Sample requisition No. = RDKL/2324/ ~~WM~~ /FW/ SR 00051
Job Card No = RDKL/2324/ FW/ JOO 311
Parameter - NH_3-N
No. of Sample = 02
Date of collection = 25/01/2024
Date of allotment = 25/01/2024
Name of supervisor = Md. A. Rafique

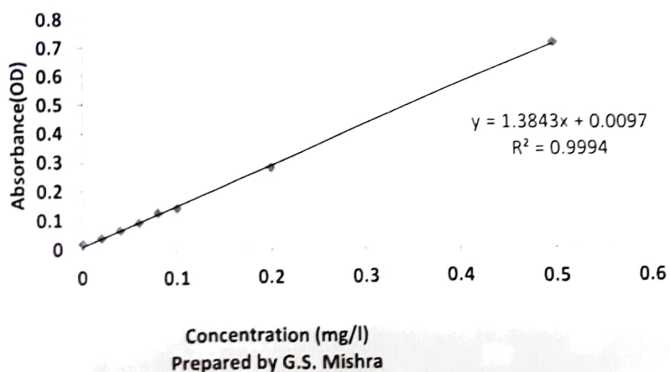calculation = concentration (x) = $\dfrac{y-c}{M}$ = $\dfrac{Absorbance - Intercept}{Slope}$

∴ from standard curve
M = 1.3843, C = 0.0097, R^2 = 0.999

S.No	Sample ID	Absorbance	Vol. of sample (ml)	NH_3-N conc (mg/L)
01	2324/RDKL/FW/L00079	0.167	25	0.11
02	"	0.426	25	0.3

Conc (mg/l)	Abs (640 nm)
0	0.019
0.02	0.037
0.04	0.065
0.06	0.091
0.08	0.124
0.1	0.141
0.2	0.279
0.5	0.706
Slope	1.3843
Intercept	0.0097
Correlation	0.999

$y = 1.3843x + 0.0097$
$R^2 = 0.9994$

Concentration (mg/l)
Prepared by G.S. Mishra

09.02.24