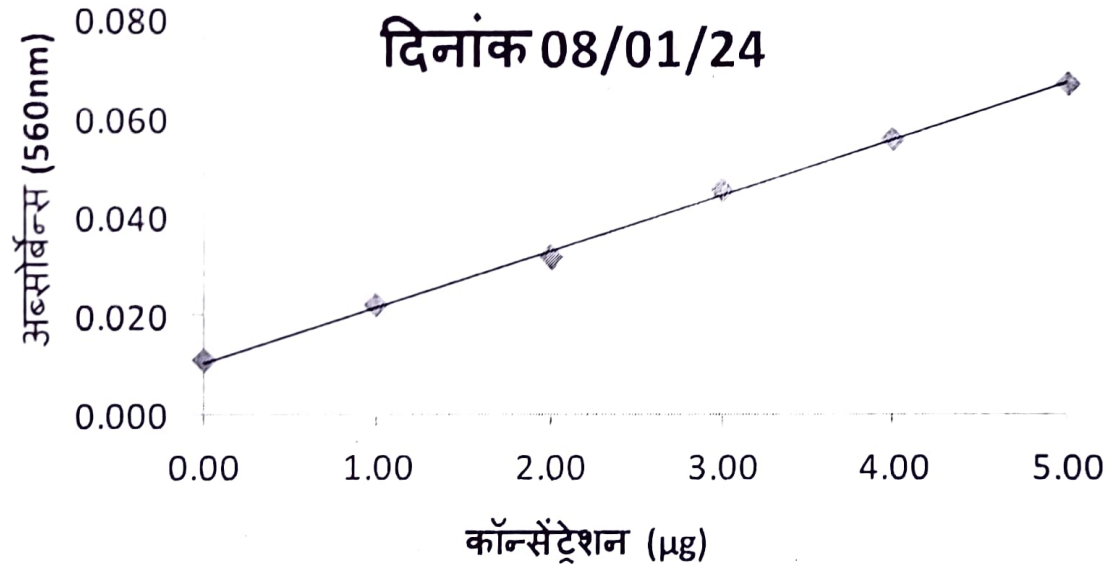


कॉन्सेंट्रेशन ( $\mu\text{g}$ )	अव्सोर्बेन्स (560 nm)
0.00	0.011
1.00	0.022
2.00	0.032
3.00	0.045
4.00	0.056
5.00	0.067
स्लोप	0.0113
इंटरसेप्ट	0.0106
कोरिलेशन	0.9996

## SO<sub>2</sub> की स्टैंडर्ड कैलिब्रेशन कर्व

दिनांक 08/01/24



श्री इंद्रनील नाथ द्वारा तैयार किया गया

Job Card No. - RDKL/2324/APP/J00240, J00242

Requisition No. - RDKL/APP/2324/SR00094, SR00095

Parameters -  $\text{SO}_2$  (Amb)

Total No. of Samples - 03 + 03

Date of Allocation - 11.01.24, 12.01.24

Date of Sample Analysis - 11.01.24, 15.01.24

Due Date of Result Submission - 18.01.24, 19.01.24

Name of the Supervisor - Md. A. Rafique

Test Method - IS 5182 (Part 2): 2001

Sr. No.	Requisition No.	Sample Code	Total Volm of Sample (ml)	Volm of Sample Analysed (ml)	Volm of Air (L)	Abs. at 560 nm	Concn ( $\mu\text{g}/\text{m}^3$ )
01.	—	Blank (11.01.24)	—	10ml absorbing	—	0.011	—
02.	SR00094	GS2/L00400	30	10	235	0.020	11
03.	"	GS2/L00401	30	10	234	0.014	4
04.	"	GS2/L00402	30	10	263	0.013	BDL
05.	—	Std. $\text{SO}_2$ (3 $\mu\text{g}$ ) (11.01.24)	—	—	—	0.022	—
06.	—	Blank (15.01.24)	—	10ml absorbing	—	0.011	—
07.	SR00095	GS2/L00403	30	10	220	0.016	7
08.	"	GS2/L00404	30	10	224	0.013	BDL
09.	"	GS2/L00405	30	10	269	0.012	BDL
10.	—	Std. $\text{SO}_2$ (1 $\mu\text{g}$ ) (15.01.24)	—	—	—	0.022	—

$$\text{Calculation: } \text{SO}_2 (\mu\text{g}/\text{m}^3) = \frac{\text{Abs} - \text{Int}}{\text{Slope}} \times \frac{\text{Total Volm of Sample (ml)} \times 1000}{(\text{Volm of Sample Analysed (ml)}) \times (\text{Volm of Air (L)})}$$

$$\text{Slope} = 0.0113$$

$$\text{Intercept} = 0.0106$$

Standard Calibration Curve: Refer to Pg. No. - 23

Indranil Nath  
15.01.24

15.01.24