Supplementary Information

Valorization of Geothermal Silica and Natural Bentonite through Geopolymerization: A Study of Characterization and Response Surface Design

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Figure S1 FTIR spectra of geothermal silica, bentonite and geopolymer specimens.

Figure S2 Linear fitting of data points obtained from experiments and predicted values of compressive strength.

Table S1 Results of ANOVA analysis

Source	Effect	Coefficient estimate	SE coef.	DF	Adj. Sum of square	Adj. Mean square	F-value	P-value
Model				6	9.5055	1.5842	1047.45	0.024
Linear				3	9.0503	3.0167	1994.56	0.016
X ₁	-0.4275	-0.2138	0.0138	1	0.3655	0.3655	241.66	0.041
X ₂	-0.2975	-0.1487	0.0138	1	0.1770	0.1770	117.03	0.059
X ₃	2.0625	1.0312	0.0138	1	8.5078	8.5078	5625.00	0.008
2-Way Interaction				3	0.4552	0.1517	100.33	0.073
X ₁ *X ₂	0.0575	0.0288	0.0138	1	0.0066	0.0066	4.37	0.284
X ₁ *X ₃	0.2575	0.1287	0.0138	1	0.1326	0.1326	87.68	0.068
X ₂ *X ₃	0.3975	0.1987	0.0138	1	0.3160	0.3160	208.93	0.044
Error				1	0.0015	0.0015		
Total				7	9.5070			
R-square	99.89%	R-square (adj)		99.89%				