Geo Engineering (P) Ltd.

Hetauda-8, Kamane

Laboratory Test Equipments

S.N	Equipment code	Name Of Test Equipment	Quantity	Remarks
1	AIM-9106	Laboratory Electric Oven, With Digital Indicator Cum Controlled With Safety Alarm (50 Deg.-250 Deg.) (450x450x450). 	1No.	
2	AIM-9110	Laboratory Electric Oven, With Digital Indicator Cum Controlled With Safety Alarm (50 Deg.-250 Deg.) (600x900x600) 	1No.	

3	AIM-458-1	Los Angles Abrasion Testing Machine 	1No.	
4	AIM-120 CBR Test	California Bearing Ratio Test Apparatus Motorised(3 Speed) 	1No.	

5	AIM-054-1 Grain Size Distribution	Sieve Shaker, Motorized, With Built-In Digital Timer 	1No.	
6	AIM-456 Aggregate Crushing Value	Aggregate Impact Tester With Blow Counter 	1No.	

7	AIM-455	Crushing Value Apparatus 	1No.	
8	AIM-317-DG-1	Compression Testing Machine 2000KN capacity 	1No.	

9	AIM-114-2 Modified Proctor Test	Universal Automatic Compactor Digital Type 	1No.	
10	AIM-132	Swell Test Apparatus 	1No.	

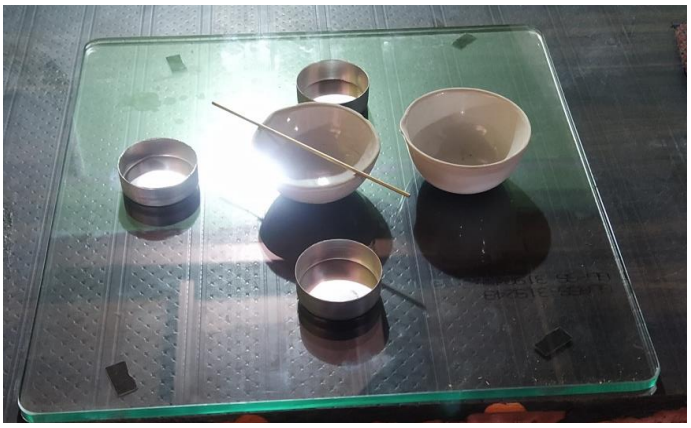
11	AIM-074-2 UCS test for Soil	Unconfined Compression Tester Capacity 2KN for soil 	1No.	
12	AIM-217-S2-DG UCS Test for Rock	Digital Unconfined Compression Test Capacity 200KN 	1No.	

13	AIM-129-1 Consolidation Test	Consolidation Apparatus ,Three Gang, Digital 	1No.	
14	AIM-207	Brazilian Test Apparatus 	1No.	

15	AIM-201-2	Core Drilling Machine (950*2100 RPM) 	1No.	
16	AIM-208	Slake Durability Apparatus 	1 No.	
17		Slake Durability Apparatus (Barkat Hi-Tech India)	1 No.	

18	AIM- 206- DG	Point Load Index Tester Digital 	1 No.	
19	AIM-031-SI	Hand Operated Extractor Sampling Outfit for 38mm and 50mm 	1 No.	
20	AIM- 9003-1	Electronic Balance 3200kg*0.01g CBL-3200, Pan Size 164*124mm 	1 No.	
21	AIM-9006-1	Electronic Balance Capacity, 10kg*0.5g SW-LR-10, Pan Size 230*190mm	1No.	
22	AIM- 9011-1	Electronic Balance Capacity, 30kg*5g, SW-LR30, Pan Size 230*190mm	1No.	
23	AIM-202-2	Core Cutting and Grinding Machine, Table Top Model 35mm to 150 Dia	1No.	

