.0	56.0	65.0	61.0	62.0	82.0	114.0	71.0	35.0	66.0	69.0	76.0	68.0
Ram Gopal Mandir,	2PM-10PM	66.0	68.0	69.0	58.0	59.0	72.0	109.0	114.0	168.0	92.0	54.0	57.0	74.0	86.0	79.0
Damtal	10PM-6AM	52.0	53.0	59.0	60.0	49.0	54.0	76.0	98.0	104.0	60.0	36.0	41.0	54.0	54.0	49.0
	24 hour Avg.	59.0	60.0	62.0	58.0	58.0	62.0	82.0	98.0	129.0	74.0	42.0	55.0	66.0	72.0	65.0

			-		ANN	EXURE	-II (a) (	RSPM)								
				Pre D	iwali Mo	nitoring			Diwali Day	i		Post	Diwali N	Ionitorin	ıg	
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	77.0	64.0	77.0	102.0	104.0	105.0	106.0	94.0	144.0	101.0	107.0	97.0			-
Regional Laboratory,	2PM-10PM	89.0	40.0	77.0	122.0	96.0	80.0	115.0	104.0	103.0	57.0	71.0	74.0			
SunderNagar	10PM-6AM	49.0	66.0	63.0	150.0	78.0	44.0	72.0	121.0	119.0	73.0	99.0	86.0			
W.	24 hour Avg.	72.0	57.0	72.0	125.0	93.0	76.0	98.0	106.0	122.0	77.0	92.0	86.0	92.0	92.0	102.0
	6AM-2PM	131.7	104.7	62.1	123.4	118.9	109.2	95.9	124.7	130.0	74.2	64.3	86.1	83.3	127.3	
Office Building, Shubkhera, Poanta	2PM-10PM	113.7	109.7	127.9	124.8	129.8	134.3	134.0	273.8	114.3	83.5	116.2	105.0		-	
Sahib	10PM-6AM	139.8	102.5	162.9	122.8	124.7	113.1	158.0	103.1	123.8	61.2	111.6	96.0	150.4	119.9	116.6
	24 hour Avg.	128.4	105.7	117.6	123.7	124.4	118.9	129.3	167.2	122.7	73.0	97.4	95.7	127.2	125.8	128.5
	6AM-2PM	16.44	35.91	49.61	44.57	56.91	59.40	84.37	90.15	55.90	52.81	50.78	58.00	63.73	59.92	98.57
Frilokpur,	2PM-10PM	33.53	38.82	50.20	50.14	58.55	65.54	60.39	82.68	68.09	62.30	54.22	58.18	75.42	70.38	98.05
Kala Amb	10PM-6AM	22.53	19.13	35.42	27.22	53.97	41.62	56.42	79.74	34.38	42.21	58.28	38.67	63.94	58.39	81.67
	24 hour Avg.	24.17	31.29	45.08	40.64	56.48	55.52	67.06	84.19	52.79	52.44	54.43	51.62	67.70	62.90	92.76
	6AM-2PM	90.41	76.87	121.87	138.33	53.75	123.95	81.87	74.58	73.54	104.17	86.04	96.04	127.70	113.12	120.00
Regional Office, Una	2PM-10PM	79.37	112.70	97.91	149.37	144.79	92.29	94.79	164.37	99.37	158.13	83.33	32.50	154.58	159.37	110.00
-gomi onic, cha	10PM-6AM	-	-	-	-	-		81.25	101.04	139.37	-	-	-		-	110.00
	24 hour Avg.	84.89	94.79	109.89	143.85	99.27	108.12	85.97	113.33	104.09	131.15	84.69	64.27	141.14	136.25	115.00
	6AM-2PM	94.0	91.0	69.0	76.0	99.0	89.0	90.0	119.0	107.0	103.0	99.0	91.0	88.0	86.0	101.0
ecure Meter, Baddi	2PM-10PM	106.0	93.0	83.0	114.0	102.0	103.0	111.0	160.0	121.0	109.0	92.0	96.0	96.0	104.0	146.0
Daudi	10PM-6AM	99.0	88.0	116.0	102.0	107.0	96.0	101.0	195.0	102.0	99.0	95.0	86.0	98.0	87.0	108.0
	24 hour Avg.	99.7	90.7	89.3	97.8	102.7	96.0	100.7	158.0	110.0	103.0	95.3	91.0	94.0		118.3

					ANNE	EXURE-	·II (a) (F	RSPM)						11.5		
			40	Pre Di	wali Mon	itoring			Diwali Day			Post I	Diwali M	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	92.0	-	68.0	72.0	69.0	75.0	83.0	105.0	95.0	92.0	87.0	84.0	95.0	82.0	83.0
Durga Devi Temple,	2PM-10PM	74.0	92.0	94.0	105.0	80.0	86.0	104.0	143.0	114.0	109.0	90.0	89.0	80.0	83.0	86.0
Nalagarh	10PM-6AM	90.0	84.0	88.0	94.0	119.0	100.0	95.0	180.0	97.0	100.0	91.0	85.0	83.0	76.0	88.0
	24 hour Avg.	85.3	88.0	83.3	90.3	89.3	87.0	94.0	142.7	102.0	100.0	89.3	86.0	86.0	80.3	85.7
	6AM-2PM	28.4	28.4	30.3	32.8	36.4	40.0	32.3	53.6	58.1	38.1	39.6	23.1	19.5	29.5	49.4
Hadimba Mata Road,	2PM-10PM	32.8	32.2	27.5	32.2	78.8	82.8	83.0	99.2	86.6	74.7	71.0	56.1	52.1	45.5	45.7
Manali	10PM-6AM	22.7	18.6	26.0	26.8	18.0	16.7	32.6	88.4	34.9	45.1	9.7	18.6	11.4		- 100
	24 hour Avg.	28.0	26.4	27.9	30.6	44.4	46.5	49.3	80.4	59.9	52.6	40.1	32.6	27.7	15.2 30.1	39.3

	*					ANNE	XURE-	II (b)								
			24 11	our Stor	doud fo		x in ug/r		& Other		12					
			24 H		wali Mo			ідеппаі	Diwali Day	. 0	/m3	Post D	Diwali M	onitorin	g	
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	9.1	4.5	9.1	9.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.6	4.5	9.1	10.1
	OAWI-2F WI	10.5	9.6	11.4	10.5	9.1	10.1	10.1	11.0	10.1	10.5	11.4	15.3	10.5	4.5	11.9
Table Desch The	2PM-10PM	11.9	12.8	12.8	13.3	12.3	13.3	13.3	12.8	12.8	11.4	12.3	11.9	12.8		12.3
Tekka Bench, The Mall, Shimla		10.1	12.3	9.6	10.1	10.1	11.0	12.3	16.9	17.4	15.5	12.8	4.5	11.9	12.3	11.9
2	10PM-6AM	4.5	10.1	4.5	4.5	4.5	4.5	11.9	17.8	13.3	11.9	11.2	10.1	9.6	14.2	9.1
2		4.5	4.5	4.5	4.5	4.5	4.5	4.5	24.7	11.9	9.1	10.1	9.1	9.1	4.5	4.5
2	24 hour Avg.	8.4	9.0	8.7	8.8	7.5	8.0	9.4	14.6	11.7	10.5	10.4	10.1	9.7	8.9	10.0
	6AM-2PM	5.6	3.2	2.8	7.9	6.9	3.7	5.1	2.3	6.9	5.6	4.2	4.6	7.4	6.0	6.9
		7.9	5.3	6.9	7.2	8.3	6.0	7.9	4.6	6.0	4.7	3.7	5.1	6.5	4.2	7.4
Parwanoo,	2PM-10PM	9.7	4.9	7.9	8.3	10.6	5.1	7.4	7.4	6.5	6.0	11.1	8.8	6.0	6.5	10.2
Sec-IV 10 24		7.0	5.1	6.0	6.9	8.4	6.5	11.1	13.9	6.9	6.5	9.7	10.2	4.2	6.9	9.7
	10PM-6AM	7.9	2.8	5.1	6.0	11.6	20.4	6.9	3.2	6.5	4.2	8.4	3.2	4.6	5.1	6.5
		8.8	6.0	7.4	8.8	7.9	13.9	6.5	5.6	7.4	3.2	3.7	4.2	6.0	5.6	4.2
	24 hour Avg.	7.8	4.5	4.5	4.5	4.5	9.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5.
	6AM-2PM	5.37	4.47	5.37	5.81	5.81	8.05	6.71	8.10	7.15	6.26	7.15	7.60	6.71	7.15	Power Cut
		6.71	6.71	6.36	8.04	7.15	11.18	8.05	10.23	9.39	8.05	8.05	8.50	7.60	8.05	5.60
	2PM-10PM	8.45	8.94	7.60	7.60	8.50	7.60	10.28	12.52	11.18	9.84	9.34	9.39	8.94	9.39	7.15
Building Dari Dharamshala	21 11 101 11	8.94	9.39	8.94	9.39	9.84	8.94	11.92	14.76	13.41	11.63	12.07	10.28	10.73	8.50	8.50
(795)	10DM 6434	6.26	5.37	6.71	8.04	6.71	8.50	7.60	13.41	11.63	10.73	5.37	9.84	9.39	6.71	7.60
	10PM-6AM	4.92	6.26	6.26	6.26	6.26	8.94	8.50	10.73	9.84	8.50	4.47	8.05	7.15	5.96	6.70

