

LIST OF TABLES

<u>Serial Number</u>	<u>Table Number</u>	<u>Title</u>	<u>Page</u>
1	I.1	The major occurrences and workable deposits of fireclay	3
2	I.2	Data based on year-wise Rainfall of past Ten Years.	9
3	I.3	Data based on Year-wise Temperature of past Ten Years.	9
4	II.1	Fireclay - Annual Production of India.	22
5	II.2	Fireclay - Export Data	23
6	II.3	Fireclay - Import Data	23
7	II.4	Classification of fireclay according to their fusibility	32
8	II.5	Grouping of Insulating Fire Bricks	42
9	II.6	Consumption of Fireclay by Industries	50
10	II.7	Typical Analysis of Fireclays from Different Localities (India)	51
11	IV.1	Stratigraphy of Dhrangadhra Formation	63
12	V.1	Characteristics in Raw State	128
13	V.2	Green and Drying Properties	135
14	V.3	Fired Properties	140
15	V.4	Pyrometric Cone Equivalents	145
16	V.5	Attenberg Limits	147
17	V.6	Hydrometer Analysis	151
18	V.7	Mechanical Analysis	161
19	V.8	Attenberg Limit in relation to Particle Size	163

<u>Serial Number</u>	<u>Table Number</u>	<u>Title</u>	<u>Page</u>
20	V. 9	Ion Exchange Capacities	166
21	V.10	Chemical Analysis	168
22	V.11	Results of mineral make up of fireclays of Saurashtra	176
23	V.12	Calculation of Ionic Formula (Illustrated Example of fireclay from Mine 1B)	177
24	V.13	D.T.A. Results of Fireclays from Saurashtra	183
25	V.14	Results obtained from TGA	195
26	V.15	X-ray Diffraction Results - Songadh (1C)	210
27	V.16	X-ray Diffraction Results - Tarnetar (3C)	211
28	V.17	X-ray Diffraction Results - Sadala (4C)	212
29	V.18	X-ray Diffraction Results - Palasa (5B)	213
30	V.19	X-ray Diffraction Results - Vinaygadh (8A)	214
31	V.20	X-ray Diffraction Results - Ratidevali (7B)	215
32	V.21	X-ray Diffraction Results - Matel (11)	216
33	V.22	X-ray Diffraction Results - Makansar (14)	217
34	V.23	Vertical Mineralogical Variation- Tarnetar (3B)	219
35	V.24	Vertical Mineralogical Variation- Songadh (1A)	220
36	V.25	Vertical Mineralogical Variation- Ratidevali (7A)	221
37	V.26	Vertical Mineralogical Variation- Vinaygadh (8B)	222

<u>Serial Number</u>	<u>Table Number</u>	<u>Title</u>	<u>Page</u>
38	VI.1	Results of particle size determination by sieving and Statistical Parameters computed from Quartile Measures	238
39	VI.2	Molecular Ratio $Al_2O_3:SiO_2,H_2O$ constant (After Null, 1935)	253
40	VII.1	Production Data from Mineral Year Book and Mineral Statistics of India; (Surendranagar and Rajkot district).	273