				
24	AIM- 105-1	Direct Shear Outfit, Electronic complete with star DAQ System 	1No.	

25	AIM-040	Liquid Limit Device With Counter and one Casagrande Grooving Tool Motorized	1No.	
26	AIM- 041 Atterberg Limit Test	Liquid Limit Device with Counter 	3No.	
27	AIM-046 Specific Gravity Test	Pycnometer (Each) 	5 Set	Specific Gravity Test
28	AIM- 9831-1	Plastic Limit Set 	2 No.	

29	AIM-106-2	Digital Large Direct Shear Apparatus, 50kn with Geo Star(Aim-10121) and Aimil Data Acquisition system(AIM-101). (300mm/300mm). 	1No.	
30	AIM- 215-S2	Triaxial Testing System With Hoek Cell and Loading Unit 1000kn (Modulus of elasticity and Poisson's ratio) 	1No.	

31	AIM-045	Shrinkage Limit Test 	1 No.	
32		Sieve (Brass) Various sizes 	39 No.	
33		Sieve (G.I) Various sizes	28 No.	

34		Oven (300x300) 	2 No.	Local Market made
35	AIM 9603,9604,9622, 9621	Thermometers 	4 Nos.	
36	AIM 9275-1	Hydrometer 	1 No.	
37	AIM 9867	Density bottle 50 mm 	5 No.	

38	AIM 9274	Hygrometer 	1 No.	
39	AIM-265	Proving ring (CBR)	1 No.	
40	AIM-264	Proving ring (UCS-soil)	1 No.	
41	AIM-274	Proving ring (Swell test)	1 No.	

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
PULCHOWK CAMPUS
DEPARTMENT OF CIVIL ENGINEERING
CENTRAL MATERIAL TESTING LABORATORY

Ref. No. : 078/079/1684

Date: 12/25/2078

M/S Geo Engineering Pvt. Ltd.

Sub: Calibration of CTM

Dear Sir,

Please find herewith **Calibration Report** of the Compression Testing Machine as per your request.

Please also find herewith a copy of receipt of **Rs. Fifteen Thousand** only charged against above mentioned tests of the samples.

Thanking you,

Sincerely Yours'

.....
(Er. Arun Paudel)
Assistant Professor/Lab Incharge

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DEPARTMENT OF CIVIL ENGINEERING
CENTRAL MATERIAL TESTING LABORATORY

Calibration Result

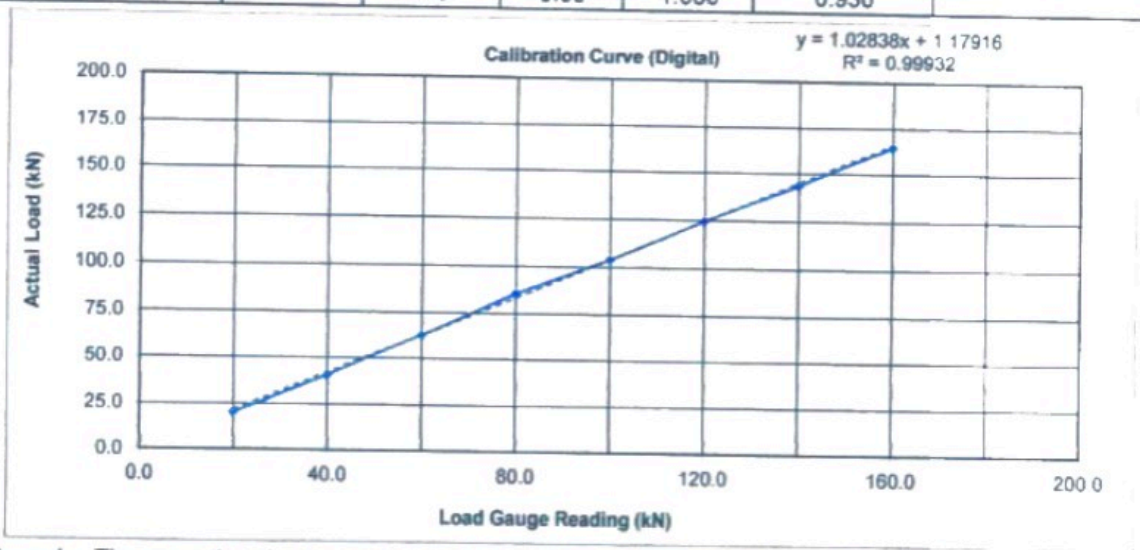
Tribhuvan University Institute of Engineering Department of Civil Engineering Central Materials Testing Laboratory