	24 hour Avg.	6.78 (BDL)	6.86 (BDL)	6.86 (BDL)	, ,		8.87 (BDL) URE-II	,	11.63	10.43	9.17	7.74 (BDL			7.63 (BDL)	7.11 (BDL)
		T		Pre Di	wali Mo			(b) NO <sub>X</sub>	Diwali Day			Post D	Diwali M	onitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	4.92	4.02	4.02	4.92	4.29	5.37	4.47	5.37	6.71	5.81	4.47	4.02	3.13	2.68	3.58
		9.20	7.15	4.92	10.28	9.39	7.15	7.60	9.39	8.94	10.28	9.39	5.81	5.37	8.50	8.46
Dom Const	2PM-10PM	8.94	10.28	10.28	8.94	8.05	8.35	10.73	9.84	10.73	11.18	10.73	9.39	8.50	8.50	8.05
Ram Gopal Mandir Damtal		9.84	10.28	9.84	5.37	6.71	7.60	9.84	11.18	10.28	11.63	8.05	8.50	9.84	8.94	8.94
	10PM-6AM	6.26	5.37	6.26	10.28	6.71	7.15	8.94	9.84	6.75	8.50	8.05	7.60	6.71	7.60	6.71
		4.47	4.47	4.92	4.92	4.47	3.58	5.81	5.81	5.37	6.26	5.81	6.71	5.37	6.26	5.81
	24 hour Avg.	7.27 (BDL)	6.93 (BDL)	6.71 (BDL)	7.45 (BDL)	6.6 (BDL)	6.53 (BDL)	7.90 (BDL)	8.57 (BDL)	8.13 (BDL)	8.94 (BDL)	7.75 (BDL)	7.01 (BDL)	6.49	7.08	6.93
	6AM-2PM	5.99	5.57	5.57	5.14	6.00	5.14	5.58	6.43	6.00	6.43	6.43	5.14	(BDL) 4.29	(BDL) 4.72	(BDL) 5.14
	UAW-21 W	5.62	6.85	6.86	6.43	6.86	6.43	6.86	7.29	7.29	7.29	7.29	7.72	5.14	5.58	6.86
	2PM-10PM	6.43	7.29	7.29	6.86	8.15	7.72	7.29	8.15	8.58	8.15	6.86	6.43	6.86	6.86	7.71
		8.14	8.15	8.15	7.72	7.29	8.58	8.15	9.00	9.00	8.58	7.72	6.00	6.00	7.71	8.15
ounder Magai	10PM-6AM	6.86	6.43	6.43	7.29	6.43	6.86	6.43	6.86	6.86	7.72	6.00	5.58	7.72	8.15	6.43
		5.57	6.00	6.00	6.00	5.14	6.00	5.14	6.00	6.43	6.86	4.29	4.29	4.72	5.14	5.58
	24 hour Avg.	6.44	6.72	6.72	6.57	6.65	6.79	6.58	7.29	7.36	7.51	6.43	5.86	5.79	6.36	6.65
	6AM-2PM	7.3	7.8	7.3	8.7	8.7	8.2	8.7	8.2	8.7	7.3	8.7	5.5	7.8	5.5	6.4
		8.2	8.7	8.2	8.2	9.2	8.7	8.2	8.7	8.7	8.2	8.2	7.3	7.3	6.9	6.9
Office Building,	2PM-10PM	7.8	7.8	7.8	7.8	8.2	10.0	10.1	10.1	9.6	7.3	8.2	11.0	8.2	8.2	7.8
hubkhera, oanta Sahib	2.1	8.2	8.2	8.7	8.7	9.8	8.7	9.6	9.6	10.1	9.6	8.7	5.5	7.3	9.1	7.3
	10PM-6AM	8.7	8.7	9.6	9.6	9.6	9.6	10.1	11.4	12.4	11.9	10.1	8.7	8.7	10.1	8.7
		8.2	8.2	10.1	9.2	8.2	8.7	9.6	12.8	12.8	12.8	8.7	7.8	9.6	10.5	10.1

	24 hour Avg.	8.1	8.2	8.6	8.7	8.9	9.0	9.4	10.1	10.4	9.5	8.8	7.6	8.2	8.4	7.8
						ANNEX	URE-II	(b) NOx				-				1
Area and	Ti-			Pre D	iwali M	onitorin	g		Diwali Day	- 10		Post I	Diwali M	Ionitorin	g	
Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	8.2	7.3	7.8	8.7	8.7	8.7	9.6	9.6	8.7	6.9	5.0	6.4	7.3	8.7	7.8
		9.2	9.2	9.2	9.2	10.5	9.6	10.5	10.4	6.9	7.8	8.2	5.5	7.8	6.0	7.8
Trilokpur,	2PM-10PM	8.2	8.2	8.2	8.2	7.8	8.7	10.1	10.1	9.2	9.6	7.8	7.3	8.7	7.8	7.3
Kala Amb		8.7	8.7	7.3	6.0	9.2	8.2	9.6	12.4	8.7	11.0	9.6	7.3	7.8	9.6	8.7
	10PM-6AM	10.1	9.6	10.5	10.5	9.2	8.7	10.0	11.4	11.9	10.1	9.6	8.2	9.6	7.3	8.2
		10.5	10.5	9.6	10.5	9.6	9.6	10.1	10.1	11.4	9.6	8.7	8.7	10.1	8.2	8.7
	24 hour Avg.	9.1	8.9	8.8	8.8	9.1	8.9	10.0	10.6	9.5	9.1	8.2	7.2	8.5	7.9	8.1
	6AM-2PM	13.9	11.6	13.9	12.0	13.0	10.6	9.7	11.6	10.6	14.3	12.0	11.1	11.6	11.1	12.0
		14.8	13.4	12.5	13.4	13.4	12.0	13.0	13.9	12.5	13.0	9.7	13.0	14.8	12.5	13.4
Secure Meter,	2PM-10PM	16.2	15.7	14.3	16.2	15.7	13.9	14.8	15.8	13.9	15.7	8.7	13.9	13.4	15.3	14.3
Baddi		13.4	16.2	14.8	15.3	15.3	15.3	17.6	17.6	15.7	10.2	17.1	15.7	11.1	14.3	15.7
	10PM-6AM	16.7	15.3	16.2	15.7	15.7	14.3	15.7	17.1	14.8	11.1	14.8	14.8	14.8	13.9	15.3
		14.3	13.4	14.8	13.9	14.8	13.4	13.4	15.3	13.4	12.5	13.0	13.4	12.0	12.0	14.3
	24 hour Avg.	14.9	14.3	14.4	14.4	14.6	13.3	14.0	15.2	13.5	12.8	12.5	13.6	13.0	13.2	14.2
	6AM-2PM	10.6	-	11.1	11.6	11.6	13.4	9.3	10.6	9.7	12.0	10.2	9.3	8.2	10.6	11.6
		11.5	-	12.5	13.0	14.3	12.0	11.1	13.0	12.0	11.6	8.2	11.1	13.0	9.7	14.8
ourga Devi emple,	2PM-10PM	13.0	11.6	13.9	13.9	13.4	13.9	13.4	13.9	11.1	9.3	13.0	12.0	13.9	11.6	9.7
alagarh		13.4	13.4	13.0	14.3	12.5	15.3	15.7	16.2	14.8	10.6	14.8	13.9	14.8	16.7	14.8
	10PM-6AM	10.2	12.0	13.0	12.5	13.9	14.3	14.3		13.9	15.3	11.6	13.0	13.9	14.8	11.6
		12.0	10.6	12.0	11.6	11.1	15.3	13.0	15.3	13.0	8.2	13.9	11.6	10.2	8.7	8.7

	24 hour Avg.	11.8	11.9	12.6	12.8	12.8	14.0	12.8	14.0	12.4	11.2	11.9	11.8	12.3	12.0	11.8
						ANNEX	URE-II	(b) NOx				12.17	11.0	12.3	12.0	11.
Area and	Time of			Pre Di	iwali Mo	nitoring			Diwali Day			Post D	iwali Mo	nitoring		
Location	sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	10.65	12.96	5.64	5.88	6.48	8.33	1.85	15.75	21.48	3.89	29.58	22.59	14.58		13.84
		4.45	5.60	4.49	8.50	4.63	11.90	2.78	4.63	5.69	2.25	12.96	11.76	6.80		11.85
Regional Office,	2PM-10PM	4.56	7.54	5.04	5.09	5.55	13.43	3.24	5.69	6.99	4.10	22.69	15.74	7.73		9.77
Una		4.50	8.16	1.34	2.77	2.46	9.63	4.17	6.02	11.43	2.68	12.50	7.96	3.89	1.06	5.46
	10PM-6AM	-	-	-	-		-	6.34	4.50	8.79	-	-	-	-	-	-
		-	-	-	-	-	-	1.38	4.50	5.37	1	-	-		-	
	24 hour Avg.	6.04	8.57	4.13	5.56	4.78	10.82	3.29	6.85	9.96	3.23	19.43	14.51	8.25	9.72	10.23
	6AM-2PM	3.8	3.8	4.9	3.8	4.1	5.1	7.9	7.8	8.9	6.3	9.6	4.1	3.8	4.7	5.0
		4.1	4.1	4.1	7.6	6.0	6.0	6.4	8.9	10.4	8.9	8.5	5.6	4.1	4.1	3.8
ladimba Mata	2PM-10PM	4.5	4.5	4.5	4.6	6.4	6.3	7.1	13.1	8.6	12.4	6.7	7.1	7.5	7.4	6.0
Road, Manali		4.9	4.9	4.9	4.9	5.2	5.2	6.3	11.9	9.7	10.1	7.8	6.7	6.0	6.4	6.9
	10PM-6AM	3.7	3.7	3.7	3.7	3.7	3.7	4.1	9.3	7.1	7.1	4.5	3.7	3.3	3.7	3.3
		3.7	3.7	4.9	5.0	6.2	4.7	7.4	15.7	8.1	7.1	4.5	3.7	3.3	i.80     13.38       i.73     14.54       i.89     1.06       -     -       25     9.72       i.8     4.7       i.1     4.1       i.5     7.4       i.0     6.4       3     3.7       3     6.2	4.5
ote:= - Monitorir	24 hour Avg.	4.1	4.1	4.5	4.9	5.3	5.2	6.6	11.1	8.8	8.7	6.9	5.1	4.7		4.9

## ANNEXURE-II (c)

	Mary Mary		2	4 Hour S	tandard	for Ind	O <sub>2</sub> in ug	/m³								
								esidentia	al & Othe		g/m3	17				
Area and	Time of	4	1 +		Diwali M		g		Diwal Day			Post	Diwali N	Ionitori	ng	
Location	sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2002
	6AM-2PM	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0	7/27			-
		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0	2
Tekka Bench,	2PM-10PM	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.
The Mall, Shimla		2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.4	2.9	2.0	2.0	2.0	2.0	2.0	2.
	10PM-6AM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.4	3.4	2.0	2.0	2.0	2.0	2.0	2.
		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.4	2.0	2.0	2.0	2.0	2.0	2.
	24 hour Avg.	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.9	2.5	2.0	92.0000	2.0	2.0	2.0	2.0
	6AM-2PM	1.6	1.2	1.8	1.2	0.4	1.8	1.4	0.7	1.2	1.0	0.8	2.0	2.0	2.0	2.0
		1.8	0.8	1.4	0.6	1.0	1.6	1.0	1.4	1.0	1.4	1.2	2.0	0.8	1.8	1.0
arwanoo	2PM-10PM	2.2	0.8	1.0	0.8	1.8	1.8	1.6	0.8	1.6	0.4	2.2	1.4	1.0	1.2	1.4
ector-IV	+	1.8	0.8	0.6	1.0	0.6	1.4	2.2	1.2	1.2	1.6	1.8	0.8	1.8	0.8	1.2
	10PM-6AM	1.0	1.9	1.2	1.2	1.6	2.8	1.8	2.0	0.8	0.8	1.0	1.2	1.6	1.0	1.8
		1.4	1.0	1.6	1.6	1.2	2.0	0.4	1.8	1.8	1.2	1.2	1.0	1.0	2.2	1.4
3	24 hour Avg.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.6
	6AM-2PM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	Powe
sidential		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0			cut
ilding Dari	2PM-10PM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0			2.0	2.0	2.0
aramshala 5)		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	_	2.0	2.0	2.0	2.0	2.0
	10PM-6AM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
			1					2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

