

* Job Card No : RDKL/2324/APP/J00280

Requisition No. : RDKL/APP/2324/SR00114

Parameter : NO₂ (Amb), PM_{2.5}, PM₁₀.

Date of Allocation : 21.02.24 • NO of Sample : 3+1+3

Due Date : 28.02.24 • Date of Analysis : 21-23.02.24

• Name of Supervisor : Md. A Rafique.

NO₂ (Amb)

S/No	Sample Code	Total Vol of Sample (ml)	Vol of Sample Analysed (ml)	Vol of Air (L)	Abs ⁿ at (540nm)	Concn (ug/m ³)	
01.	2324/RDKL/APP/GN2/L00280	30	10	224.5	0.034	24	
02.	"	L00469	30	10	224.5	0.034	24
03.	"	L00470	30	10	228.5	0.026	18
04.	Blk	-	10	-	0.003	-	
05.	Std	-	10	-	0.025	1	

Calculation:

$$\text{NO}_2 (\text{ug/m}^3) = \frac{\text{Abs}^n - \text{Int}}{\text{Slope}} \times \frac{\text{Vol of Sample (ml)}}{\text{Vol of Sample Analysed (ml)}} \times \frac{1000}{\text{Vol of Air (L)} \times 0.82}$$

Slope : 0.0215 Int : 0.0021

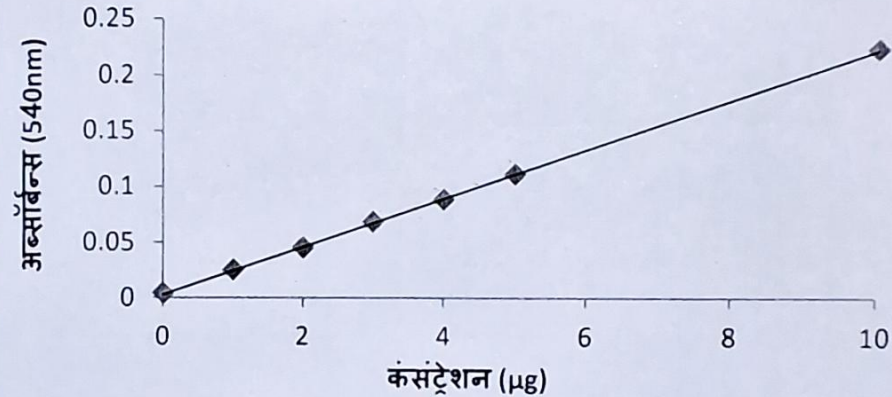
* Std Calibration graph of NO₂ is on page No. 31

21.02.24.

26.02.24

कंसंट्रेशन (μg)	अब्साॉर्बन्स
0.00	0.003
1.00	0.024
2.00	0.045
3.00	0.065
4.00	0.086
5.00	0.111
10.00	0.217
स्लोप	0.0215
इंटरसेप्ट	0.0021
कोरिलेसान	0.9998

NO₂ की कैलिब्रेशन कर्व दिनांक 12/02/24



श्री बोधिसत्व मंडल द्वारा तैयार किया गया

*SR00114

PM_{2.5} 81%

S/No.	Sample Code	Vol of Air (m ³)	Final Wt of Filterpaper (g)	Init' Wt of f/Paper (g)	Con ⁿ (ug/m ³)
01.	2324/RDKL/APP/PM/L00432	22.9625	0.14526	0.14349	77.08 ≈ 77
"	L004				

23/02/24

Calculation:

$$PM_{2.5} (\mu g/m^3) = \frac{\text{Final Wt of f/Paper (g)} - \text{Init' Wt of f/Paper (g)}}{\text{Vol of Air (m}^3\text{)}} \times 10^6$$

PM₁₀

S/No	Sample Code	Vol of Air (m ³)	Final Wt of f/Paper (g)	Init' Wt of f/Paper (g)	Con ⁿ (ug/m ³)
01.	2324/RDKL/APP/PM/L00429	511.86	2.78476	2.72429	118.13 ≈ 118
02.	2324/RDKL/APP/PM/L00430	431.04	4.69114	4.65502	83.79 ≈ 84
03.	2324/RDKL/APP/PM/L00431	457.00	4.68858	4.65048	83.36 ≈ 83

* Calculation:

$$PM_{10} (\mu g/m^3) = \frac{\text{Final Wt of f/Paper (g)} - \text{Init' Wt of f/Paper (g)}}{\text{Vol of Air (m}^3\text{)}} \times 10^6$$

23/02/2024

23.02.24