Calibrated for: Geo Engineering Pvt. Ltd.
Project: NA
Location: Kamane, Hetauda-6, Makwanpur
Instrument: Compression Testing Machine (Brazilian Test)
Manufacture: AIMIL
Operating Type: Manual
Capacity: 200 kN
Least Count: 1 kN
SL No.: 207968
Ram Dia.: 78.7 mm
Range of Calibration: (20-160) kN

Calibration Machine : ELE
Serial No : 1052-11-1415
Capacity : 2000 KN
Dial Gauge : 0.002mm/Div.
Method : Comparision

Date of Callibration : 2078/12/22
Valid up to : 2079/12/21
Temperature during Calibration: 26.2 oC
Time of Calibration: 22.30 PM

Display Reading (kN)	True Load (kN)	Correction	Max. Deviation %	Load Factor	Expanded Uncertainty (±kN)	Remarks
20.0	20.6	0.6	0.00	1.030	0.915	
40.0	41.2	1.2	3.85	1.030	1.356	
60.0	63.4	3.4	0.00	1.057	0.917	
80.0	86.1	6.1	1.23	1.076	1.135	
100.0	104.6	4.6	0.00	1.046	0.921	
120.0	124.9	4.9	0.42	1.041	0.982	
140.0	144.2	4.2	0.00	1.030	0.926	
160.0	164.8	4.8	0.00	1.030	0.930	



Remarks: The correction should be algebrically added to indicated load to get actual load.
An interpolation within the calibration range is permitted.
Note: This calibration certificate will not be valid, if
1) The machine or display is repaired.
2) Calibration Site / Laboratory Room is changed.

(Str. Er. Arun Paudel)
Assistant Professor/Lab Incharge

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
PULCHOWK CAMPUS
DEPARTMENT OF CIVIL ENGINEERING
CENTRAL MATERIAL TESTING LABORATORY

Tribhuvan University Institute of Engineering Department of Civil Engineering Central Materials testing Laboratory

Calibration Result

Calibrated for: Geo Engineering Pvt. Ltd.
Project: NA
Location: Kamane, Hetauda-8, Makwanpur
Instrument: Compression Testing Machine
Manufacture: AIMIL
Operating Type: Automatic
Capacity: 500 kN
Least Count: 1 kN
SL No.: 200304
Ram Dia.: 165 mm
Range of Calibration: (50-400) kN

Calibration Machine ELE
Serial No 1052-11-1415
Capacity 2000 KN
Dial Gauge 0.002mm/Div
Method Comparision

Date of Callibration : 2078/12/22
Valid up to : 2079/12/21
Temperature during Calibration 26.2 oC
Time of Calibration: 22:55 PM

Display Reading (kN)	True Load (kN)	Correction	Max. Deviation %	Load Factor	Expanded Uncertainty (±kN)	Remarks
50.0	54.9	4.9	1.92	1.099	1.133	
100.0	108.8	8.8	0.97	1.088	1.137	
150.0	158.5	8.5	0.00	1.057	0.929	
200.0	206.0	6.0	0.00	1.030	0.938	
250.0	256.7	6.7	0.00	1.027	0.950	
300.0	309.0	9.0	0.00	1.030	0.966	
350.0	366.6	16.6	0.29	1.047	1.190	
400.0	420.0	20.0	0.00	1.050	1.007	