	24 hour Avg.	(BDL)	2 (BDL)	2 (BDL)	(BDL)	(BDL)	(BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	(BDL)	2 (BDL)	2 (BDL)	(BDL)	2 (BDL)
		(DDE)					JRE-II (		(222)	(===)	(/	()	(/		/	,
				Pre Diw	ali Mon	itoring			Diwali Day			Post Di	wali Mo	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	CAM ODM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	6AM-2PM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	2017/1001	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Ram Gopal	2PM-10PM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Mandir Damtal	10004 (4)4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	10PM-6AM	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	24 hour Avg.	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	(BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)	2 (BDL)
		0.98	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
	6AM-2PM	0.65	0.98	1.48	0.98	0.98	0.98	0.98	1.48	0.98	0.98	1.48	0.98	0.98	0.49	0.98
Regional	2014 40014	0.98	0.49	0.98	1.48	0.98	1.48	1.48	0.98	0.98	1.48	0.98	0.49	0.98	0.98	1.48
Laboratory,	2PM-10PM	1.48	1.48	0.49	0.98	1.48	1.48	0.98	1.48	1.48	1.48	0.98	0.98	1.48	1.48	0.49
Sunder Nagar	100016 61116	0.49	0.98	0.49	0.98	0.49	0.98	0.49	0.98	0.49	0.98	1.48	1.48	0.49	0.98	0.49
	10PM-6AM	0.49	0.49	0.98	0.49	0.49	0.49	0.49	0.98	0.98	0.49	0.49	0.49	0.49	0.49	0.98
	24 hour Avg.	0.85	0.82	0.82	0.90	0.82	0.98	0.82	1.07	0.90	0.98	0.98	0.82	0.82	0.82	0.88
	(A) ( 2D) (	4.1	3.6	4.1	4.7	4.1	5.7	5.2	6.2	5.7	5.7	5.2	3.6	4.7	3.6	3.1
	6AM-2PM	4.1	4.7	4.1	4.7	5.7	6.2	4.7	7.8	6.2	6.2	3.6	2.1	1.0	2.1	2.1
Office Building,	2PM-10PM	4.7	5.2	5.7	5.7	5.2	6.7	5.7	6.2	4.1	5.7	4.1	9.3	6.2	8.3	6.2
Shubkhera,	ZPM-10PM	4.1	4.1	4.1	4.1	5.5	4.1	5.2	5.2	5.7	5.7	7.2	3.6	5.2	3.1	3.6
Poanta Sahib	10DM 6AM	4.7	4.7	4.7	4.7	4.7	4.7	5.2	5.2	8.3	5.2	6.2	3.1	3.6	3.6	3.1

	TOT IVI-OZIVI	3.1	3.6	3.6	5.2	4.1	3.6	5.7	5.7	7.8	6.2	6.7	4.1	3.6	4.1	4.1
	24 hour Avg.	4.1	4.3	4.4	4.8	4.9	5.2	5.3	6.0	6.3	5.8	5.5	4.3	4.0	4.1	3.7
					1	ANNEXU	URE-II (	c) SO2								
				Pre Div	vali Mon	itoring			Diwali Day			Post Di	wali Mo	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	£13£001£	3.6	4.7	5.2	5.2	4.7	5.2	5.2	5.7	3.6	4.7	6.2	1.6	2.6	1.6	3.1
	6AM-2PM	4.1	3.1	3.6	3.6	5.7	4.7	5.7	8.3	4.1	5.7	6.2	2.1	2.1	2.1	2.1
	2014 10014	4.7	4.7	4.1	5.2	6.7	5.2	6.2	7.2	5.2	4.1	5.7	9.3	6.2	7.2	7.6
Trilokpur, Kala	2PM-10PM	4.7	4.7	4.1	4.1	4.7	4.1	6.7	5.7	5.7	3.6	2.1	3.6	5.7	3.6	3.6
Amb	10014 (414	5.7	5.7	5.2	5.2	4.1	5.2	4.7	6.2	6.7	5.7	5.7	3.1	4.7	4.7	2.6
	10PM-6AM	4.7	5.7	4.7	6.2	4.7	5.7	5.7	6.2	6.2	6.7	1.6	4.1	4.1	4.1	4.7
	24 hour Avg.	4.6	4.7	4.5	4.9	5.1	5.0	5.7	6.5	5.3	5.1	4.6	4.0	4.2	3.9	3.9
	CAM 2DM	2.0	1.6	2.0	2.4	2.4	2.0	2.2	2.2	1.6	1.4	1.2	1.2	1.4	1.0	1.8
	6AM-2PM	2.2	1.4	2.6	2.8	2.8	2.8	2.8	2.8	2.6	2.4	3.2	1.8	2.4	1.6	2.0
	2DM 10DM	3.0	2.4	2.2	2.6	3.6	3.2	3.2	3.4	3.0	1.0	1.6	2.4	1.6	2.4	2.4
Secure Meter, Baddi	2PM-10PM	2.4	2.8	1.2	2.6	3.0	3.0	3.4	3.8	3.4	3.0	2.0	2.8	2.8	2.8	3.0
Dadui	10PM-6AM	3.2	2.6	2.0	3.0	2.8	2.6	3.0	3.6	3.2	1.6	2.4	3.0	2.2	2.6	3.4
	TOF IVI-OAIVI	2.6	2.2	2.8	2.8	2.6	2.4	3.2	3.4	2.4	2.0	0.6	2.2	1.8	2.0	2.6
	24 hour Avg.	2.6	2.2	2.2	2.7	2.9	2.7	3.0	3.2	2.7	1.9	1.9	2.3	2.1	2.1	2.6
	CAM 2DM	1.62	-	1.41	1.21	1.21	0.81	1.41	1.82	1.41	0.81	0.6	0.81	1.62	1.01	2.02
	6AM-2PM	1.82	-	1.82	2.02	0.81	1.41	1.82	2.02	1.82	1.82	1.62	1.41	0.81	2.02	1.62
Durga Devi	2PM-10PM	2.43	1.41	2.43	2.22	1.41	2.43	2.43	2.83	2.63	1.21	1.01	1.82	2.22	1.62	1.41
Temple,	2FWI-TUFWI	2.02	2.02	2.02	2.83	2.02	1.82	3.03	3.44	3.44	2.02	2.02	2.63	1.01	0.6	1.62
Nalagarh	10DM 6AM	1.41	1.82	2.63	2.63	1.82	1.21	2.83	3.24	2.83	1.62	1.62	2.22	1.41	2.02	1.01

	IOI IAI-OUMAI	2.22	1.41	2.02	2.22	1.41	1.62	2.83	2.83	2.02	2.62	1.02	1.62	2.02	1.41	
	24 hours Ave		COMMITTEE IN								2.63	1.82	1.62	2.02	1.41	1.41
	24 hour Avg.	1.92	1.66	2.05	2.18	1.44	1.55	2.39	2.69	2.35	1.68	1.44	1.75	1.51	1.44	1.51
					- 1	ANNEXU	KE-II (	C)SU2	D: 11							
				Pre Div	vali Mon	itoring			Diwali Day			Post Di	wali Mo	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	6.84	3.88	2.92	8.76	3.03	1.00	7.96	2.16	12.51	7.46	9.76	1.04	1.96	2.13	3.37
	OANI-21 WI	9.88	5.06	15.02	9.59	10.80	8.34	6.25	5.42	2.92	8.90	12.90	4.84	1.54	1.13	2.58
	2PM-10PM	2.08	5.01	9.17	15.43	12.20	5.84	7.09	13.35	8.34	5.10	12.47	2.12	1.62	6.50	6.30
Regional Office, Una	21 W-101 W	2.00	1.25	5.42	10.01	5.57	5.75	5.40	23.36	27.12	3.22	9.84	1.21	3.00	2.62	6.01
	10PM-6AM	-	-		-	E	-	7.92	2.12	3.75	- ,			-		-
	TOP IVI-OAIVI	-	-	-	-	5.	Z -	13.35	6.67	5.00	-	-	14.5	-	-	-
	24 hour Avg.	5.20	3.80	8.13	10.95	7.90	5.23	8.00	8.85	9.94	6.17	11.24	2.30	2.03	3.10	4.57
	6AM-2PM	1.6	1.6	1.0	1.6	1.2	2.0	1.9	3.2	3.2	1.6	2.9	1.2	1.2	1.0	2.1
	OAM-2FM	1.6	0.8	1.6	1.6	2.1	3.2	3.2	4.0	4.3	3.2	2.1	1.9	1.6	1.6	1.6
	2PM-10PM	1.6	1.6	1.6	1.6	2.1	3.2	3.2	5.6	4.0	3.2	2.6	2.4	1.9	2.4	2.4
Hadimba Mata Road, Manali	2FWI-TOFWI	2.4	2.4	2.4	2.4	1.9	2.4	3.2	4.8	4.0	3.2	1.9	1.6	1.9	2.4	2.1
	10PM-6AM	0.8	0.8	1.6	0.8	0.8	1.4	2.4	4.0	3.2	2.4	1.2	1.2	0.8	1.6	1.6
	TOF IVI-OAIVI	0.8	0.8	1.0	1.0	1.4	2.0	3.2	6.4	2.9	1.6	1.2	1.2	0.8	1.5	1.1
	24 hour Avg.	1.5	1.3	1.5	1.5	1.6	2.4	2.9	4.7	3.6	2.5	2.0	1.6	1.4	1.8	1.8

#### ANNEXURE-II (d)

### RSPM(PM2.5) in ug/m<sup>3</sup>

#### 24 Hour Standard for Industrial, Residential & Others=60 ug/m3

				Pre Di	wali Mo	nitoring			Diwali Day			Post Di	iwali Mo	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
Tekka Bench, The Mall, Shimla	24 hour Avg.	15.0	14.0	13.0	22.0	25.0	19.0	15.0	24.0	22.0	16.0	15.0	20.0	27.0	22.0	26.0
Parwanoo, Sector-IV	24 hour Avg.	9.0	17.0	39.0	40.0	41.0	36.0	42.0	95.0	57.0	38.0	39.0	37.0	37.0	40.0	42.0
Dari, Dharamshala	24 hour Avg.	24.0	22.0	27.0	40.0	45.0	41.0	41.0	41.0	38.0	29.0	30.0	21.0	38.0	42.0	26.0
Ram Gopal Mandir Damtal	24 hour Avg.	28.0	30.0	32.0	29.0	27.0	34.0	32.0	37.0	39.0	32.0	27.0	28.0	30.0	32.0	29.0
Regional Laboratory, Sunder Nagar	24 hour Avg.	34.0	27.0	35.0	56.0	24.0	36.0	45.0	52.0	59.0	40.0	49.0	43.0	38.0	43.0	52.0
Office Building, Shubkhera, Poanta Sahib	24 hour Avg.	42.0	22.2	28.1	30.4	29.2	44.5	56.1	53.2	42.6	30.9	18.9	53.5	45.7	44.1	35.0
Trilokpur, Kala Amb	24 hour Avg.	8.15	18.01	26.42	19.82	25.51	33.31	33.54	41.93	34.98	25.67	26.83	26.94	25.50	32.98	40.98
Regional Office, Una	24 hour Avg.	39.40	38.95	41.24	40.62	32.50	28.17	62.50	66.66	79.16	68.75	43.75	31.25	50.00	43.75	37.50
Secure Meter, Baddi	24 hour Avg.	41.7	41.7	42.5	45.6	50.0	42.4	45.8	59.4	51.0	45.8	41.7	45.7	45.8	50.9	54.2
Durga Devi Temple, Nalagarh	24 hour Avg.	37.5	37.4	37.5	41.7	41.7	37.5	41.4	50.9	46.6	41.7	37.5	38.2	37.5	37.5	41.7
Hadimba Mata Road, Manali	24 hour Avg.	12.9	8.8	9.2	9.5	14.9	14.0	14.8	22.7	14.1	13.6	9.9	8.6	12.6	14.0	14.2

### ANNEXURE-II (e)

### O<sub>3</sub> in ug/m3

#### 24 Hour Standard for Industrial, Residential & Others=100 ug/m3

				Pre Di	wali Moi	nitoring			Diwali Day			Post Di	wali Mo	nitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	5.6	5.3	5.6	5.9	6.5	6.9	8.0	13.3	11.8	12.4	13.2	8.1	8.0	8.9	8.5
Tekka Bench, The	2PM-10PM	5.9	6.3	6.5	6.8	7.5	8.2	11.4	15.1	14.4	14.8	16.5	13.6	14.5	12.3	15.2
Mall, Shimla	10PM-6AM	5.1	5.7	6.2	6.0	6.3	6.6	8.7	21.9	19.7	19.1	15.6	13.4	13.7	14.2	6.9
	24 hour Avg.	5.5	5.8	6.1	6.2	6.8	7.2	9.4	16.8	15.3	15.4	15.1	11.7	12.1	11.8	10.2
	6AM-2PM	1.5	1.2	1.7	2.1	1.7	1.1	1.7	1.6	3.6	2.4	2.1	1.3	2.6	1.6	2.4
Parwanoo, Sector-	2PM-10PM	2.1	1.2	1.6	1.8	1.6	1.5	2.3	1.4	3.7	2.6	1.3	1.4	3.1	2.3	2.1
IV	10PM-6AM	1.7	2.0	1.7	2.3	2.1	1.3	1.6	2.7	2.9	2.1	1.6	1.5	1.9	1.6	2.9
	24 hour Avg.	1.8	1.6	1.7	2.1	1.8	1.3	1.9	1.9	3.4	2.4	1.7	1.4	2.5	1.9	2.5
	6AM-2PM	1.23	0.72	0.90	0.94	1.00	1.47	1.40	1.51	1.37	1.26	1.12	1.65	1.55	1.37	1.35
Residential Building Dari	2PM-10PM	2.77	2.81	2.27	1.98	2.08	2.95	3.08	3.42	2.93	2.81	2.91	3.09	2.66	2.19	2.09
Dharamshala (705)	10PM-6AM	1.44	1.40	1.37	1.19	1.47	1.37	1.44	2.23	1.65	1.51	1.40	0.76	1.15	1.04	1.12
(795)	24 hour Avg.	1.85	1.64	1.51	1.37	1.52	1.93	1.97	2.39	1.99	1.86	1.81	1.83	1.79	1.53	1.52
	6AM-2PM	0.88	1.01	1.01	0.90	0.91	1.03	1.19	1.33	1.58	1.47	1.37	1.29	1.12	1.08	1.11
l x	2PM-10PM	1.04	1.26	1.04	1.04	1.26	1.46	1.23	1.76	1.93	2.19	1.87	1.65	1.33	1.26	1.15
Kam Gopai	10PM-6AM	0.76	0.86	1.18	1.37	0.86	0.90	1.22	1.62	1.69	1.76	1.51	1.19	1.22	1.37	1.08
	24 hour Avg.	0.89	1.04	1.06	1.10	1.01	1.13	1.21	1.57	1.75	1.81	1.58	1.38	1.22	1.24	1.11
	6AM-2PM	0.79	1.05	0.80	0.77	0.80	0.77	0.73	0.80	0.77	0.80	0.63	0.70	0.70	0.73	0.80
Regional	2PM-10PM	0.91	0.70	0.98	0.91	0.98	1.01	0.91	1.05	1.05	1.09	0.70	0.91	0.80	0.84	0.91
Laboratory, Sunder Nagar	10PM-6AM	0.80	0.77	0.91	0.73	0.70	0.73	0.67	0.84	0.80	0.73	0.84	0.73	0.91	0.91	1.05
24 6A degional aboratory, under Nagar	24 hour Avg.	0.83	0.84	0.90	0.80	0.83	0.84	0.77	0.90	0.87	0.87	0.72	0.78	0.80	0.83	0.92

		heko	- Si 11	4		ANNEX	URE-II	(e) O <sub>3</sub>								
				Pre D	iwali Mo	nitoring			Diwali Day		583 1 = 1 D	Post D	iwali Mo	onitoring		
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	2.8	2.4	2.8	2.7	3.0	3.1	3.1	3.4	3.6	3.3	2.6	3.3	3.5	3.8	3.3
Office Building, Shubkhera,	2PM-10PM	3.1	4.9	4.4	3.9	4.3	4.6	4.4	5.2	5.0	4.5	3.5	2.8	3.2	3.4	3.5
Poanta Sahib	10PM-6AM	3.8	3.2	3.0	3.6	3.9	3.8	4.1	3.6	3.8	3.7	3.2	3.2	3.0	2.9	2.7
	24 hour Avg.	3.2	3.5	3.4	3.4	3.7	3.8	3.8	4.1	4.1	3.8	3.1	3.1	3.2	3.3	3.2
	6AM-2PM	3.0	3.2	3.1	2.8	3.1	3.2	3.2	3.3	4.0	3.9	3.8	4.6	3.9	3.5	3.6
Trilokpur, Kala	2PM-10PM	2.8	3.4	3.2	3.4	3.9	4.9	4.6	5.0	4.5	4.5	2.6	4.1	4.1	3.9	3.4
Amb	10PM-6AM	2.3	3.1	2.9	3.0	3.8	3.6	4.3	3.9	4.2	4.0	3.7	2.2	3.3	3.6	3.8
	24 hour Avg.	2.7	3.2	3.1	3.1	3.6	3.9	4.0	4.1	4.2	4.1	3.4	3.6	3.8	3.7	3.6
in the Paris	6AM-2PM	3.04	2.43	0.08	0.22	4.20	3.50	4.19	7.97	3.70	2.35	3.02	4.27	1.54	1.92	2.30
Regional Office,	2PM-10PM	2.70	.2.39	0.14	1.06	4.44	3.90	7.77	6.06	6.13	4.61	1.69	5.89	1.10	2.60	1.86
Una	10PM-6AM	- 2	-	-	1.7.	-		2.70	4.68	2.80	-	-	-	-	_	-
	24 hour Avg.	2.87	2.41	0.11	0.64	4.32	3.70	4.89	6.24	4.21	3.48	2.36	5.08	1.32	2.26	2.08

### ANNEXURE-II (f)

## CO in mg/m<sup>3</sup>

24 Hour Standard for Industrial, Residential & Others=02 mg/m3

				Pre Di	wali Mo	nitoring			Diwali Day			Post D	iwali Mo	nitoring		Miles
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	0.30	0.49	0.08	0.29	0.48	0.37	0.22	0.74	0.98	0.95	0.47	0.43	0.47	0.48	0.18
Regional	2PM-10PM	0.19	0.49	0.08	0.29	0.48	0.09	0.29	0.70	0.74	1.27	0.03	0.10	0.28	0.08	0.42
Office, Una	10PM-6AM	-	- 1		-	-		0.79	0.70	1.13	-	-	-		-	
Y design	24 hour Avg.	0.25	0.49	0.08	0.29	0.48	0.23	0.43	0.71	0.95	1.11	0.25	0.27	0.38	0.28	0.30
	6AM-2PM	0.3	0.3	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5
Sector-4,	2PM-10PM	0.4	0.4	0.9	0.7	0.6	0.7	0.5	0.5	0.4	0.5	0.4	0.4	0.7	0.5	0.5
Parwanoo	10PM-6AM	0.4	0.4	0.5	0.5	0.5	0.6	0.3	0.7	0.4	0.4	0.3	0.4	0.6	0.5	0.6
	24 hour Avg.	0.4	0.4	0.7	0.6	0.5	0.6	0.4	0.5	0.4	0.4	0.3	0.4	0.5	0.5	0.5
	6AM-2PM	0.38	0.37	0.35	0.36	0.54	0.43	0.49	0.33	0.35	0.39	0.39	0.90	0.92	0.98	0.97
Regional Laboratory,	2PM-10PM	0.42	0.45	0.40	0.84	0.56	0.49	0.46	0.36	0.42	0.48	0.43	0.86	0.88	0.92	0.97
Sunder Nagar	10PM-6AM	0.45	0.47	0.41	0.89	0.61	0.68	0.58	0.57	0.50	0.51	0.51	0.56	0.90	0.72	0.84
	24 hour Avg.	0.42	0.43	0.39	0.70	0.57	0.53	0.51	0.42	0.42	0.46	0.44	0.77	0.90	0.87	0.93
	6AM-2PM	1.0	0.8	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.5	0.4	0.5	0.3	0.4
Trilokpur,	2PM-10PM	1.0	0.8	0.7	0.8	0.8	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.7	0.5	0.7
Kala Amb	10PM-6AM	0.9	0.6	0.6	0.6	0.5	0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.3	0.5
	24 hour Avg.	1.0	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.5	0.5	0.6	0.4	0.5
	6AM-2PM	0.0	0.8	0.2	0,4	0.5	0.6	0.8	0.5	0.1	0.3	1.3	0.2	0.6	0.5	0.5
Office Building,	2PM-10PM	0.9	0.4	0.8	0.5	0.1	0.4	0.8	0.3	0.7	1.1	0.1	0.8	0.4	0.9	0.5
hubkhera, oanta Sahib	10PM-6AM	1.1	0.5	0.7	0.4	0.1	0.4	0.8	0.1	0.4	1.2	0.1	0.8	0.3	0.8	0.4