Remarks: The correction should be algebrically added to indicated load to get actual load.
An interpolation within the calibration range is permitted.
Note: This calibration certificate will not be valid, if
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(Str. Er. Arun Paudel)
Assistant Professor/Lab Incharge

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DEPARTMENT OF CIVIL ENGINEERING
CENTRAL MATERIALS TESTING LABORATORY

Tribhuvan University
Institute of Engineering
Department of Civil Engineering
Central Materials testing Laboratory

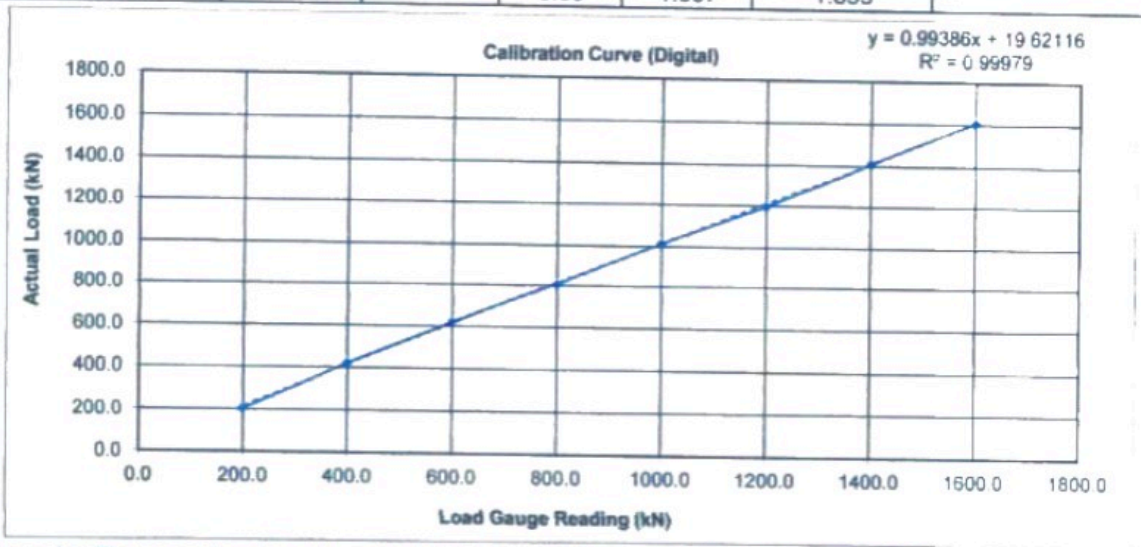
Calibration Result

Calibrated for: Geo Engineering Pvt. Ltd.
Project: NA
Location: Kamane, Hetauda-8, Makwanpur
Instrument: Compression Testing Machine
Manufacture: AIMIL
Operating Type: Automatic
Capacity: 2000 kN
Least Count: 1 kN
SL No.: 201950
Ram Dia.: 222.2 mm
Range of Calibration: (200-1600) kN

Calibration Machine : ELE
Serial No : 1052-11-1415
Capacity : 2000 KN
Dial Gauge : 0 002mm/Div
Method: Comparision

Date of Callibration : 2078/12/22
Valid up to : 2079/12/21
Temperature during Calibration: 26.3 oC
Time of Calibration: 22:40 PM

Display Reading (kN)	True Load (kN)	Correction	Max. Deviation %	Load Factor	Expanded Uncertainty (±kN)	Remarks
200.0	209.7	9.7	0.50	1.049	1.151	
400.0	424.2	24.2	0.25	1.060	1.209	
600.0	624.4	24.4	0.00	1.041	1.108	
800.0	811.4	11.4	0.00	1.014	1.223	
1000.0	1016.4	16.4	0.21	1.016	1.910	
1200.0	1201.3	1.3	0.00	1.001	1.510	
1400.0	1413.6	13.6	0.00	1.010	1.684	
1600.0	1611.7	11.7	0.00	1.007	1.853	



Remarks: The correction should be algebrically added to indicated load to get actual load.
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