	24 hour Avg.	0.6	0.6	0.6	0.4	0.2	0.5	0.8	0.3	0.4	0.9	0.5	0.6	0.5	0.7	0.4
	6AM-2PM	0.11	0.16	0.19	0.19	0.23	0.24	0.37	0.29	0.32	0.42	0.46	0.44	0.40	0.48	0.55
Tekka Bench	2PM-10PM	0.15	0.18	0.26	0.22	0.27	0.30	0.43	0.42	0.49	0.47	0.49	0.49	0.46	0.50	0.59
The Mall Shimla	10PM-6AM	0.10	0.14	0.15	0.16	0.16	0.18	0.28	0.34	0.36	0.34	0.40	0.39	0.37	0.43	0.51
	24 hour Avg.	0.12	0.16	0.20	0.19	0.22	0.24	0.36	0.35	0.39	0.41	0.45	0.44	0.41	0.47	0.55

### ANNEXURE-II (g)

### NH<sub>3</sub> in ug/m3

24 Hour Standard for Industrial, Residential & Others=400 ug/m3

				Pre D	iwali Mo	nitoring			Diwali Day		WA .	Post D	iwali Mo	nitoring	Į.	
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
The Market	6AM-2PM	1.1	0.8	0.6	0.8	0.8	0.7	0.6	0.7	0.9	0.9	0.7	1.0	0.8	0.8	0.8
	07.11.1 21.11	1.3	1.2	1.0	1.2	1.0	0.9	1.0	1.0	1.1	1.1	1.2	1.9	1.2	1.2	1.2
Tekka Bench,	2PM-10PM	1.5	1.8	1.9	1.5	1.6	1.9	2.0	1.2	1.3	1.2	1.4	1.4	1.4		1.4
The Mall, Shimla		1.3	2.0	2.2	1.9	1.8	1.7	2.1	1.3	1.7	1.4	1.5	1.0	0.9	1.1	1.3
	10PM-6AM	1.0	1.0	0.9	1.1	0.6	0.8	0.8	1.1	0.8	0.9	1.2	0.9	1.0	1.0	1.1
		0.9	0.8	0.8	0.8	0.9	1.0	0.8	0.6	0.7	0.8	0.9	0.8	0.7	0.8	1.0
	24 hour Avg.	1.2	1.3	1.2	1.2	1.1	1.2	1.2	1.0	1.1	1.1	1.2	1.2	1.0	1.0	1.1
	6AM-2PM	0.1	0.3	0.3	0.4	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3
	0.11.1 2.11.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3
Sector-4-	2PM-10PM	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
Residential	21 141-101 141	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3
Residential Parwanoo	10PM-6AM	0.3	0.2	0.4	0.3	0.3	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2
	TOT IVI-OAIVI	0.1	0.2	0.3	0.2	0.2	0.4	0.2	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.3
24	24 hour Avg.	0.2	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.3
	6AM-2PM	0.45	0.52	0.38	0.31	0.32	0.49	0.51	0.77	0.69	0.64	0.63	0.41	0.32	0.41	0.40
Residential Building Dari	2PM-10PM	0.97	0.90	0.58	0.59	0.54	0.90	0.89	1.07	0.92	0.84	1.02	0.73	0.69	0.58	0.54
	10PM-6AM	0.65	0.26	0.29	0.45	0.46	0.52	0.45	0.51	0.46	0.41	0.50	0.65	0.45	0.33	0.24
	24 hour Avg.	0.69	0.56	0.42	0.45	0.44	0.65	0.62	0.78	0.69	0.63	0.72	0.60	0.49	0.44	0.39

Part					Pre Di	wali Mo	nitoring			Diwali Day			Post Di	wali Mo	nitoring		
Part		- Control of the Control	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
Mandir Damta   10PM-6AM   0.27   0.24   0.46   0.37   0.32   0.26   0.42   0.56   0.54   0.63   0.46   0.43   0.41   0.43   0.44   0.45		6AM-2PM	0.31	0.33	0.29	0.33	0.33	0.29	0.37	0.45	0.50	0.46	0.42	0.40	0.36	0.38	0.42
Mandir Damta    10PM-6AM   0.27   0.24   0.46   0.37   0.32   0.26   0.42   0.56   0.54   0.63   0.46   0.43   0.41   0.43   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0.44   0	Ram Gopal	2PM-10PM	0.37	0.46	0.41	0.43	0.46	0.43	0.50	0.67	0.77	0.84	0.58	0.54	0.50	0.51	0.54
Campagna		10PM-6AM	0.27	0.24	0.46	0.37	0.32	0.26	0.42	0.56	0.54	0.63	0.46	0.43	0.41	0.43	0.45
Regional Laboratory, Sunder Nagar		24 hour Avg.	0.32	0.34	0.39	0.38	0.37	0.33	0.43	0.56	0.60	0.64	0.49	0.46	0.42	0.44	0.47
Regional Laboratory, Sunder Nagar    4.00   4.81   4.81   2.41   2.70   3.00   2.70   3.30   2.70   3.00   3.30   3.00   3.30   3.00   3.30   2.70     5.41   6.00   6.00   4.20   3.30   4.20   3.00   4.81   3.90   4.20   3.60   3.90   3.60   3.90   3.60   3.90   3.60   3.00   3.60   3.90   3.60   3.00   3.60   3.90   3.60   3.00     10PM-6AM   4.50   4.50   5.11   2.70   3.00   2.70   2.41   3.90   3.00   2.70   2.70   3.30   2.70   3.60   2.41   2.70     3.00   3.90   3.90   3.90   2.10   2.41   1.80   2.10   3.60   2.41   2.10   2.10   3.60   2.41   2.70     24 hour Avg.   4.27   4.80   4.91   2.85   2.95   3.00   2.60   3.75   2.90   3.05   2.85   3.15   3.05   2.95   3.00     6AM-2PM   1.3   1.2   1.1   1.2   1.3   1.4   1.5   1.8   1.9   1.9   1.9   1.6   1.7   1.4     1.3   1.2   1.1   1.2   1.3   1.4   1.5   1.8   1.9   1.9   1.9   1.6   1.7   1.4     1.4   1.5   1.4   1.4   1.8   1.5   2.1   2.6   2.7   2.0   1.8   1.6   1.8   1.7     Poanta Sahib   10PM-6AM   1.7   0.9   0.9   0.9   1.1   1.4   1.8   1.5   2.1   2.6   2.7   2.5   1.8   1.6   1.8   1.7     24 hour Avg.   1.4   1.2   1.1   1.2   1.4   1.8   1.5   2.1   2.6   2.7   2.5   1.8   1.6   1.8   1.7     24 hour Avg.   1.4   1.2   1.1   1.2   1.4   1.4   1.8   1.7   1.8   1.7   2.0   1.7   1.5   1.5     1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5     24 hour Avg.   1.4   1.2   1.1   1.1   1.4   1.4   1.8   2.0   2.1   2.0   1.9   2.0   2.0   1.9   1.5     1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5     1.8   1.9   1.0   1.1   1.1   1.4   1.4   1.8   2.0   1.9   2.0   2.0   1.9   2.0   2.1   2.0   1.5     1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.		C434 2D34	3.90	4.20	4.20	1.80	2.10	2.41	1.80	2.70	2.10	2.41	2.41	2.70	2.41	2.41	3.30
2PM-10PM		6AM-2PM	4.00	4.81	4.81	2.41	2.70	3.00	2.70	3.30	2.70	3.00	3.30	3.00	3.30	2.70	3.90
Sunder Nagar   10PM-6AM   1.5   1.4   1.6   1.7   1.8   1.5   1.7   1.8   1.7   1.8   1.7   1.5   1.5   1.5   1.5   1.5   1.5   1.4   1.4   1.8   1.7   1.8   1.7   2.0   1.7   1.5   1.5   1.5   1.5   1.5   1.6   1.7   1.5   1.5   1.5   1.6   1.7   1.5   1.5   1.6   1.7   1.5   1.5   1.6   1.7   1.5   1.5   1.7   1.8   1.7   1.8   1.7   2.0   1.7   1.5   1.5   1.5   1.5   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.1   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.4   1.4   1.8   2.0   1.9   2.0   2.0   1.9   2.0   2.1   2.0   1.7   1.9   1.5   1.7   1.9   1.5   1.7   1.9   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.	Regional	21 111 101 111	4.81	5.41	5.41	3.90	4.20	3.90	3.60	4.20	3.30	3.90	3.00	2.41	3.90	3.30	3.60
10PM-6AM	aboratory, under Nagar	2PM-10PM	5.41	6.00	6.00	4.20	3.30	4.20	3.00	4.81	3.90	4.20	3.60	3.90	3.60	3.00	2.70
3.00   3.90   3.90   2.10   2.41   1.80   2.10   3.60   2.41   2.10   3.60   2.41   2.70   2.41   2.70   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41   2.41	under Nagar	10DM 6AM	4.50	4.50	5.11	2.70	3.00	2.70	2.41	3.90	3.00	2.70	2.70	3.30	2.70	3.60	2.41
Office Building, Shubkhera, Poanta Sahib  1.3 1.2 1.1 1.2 1.3 1.4 1.5 1.8 1.9 1.9 1.9 1.6 1.7 1.4  2PM-10PM  1.4 1.5 1.4 1.4 1.8 1.5 2.1 2.6 2.7 2.0 1.8 1.6 1.8 1.7  1.9 1.9 1.9 1.6 1.7 1.4  1.4 1.5 1.4 1.4 1.8 1.5 2.1 2.6 2.7 2.0 1.8 1.6 1.8 1.7  1.0 1.4 1.5 1.4 1.4 1.8 1.5 2.1 2.6 2.7 2.5 1.8 1.6 1.8 1.7  1.0 1.7 0.9 0.9 0.9 1.1 1.4 1.8 1.7 1.8 1.7 2.0 1.7 1.5 1.5  24 hour Avg.  1.4 1.2 1.1 1.2 1.4 1.4 1.8 1.7 1.8 1.7 2.0 1.7 1.5 1.5  24 hour Avg.  1.4 1.2 1.1 1.2 1.4 1.4 1.8 2.0 2.1 2.0 1.9 2.0 1.9 1.6 1.7 1.5  1.2 1.0 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  1.2 1.0 1.1 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  1.0 1.2 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.2 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.1 1.0 1.0 1.0 1.0 1.1 1.1 1.2 1.6 1.8 2.0 1.9 1.7 1.9 1.7 1.9		TOPINI-OAM	3.00	3.90	3.90	2.10	2.41	1.80	2.10	3.60	2.41	2.10	2.10	3.60	2.41	2.70	3.00
1.3   1.2   1.1   1.2   1.3   1.4   1.5   1.8   1.9   1.9   1.9   1.6   1.7   1.4		24 hour Avg.	4.27	4.80	4.91	2.85	2.95	3.00	2.60	3.75	2.90	3.05	2.85	3.15	3.05	2.95	3.15
1.3   1.2   1.1   1.2   1.3   1.4   1.5   1.8   1.9   1.9   1.9   1.6   1.7   1.4			1.3	1.2	1.1	1.2	1.3	1.4	1.5	1.8	1.9	1.9	1.9	1.6	1.7	1.4	1.5
2PM-10PM		OAIVI-21 IVI	1.3	1.2	1.1	1.2	1.3	1.4	1.5	1.8	1.9	1.9	1.9	1.6	1.7	1.4	1.5
1.4   1.5   1.4   1.8   1.5   2.1   2.6   2.7   2.5   1.8   1.6   1.8   1.7	0,	2PM-10PM	1.4	1.5	1.4	1.4	1.8	1.5	2.1	2.6	2.7	2.0	1.8	1.6	1.8	1.7	1.6
10PM-6AM 1.7 0.9 0.9 0.9 1.1 1.4 1.8 1.7 1.8 1.7 2.0 1.7 1.5 1.5  24 hour Avg. 1.4 1.2 1.1 1.2 1.4 1.4 1.8 2.0 2.1 2.0 1.9 1.6 1.7 1.5  6AM-2PM 1.2 1.0 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  1.2 1.0 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  2PM-10PM 2PM-10PM 1.0 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  10PM-6AM 1.1 1.0 1.0 1.0 1.0 1.1 1.2 1.6 1.8 2.0 1.9 1.7 1.9 1.7 1.9			1.4	1.5	1.4	1.4	1.8	1.5	2.1	2.6	2.7	2.5	1.8	1.6	1.8	1.7	1.6
1.7   0.9   0.9   0.9   1.1   1.4   1.8   1.7   1.8   1.7   2.0   1.7   1.5   1.5	oanta Sanib	10PM-6AM	1.7	0.9	0.9	0.9	1.1	1.4	1.8	1.7	1.8	1.7	2.0	1.7	1.5	1.5	1.3
Amb    1.2   1.0   1.1   1.1   1.4   1.4   2.0   1.9   2.0   2.0   1.9   2.0   1.9   1.5		The second secon	1.7	0.9	0.9	0.9	1.1	1.4	1.8	1.7	1.8	1.7	2.0	1.7	1.5	1.5	1.3
1.2 1.0 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  Trilokpur, Kala  2PM-10PM  1.0 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.2 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.1 1.0 1.0 1.0 1.1 1.2 1.6 1.8 2.0 1.9 1.7 1.9 1.7 1.9		24 hour Avg.	1.4	1.2	1.1	1.2	1.4	1.4	1.8	2.0	2.1	2.0	1.9	1.6	1.7	1.5	1.5
Trilokpur, Kala Amb  1.2 1.0 1.1 1.1 1.4 1.4 2.0 1.9 2.0 2.0 1.9 2.0 1.9 1.5  1.0 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.2 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0  1.0 1.1 1.0 1.0 1.0 1.1 1.2 1.6 1.8 2.0 1.9 1.7 1.9 1.7 1.9		6AM-2PM	1.2	1.0	1.1	1.1	1.4	1.4	2.0	1.9	2.0	2.0	1.9	2.0	1.9	1.5	1.8
1.0 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0 1.7 1.9 1.0 1.0 1.0 1.0 1.0 1.1 1.2 1.6 1.8 2.0 1.9 1.7 1.9 1.7 1.9	6AM-2P		1.2	1.0	1.1	1.1	1.4	1.4	2.0	1.9	2.0	2.0	1.9	2.0	1.9	1.5	1.8
1.0 1.2 1.2 1.2 1.2 2.0 1.7 2.5 2.6 2.5 2.1 2.0 2.1 2.0 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.7 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9		2PM-10PM	1.0		1.2	1.2	1.2	2.0	1.7	2.5	2.6	2.5	2.1	2.0	2.1	2.0	2.1
10PM-6AM			1.0	1.2	1.2	1.2	1.2	2.0	1.7	2.5	2.6	2.5	2.1	2.0	2.1	2.0	2.1
		10PM-6AM		5557256		1.0	1.1	1.2	1.6	1.8	2.0	1.9	1.7	1.9	1.7	1.9	2.0
24 hour Avg. 1.1 1.1 1.1 1.1 1.2 1.5 1.8 2.1 2.2 2.1 1.9 2.0 1.9 1.8			1.1	1.0	1.0	1.0	1.1	1.2	1.6	1.8	2.0	1.9	1.7	1.9	1.7	1.9	2.0

M. Court of the	Mark Control			× 5		ANNE	XURE-	II (g)						10		
			. 4. 1	Pre Di	wali Mo	nitoring	V 62.5		Diwali Day	E.		Post Di	wali Mo	nitoring	<u>J</u> .3,	(1
Area and Location	Time of sampling	10/24/2024	10/25/2024	10/26/2024	10/27/2024	10/28/2024	10/29/2024	10/30/2024	10/31/2024	11/1/2024	11/2/2024	11/3/2024	11/4/2024	11/5/2024	11/6/2024	11/7/2024
	6AM-2PM	1.7	1.7	2.0	2.3	2.1	2.5	2.8	2.9	3.5	2.7	3.1	2.1	1.8	1:8	1.8
Hadimba Mata	2PM-10PM	2.0	2.0	2.1	2.1	2.5	2.5	2.6	3.4	2.9	3.0	2.5	2.5	2.4	2.5	2.5
Road, Manali	10PM-6AM	1.4	1.4	1.7	1.7	2.0	1.9	2.3	4.0	2.9	2.2	1.7	1.5	1.5	1.8	1.5
	24 hour Avg.	1.7	1.7	1.9	2.0	2.2	2.3	2.6	3.4	3.1	2.7	2.4	2.0	1.9	2.0	1.9
	6AM-2PM	13.68	7.28	10.66	6.28	8.33	9.10	9.92	4.89	6.90	5.68	3.13	3.11	5.90	5.87	6.3
	6AM-2PM	13.68	7.28	10.66	6.28	8.33	9.10	9.92	4.89	6.90	5.68	3.13	3.11	5.90	5.87	6.3
	2PM-10PM	13.87	6.39	10.49	7.96	12.67	13.24	14.79	5.03	7.20	7.72	2.25	4.27	4.52	4.67	7.0
Regional Office, Una	21 141-101 141	13.87	6.39	10.49	7.96	12.67	13.24	14.79	5.03	7.20	7.72	2.25	4.27	4.52	467	7.0
	10PM-6AM	-	-		-	-	-	7.18	2.93	6.24	-	-	-	-		-
		-	-	-	-	-		7.18	2.93	6.24	- "	-	-	-	-	-
	24 hour Avg.	13.78	6.84	10.58	7.12	10.50	11.17	10.63	4.28	6.78	6.70	2.69	3.69	5.21	5.47	6.68
	6AM-2PM	5.0	4.0	5.0	5.0	4.9	6.4	5.0	6.0	5.3	5.0	6.1	6.0	4.7	7.0	4.7
Ourga Devi Temple,	2PM-10PM	6.1	5.5	5.0	5.4	4.0	5.0	6.4	6.3	5.0	5.0	6.0	6.1	5.0	6.0	5.0
Valagarh	10PM-6AM	6.0	4.0	5.0	5.0	4.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	7.4	5.0
	24 hour Avg.	5.7	4.5	5.0	5.1	4.3	5.8	5.8	6.1	5.1	5.0	5.7	5.7	4.9	6.8	4.9

	nn			-	т	п	
- 0	$\mathbf{n}\mathbf{n}$	ext	ır	-	•		

					v	Tekka Bench	, Shimla (34)					
			Regulatory l	Parameters						Prop	oosed New Param	eters
								Metals in PM10		Meta	als/Elements in PN	M 2.5
Date	(m.3)	/m3)	g/m3)	ıg/m3)	/m3	g/m3					In ug/m3	×
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	AI	Fe	Ba
10/24/2024	2.0	8.4	35.7	15.0	5.5	1.18	ND	ND	ND	ND	1.06	0.09
10/25/2024	2.0	9.0	31.0	14.0	5.8	1.27	ND	ND	ND	ND	2.05	0.06
10/26/2024	20	8.7	32.0	13.0	6.1	1.23	ND	ND	ND	ND	1.06	0.08
10/27/2024	2.0	8.8	53.3	22.0	6.2	1.22	ND	ND	ND	ND	1.78	0.62
10/28/2024	20	7.5	53.7	25.0	6.8	1.12	ND	ND	ND	ND	2.64	3.24
10/29/2024	2.0	8.0	59.7	19.0	7.2	1.17	ND	ND	ND	ND	1.00	ND
10/30/2024	2.2	9.4	42.0	15.0	9.4	1.22	ND	ND	ND	ND	1.13	0.63
10/31/2024	29	14.6	65.7	24.0	16.8	0.98	ND	ND	ND	ND	0.80	0.64
11/1/2024	2.5	11.7	61.3	22.0	15.3	1,08	ND	ND	ND	ND	1.03	1.57
11/2/2024	2.0	10.5	58.0	16.0	15.4	1.05	ND	ND	ND	ND	1.49	ND
11/3/2024	2.0	10.4	60.7	15.0	15.1	1.15	ND	ND	ND	ND	1.53	ND
11/4/2024	2.0	10.1	62.0	20.0	11.7	1.17	ND	ND	ND	ND	1.29	ND
11/5/2024	2.0	9.7	73.3	27.0	12.1	1.00	ND	ND	ND	ND	0.74	ND
11/6/2024	2.0	8.9	59.0	22.0	11.8	0.98	ND	ND	ND	ND	0.76	0.05
11/7/2024	2.0	10.0	81.3	26.0	10.2	1.13	ND	ND	ND	ND	1.10	0.12

1100							
A	n	n	PX	mi	-0	-81	

Parwanoo,	Sector-IV	(132)
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	Regulatory Parameters											meters
3)	(m3)	m3)	(m3)	8	m3	n3		Metals in PM10		Meta	ds/Elements in F	'M 2.5
SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	CO mg/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	AI	Fe	Ba
2.0	7.8	38.0	9.0	1.8	0.19	0.35	ND	ND	ND	ND	0.000	ND
2.0	4.5	64.0	17.0	1.6	0.21	0.37	ND	ND	ND	ND	0.525	228.14
2.0	4.5	91.0	39.0	1.7	0.30	0.67	ND	ND	ND	ND	0.000	5580.30
2.0	4.5	96.0	40.0	2.1	0.30	0.57	ND	ND	ND	ND	1.200	1986.36
2.0	4.5	97.0	41.0	1.8	0.26	0.49	ND	ND	ND	ND	10.890	2423.63
2.0	9.3	86.0	36.0	1.3	0.36	0.56	ND	ND	ND	ND	13.530	492.28
2.0	4.5	133.0	42.0	1.9	0.30	0.41	ND	ND	ND	ND	9.717	1133.72
2.0	4.5	228.0	95.0	1.9	0.29	0.53	ND	ND	ND	ND	0.863	863.94
2.0	4.5	120.0	57.0	3.4	0.27	0.36	ND	ND	ND	ND	12.204	ND
2.0	4.5	101.0	38.0	2.4	0.22	0.38	ND	ND	ND	ND	0	872.31
2.0	4.5	115.0	39.0	1.7	0.31	0.33	ND	ND	ND	ND	2.033	ND
2.0	4.5	109.0	37.0	1.4	0.25	0.37	ND	ND	ND	ND	1.887	145.08
2.0	4.5	143.0	37.0	2.5	0.26	0.52	ND	ND	ND	ND	0.933	28138.2
2.0	4.5	155.0	40.0	1.9	0.21	0.47	ND	ND	ND	ND	2.27	136.98
2.0	4.5	195.0	42.0	2.5	0.27	0.52	ND	ND	ND	ND	3.608	ND

a managed and expension	
ANNEX	IIDE-III
LUTATATION.	CREE-111

					Resid	lential Building D	ari Dharamshala	(795)						
		ž	Regulatory	Parameters						Proposed New Parameters				
								Metals in PM10		Met	als/Elements in P	M 2.5		
Date	m3)	/m3)	y/m3)	g/m3)	ш3	/m3				In ug/m3				
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	Al	Fe	Ba		
10/24/2024	2 (BDL)	6.78 (BDL)	45.3	24.0	1.9	0.69	ND	ND	ND	ND	0.276	5.009		
10/25/2024	2 (BDL)	6.86 (BDL)	37,0	22.0	1.6	0.56	0.007	ND	ND	ND	0.024	0.864		
10/26/2024	2 (BDL)	6.86 (BDL)	44.7	27.0	1.5	0.42	ND	ND	ND	ND	ND	0.028		
10/27/2024	2 (BDL)	7.52 (BDL)	66.0	40.0	1.4	0.45	0.175	ND	ND	ND	0.053	0.097		
10/28/2024	2 (BDL)	7.38 (BDL)	75.0	45.0	1.5	0.44	0.008	ND	ND	ND	0.165	0.575		
10/29/2024	2 (BDL)	8.87 (BDL)	62.0	41.0	1.9	0.65	ND	ND	ND	ND	ND	0.242		
10/30/2024	2 (BDL)	8.84 (BDL)	68.0	41.0	2.0	0.62	0.222	ND	ND	ND	ND	0.213		
10/31/2024	2 (BDL)	11.6	113.0	41.0	2.4	0.78	0.549	ND	ND	. ND	0.031	1.578		
11/1/2024	2 (BDL)	10.4	64.0	38.0	2.0	0.69	ND	ND	ND	ND	ND	0.213		
11/2/2024	2 (BDL)	9.2	58.0	29.0	1.9	0.63	ND	ND	ND	ND	ND	0.195		
11/3/2024	2 (BDL)	7.74 (BDL)	51.0	30.0	1.8	0.72	ND	ND	ND	ND	0.106	0.277		
11/4/2024	2 (BDL)	8.94 (BDL)	48.0	21.0	1.8	0.60	ND	ND	ND	ND	0.166	0.337		
11/5/2024	2 (BDL)	8.42 (BDL)	75.0	38.0	1.8	0.49	ND	ND	ND	ND	ND	0.050		
11/6/2024	2 (BDL)	7.63 (BDL)	70.0	42.0	1.5	0.44	ND	ND	ND	ND	ND	0.013		
11/7/2024	2 (BDL)	7.11 (BDL)	62.0	26.0	1.5	0.39	ND	ND	ND	ND	ND	0.085		

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						Ram Go	oal Mandir, Dan	ntal (271)						
			Regulatory l	Parameters							Proposed New Parameters			
	7-1								Metals in PM10		Meta	als/Elements in P	M 2.5	
Date	m3)	(m3)	y/m3)	g/m3)	m3	y/m3	y/m3		1			In ug/m3		
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	CO mg/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	Al	Fe	Ва	
10/24/2024	2 (BDL)	7.27 (BDL)	59.0	28.0	0.9	0.32	0.42	ND	ND	ND	ND	0.105	0.192	
10/25/2024	2 (BDL)	6.93 (BDL)	60.0	30.0	1.0	0.34	0.43	ND	ND	ND	ND	ND	0.593	
10/26/2024	2 (BDL)	6.71 (BDL)	62.0	32.0	1.1	0.39	0.39	0.015	ND	ND	ND	ND	0.178	
10/27/2024	2 (BDL)	7.45 (BDL)	58.0	29.0	1.1	0.38	0.70	0.023	ND	ND	ND	ND	0.248	
10/28/2024	2 (BDL)	6.6 (BDL)	58.0	27.0	1.0	0.37	0.57	ND	ND	ND	ND	ND	0.238	
10/29/2024	2 (BDL)	6.53 (BDL)	62.0	34.0	1.1	0.33	0.53	0.084	ND	ND	ND	ND	0.21	
10/30/2024	2 (BDL)	7.90 (BDL)	82.0	32.0	1.2	0.43	0.51	ND	ND	ND	ND	ND	0.242	
10/31/2024	2 (BDL)	8.57 (BDL)	98.0	37.0	1.6	0.56	0.42	ND	ND	ND	ND	ND	1.02	
11/1/2024	2 (BDL)	8.13 (BDL)	129.0	39.0	1.8	0.60	0.42	ND	ND	ND	ND	ND	0.061	
11/2/2024	2 (BDL)	8.94 (BDL)	74.0	32.0	1.8	0.64	0.46	ND	ND	ND	ND	ND	0.084	
11/3/2024	2 (BDL)	7.75 (BDL)	42.0	27.0	1.6	0.49	0.44	ND	ND	ND	ND	ND	0.069	
11/4/2024	2 (BDL)	7.01 (BDL)	55.0	28.0	1.4	0.46	0.77	ND	ND	ND	ND	ND	0.081	
11/5/2024	2 (BDL)	6.49 (BDL)	66.0	30.0	1.2	0.42	0.90	ND	ND	ND	ND	ND	0.072	
11/6/2024	2 (BDL)	7.08 (BDL)	72.0	32.0	1.2	0.44	0.87	ND	ND	ND	ND	ND	0.072	
11/7/2024	2 (BDL)	6.93 (BDL)	65.0	29.0	1.1	0.47	0.93	ND	ND	ND	ND	ND	0.097	

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					R	egional Office, Su	ınder Nagar (665	)					
			Regulatory P	arameters						Proposed New Parameters			
					- II *			Metals in PM10		Meta	als/Elements in P!	M 2.5	
Date	m3)	m3)	/m3)	g/m3)	m3	y/m3				17.7	In ug/m3		
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	AI	Fe	Ba	
10/24/2024	0.8	6.4	72.0	34.0	0.8	4.27	ND	ND	ND	ND	ND	0.057	
10/25/2024	0.8	6.7	57.0	27.0	0.8	4.80	ND	ND	ND	ND	ND	0.325	
10/26/2024	0.8	6.7	72.0	35.0	0.9	4.91	ND	ND	ND	ND	ND	0.122	
10/27/2024	0.9	6.6	125.0	56.0	0.8	2.85	ND	ND	ND	ND	0.112	ND	
10/28/2024	0.8	6.6	93.0	24.0	0.8	2.95	ND	ND	ND	ND	0.088	0.225	
10/29/2024	1,0	6.8	76.0	36.0	0.8	3.00	ND	ND	ND	ND	ND	0.283	
10/30/2024	0.8	6.6	98.0	45.0	0.8	2.60	ND	ND	ND	ND	0.151	0.324	
10/31/2024	1.1	7.3	106.0	52.0	0.9	3.75	ND	ND	ND	ND	0.159	1.075	
11/1/2024	0.9	7.4	122.0	59.0	0.9	2.90	ND	ND	ND	ND	0.144	0.228	
11/2/2024	1.0	7.5	- 77.0	40.0	0.9	3.05	ND	ND	ND	ND	ND	0.265	
11/3/2024	1.0	6.4	92.0	49.0	0.7	2.85	ND	ND	ND	ND	ND	0.225	
11/4/2024	0.8	5.9	86.0	43.0	0.8	3.15	ND	ND	ND	ND	ND	0.372	
11/5/2024	0.8	5.8	92.0	38.0	0.8	3.05	ND	ND	ND	ND	ND	0.08	
11/6/2024	0.8	6.4	92.0	43.0	0.8	2.95	ND	ND	ND	ND	ND	0.29	
11/7/2024	0.9	6,6	102.0	52.0	0.9	3.15	ND	ND	ND	ND	0.123	0.16	

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						Office Building,	Shubkhera, Po		)				,1 1 1
			Regu	ulatory Parame							Prop	osed New Parar	neters
									Metals in PM10		Meta	ls/Elements in F	PM 2.5
Date	/ш3)	/m3)	g/m3)	g/m3)	/m3	g/m3	g/m3				In ug/m3		
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2,5 (ug/m3)	O3 ug/m3	NH3 ug/m3	СО тg/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	AI	Fe	Ва
10/24/2024	4.1	8.1	128.4	42.0	3.2	1.43	0.64	0.01	BDL	BDL	BDL	0.3	1.94
10/25/2024	4.3	8.2	105.7	22.2	3.5	1.19	0.58	BDL	BDL	BDL	BDL	BDL	1.84
10/26/2024	4.4	8.6	117.6	28.1	3.4	1.14	0.59	BDL	BDL	BDL	BDL	0.05	0.28
10/27/2024	4.8	8.7	123.7	30.4	3.4	1.17	0.43	BDL	BDL	BDL	BDL	BDL	0.48
10/28/2024	4.9	8.9	124.4	29.2	3.7	1.41	0.25	BDL	BDL	BDL	BDL	BDL	6.30
10/29/2024	5.2	9.0	118.9	44.5	3.8	1.44	0.46	BDL	BDL	BDL	BDL	0.24	BDI
10/30/2024	5.3	9.4	129.3	56.1	3.8	1.80	0.79	BDL	BDL	BDL	BDL	0.26	BDI
10/31/2024	6.0	10.1	167.2	53.2	4.1	2.03	0.34	0.42	8.0	BDL	BDL	0.04	BDI
11/1/2024	6.3	10.4	122.7	42.6	4.1	2.11	0.39	0.075	14.0	BDL	BDL	1.79	1.23
11/2/2024	5.8	9.5	73.0	30.9	3.8	1.96	0.87	0.01	8.0	BDL	BDL	0.53	2.32
11/3/2024	5.5	8.8	97.4	18.9	3.1	1.92	0.51	0.07	7.0	BDL	BDL	0.62	9.22
11/4/2024	4.3	7.6	95.7	53.5	3.1	1.63	0.60	0.052	BDL	BDL	BDL	0.04	47.2
11/5/2024	4.0	8.2	127.2	45.7	3.2	1.69	0.45	0.073	BDL	BDL	BDL	1.62	BDI
11/6/2024	4.1	8.4	125.8	44.1	3.3	1.53	0.74	0.057	6.0	BDL	BDL	0.88	28.10
11/7/2024	3.7	7.8	128.5	35.0	3.2	1.49	0.43	0.059	BDL	BDL	BDL	0.78	3.41

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						Trilol	pur, Kala Amb	(530)		1121		- L 5	
	1 19		Regulatory F	Parameters							Prop	osed New Paran	ieters
									Metals in PM10		Meta	ls/Elements in P	M 2.5
Date	m3)	/m3)	y/m3)	g/m3)	/m3	g/m3	у/т.3	9 V L				In ug/m3	
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3	NH3 ug/m3	CO mg/m3	Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	Al	Fe	Ва
10/24/2024	4.6	9.1	24.2	8.2	2.7	1.10	0.95	0.013	BDL	BDL	BDL	BDL	2.87
10/25/2024	4.7	8.9	31.3	18.0	3.2	1.07	0.72	BDL	BDL	BDL	BDL	0.69	16.81
10/26/2024	4.5	8.8	45.1	26.4	3.1	1.10	0.64	0.097	BDL	BDL	BDL	BDL	10.52
10/27/2024	4.9	8.8	40.6	19.8	3.1	1.10	0.69	BDL	BDL	BDL	BDL	BDL	BDL
10/28/2024	5.1	9.1	56.5	25.5	3.6	1.23	0.59	BDL	BDL	BDL	BDL	BDL	0.10
10/29/2024	5.0	8.9	55.5	33.3	3.9	1.53	0.62	BDL	BDL	BDL	BDL	BDL	BDL
10/30/2024	5.7	10.0	67.1	33.5	4.0	1.77	0.68	0.015	BDL	BDL	BDL	0.85	0.72
10/31/2024	6.5	10.6	84.2	41.9	4.1	2.07	0.72	0.60	12.0	BDL	1.0	1.01	55.23
11/1/2024	5.3	9.5	52.8	35.0	4.2	2.20	0.70	0.42	10.0	BDL	BDL	0.74	2.06
11/2/2024	5.1	9.1	52.4	25.7	4.1	2.13	0.65	0.18	6.0	BDL	BDL	0.42	0.03
11/3/2024	4.6	8.2	54.4	26.8	3.4	1.90	0.54	0.102	5.0	BDL	BDL	BDL	24.30
11/4/2024	4.0	7.2	51.6	26.9	3.6	1.97	0.46	0.04	BDL	BDL	BDL	0.39	BDI
11/5/2024	4.2	8.5	67.7	25.5	3.8	1.90	0.58	0.1	BDL	BDL	BDL	BDL	58.25
11/6/2024	3.9	7.9	62.9	33.0	3.7	1.80	0.37	0.13	BDL	BDL	BDL	0.81	10.83
11/7/2024	3.9	8.1	92.8	41.0	3.6	1.97	0.52	0.09	7.0	BDL	BDL	BDL	1.32

ANNEXURE-III

	ANNEXURE-III  Regional Office, Una (667)													
Date			Regu	ulatory Parame	ters	Metals in PM10			Prop	osed New Parai	meters			
						NH3 ug/m3	СО тд/т3	Pb (ug/m3)		As (ng/m3)	Metals/Elements in PM 2.5			
	/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	O3 ug/m3				Ni (ng/m3)		In ug/m3			
	SO2 (ug/m3)										AI	Fe	Ва	
10/24/2024	5.2	- 6.0	84.9	39.4	2.9	13.8	0.2	0.33	ND	ND	ND	0.33	7.78	
10/25/2024	3.8	8.6	94.8	39.0	2.4	6.8	0.5	0.14	ND	ND	ND	ND	3.3	
10/26/2024	8.1	4.1	109.9	41.2	0.1	10.6	0.1	0.24	ND	ND	ND	ND	8.84	
10/27/2024	10.9	5.6	143.9	40.6	0.6	7.1	0.3	ND	ND	ND	ND	ND	38.25	
10/28/2024	7.9	4.8	99.3	32.5	4.3	10.5	0.5	0.18	ND	ND	ND	ND	11.93	
10/29/2024	5.2	10.8	108.1	28.2	3.7	11.2	0.2	0.070	ND	ND	ND	ND	10.53	
10/30/2024	8.0	3.3	86.0	62.5	4.9	10.6	0.4	0.14	ND	ND	ND	ND	5.28	
10/31/2024	8.8	6.8	113.3	66.7	6.2	4.3	0.7	0.15	ND	ND	ND	ND	6.66	
11/1/2024	9.9	10.0	104.1	79.2	4.2	6.8	1.0	ND	ND	ND	ND	ND	3.41	
11/2/2024	6.2	3.2	131.2	68.8	3.5	6.7	1.1	0.09	ND	ND	ND	ND	1.89	
11/3/2024	11.2	19.4	84.7	43.8	2.4	2.7	0.3	ND	ND	ND	ND	ND	1.8	
11/4/2024	2.3	14.5	64.3	31.3	5.1	3.7	0.3	0.08	ND	ND	ND	ND	4.19	
11/5/2024	2.0	8.3	141.1	50.0	1.3	5.2	0.4	ND	ND	ND	ND	ND	0.55	
11/6/2024	3.1	9.7	136.2	43.8	2.3	5.5	0.3	0.05	. ND	ND	ND	ND	0.52	
11/7/2024	4.6	10.2	115.0	37.5	2.1	6.7	0.3	ND	ND	ND	ND	ND	0.34	

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Date	Housing Roard, Baddi (563) MC, Nalagarh (565)							Nehru Park, Manali (670)											
	Housing Board, Baddi (563)  Regulatory Parameters				Regulatory Parameters			Regulatory Parameters								Proposed New Parameters			
									n3)	m3)	(m3)	y/m3)	NH3 ug/m3	Metals in PM10			Metals/Elements in PM		
	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)	SO2 (ug/m3)	NOx (ug/m3)	PM10 (ug/m3)	PM 2.5 (ug/m3)		Pb (ug/m3)	Ni (ng/m3)	As (ng/m3)	Al	Fe	Ba
10/24/2024	2.6	14.9	99.7	41.7	1.9	11.8	85.3	37.5	1.5	4.1	28,0	12.9	1.66	ND	ND	ND	ND	ND	109.359
10/25/2024	2.2	14.3	90.7	41.7	1.7	11.9	88.0	37.4	1.3	4.1	26.4	8.8	1.68	ND	ND	ND	ND	0.052	10.324
10/26/2024	2.2	14.4	89.3	42.5	2.1	12.6	83.3	37.5	1.5	4.5	27.9	9.2	1.93	ND	ND	ND	ND	0.066	173.85
10/27/2024	2.7	14.4	97.8	45.6	2.2	12.8	90.3	41.7	1.5	4.9	30.6	9.5	2.04	ND	ND	ND	ND	ND	9.44
10/28/2024	2.9	14.6	102.7	50.0	1.4	12.8	89.3	41.7	1.6	5.3	44.4	14.9	2.22	ND	ND	ND	ND	ND	11.33
10/29/2024	2.7	13.3	96.0	42.4	1.6	14.0	87.0	37.5	2.4	5.2	46.5	14.0	2.27	ND	ND	ND	ND	ND	558.459
10/30/2024	3.0	14.0	100.7	45.8	2.4	12.8	94.0	41.4	2.9	6.6	49.3	14.8	2.58	ND	ND	ND	ND	0.162	14.643
10/31/2024	3.2	15.2	158.0	59.4	2.7	14.0	142.7	50.9	4.7	11.1	80.4	22.7	3.41	ND	ND	ND	ND	0.178	310.879
11/1/2024	2.7	13.5	110.0	51.0	2.4	12.4	102.0	46.6	3.6	8.8	59.9	14.1	3.10	ND	ND	ND	ND	0.197	154.79
11/2/2024	1.9	12.8	103.0	45.8	1.7	11.2	100.0	41.7	2.5	8.7	52.6	13.6	2.66	ND	ND	ND	ND	0.091	11.533
11/3/2024	1.9	12.5	95.3	41.7	1.4	11.9	89.3	37,5	2.0	6.9	40.1	9.9	2.42	ND	ND	ND	ND	ND	53.551
11/4/2024	2.3	13.6	91.0	45.7	1.8	11.8	86.0	38.2	1.6	5.1	32.6	8.6	2.02	ND	ND	ND	ND	ND	28.93
11/5/2024	2.1	13.0	94.0	45.8	1.5	12.3	86.0	37.5	1.4	4.7	27.7	12.6	1.86	ND	ND	ND	ND	ND	13.391
11/6/2024	2.1	13.2	92.3	50.9	1.4	12.0	80.3	37.5	1.8	5.4	30.1	14.0	2.01	ND	ND	ND	ND	ND	160.04
11/7/2024	2.6	14.2	118.3	54.2	1.5	11.8	85.7	41.7	1.8	4.9	39.3	14.2	1.93	ND	ND	ND	ND	ND	17.24