LIST OF PLATES

Serial Number	Plate Number	<u>Title</u>	Page
1	IV.1	Pottery works (in the background) located near fireclay mines. Thangadh	73
2	IV.2	Coal Stringers separating sagger clay at the top from body clay	73
		at the bottom(Songadh (1A)	
3	IV.3	Fireclay (below sagger clay) rich in plant fossils. Songadh (1B)	75
4	IV.4	Alternate bands of sandstone, flintclay, coal and plastic clay. Songadh (10)	75
5	IV.5	Sagger clay showing flinty fractures. Songadh (10)	76
. 6	IV.6	Coaly matter (plant impressions) on upper layer of fireclay bed. Songadh (1B)	76
7	IV.7	Sharp contact between finegrained compact sandstone at the top and fireclay at the bottom. Khapar (2B)	79
8	8.VI	Semiflint to flint clay showing greatest thickness (9.6m). Tarnetar (3C)	83
9	IV.9	Water flooding in mining pit excavated upto the bottom of the fireclay. Tarnetar	84
10	IV.10	The boundary wall (0.5m) between the adjecent mining pits is not inconformation to mining laws. Tarnetar (3A)	.84
11	IV.11	Bituminous coal layer (1mm) in upper fireclays. Tarnetar (3B)	85
12	IV.12	Pyritic nodules below fireclay bed. Tarnetar (3B)	85
13	IV.13	One meter thick overburden above fireclay. Sadala (40)	88

.

	Serial Number	Plate Number	<u>Title</u>	Page
	14	IV.14	Mica flakes on the freshly cut surface of the upper most portion of fireclay bed. Sadala (40)	88
	1 5	IV.15	Well developed mining pit showing benches. Palasa (5A)	90
	1 6	IV.16	Mine pit showing 6m thick semi- flint clay and water flooding. Palasa (5B)	90
	17	IV.17	Fireclay showing plant fossil. Palasa (5B)	91
	1 8	IV.18	Pumping of water from the mine pit to keep it working. Ratidevali (7A)	95
	19	IV.19	Sharp boundary between fireclay and overlying fine grained compact sandstone. Ratidevali (7B)	95
•	20	IV.20	Joints in fireclay below compact fine; grained sandstone. Ratidevali (7B)	96
	21	IV.21	Flint fractures and color banding in fireclay. Ratidevali (7B)	96
	`22	IV.22	Semiflint clay below 0.5m over- burden. Vinaygadh (8A)	98
	23	IV.23	Water flooding in fireclay mining pit. Vinaygadh (8B)	98
	24	IV.24	Vertical face of mining pit showing nodular fireclay and evidences of leaching. Saltanpur (10A)	103
	25	IV.25	Fireclay mining pit showing increase in overburden towards the hillock. (Matel (11)	103
	26	IV.26	Extensive mining for nodular fireclay. (Paneli (12)	105
	27	IV.27	Wedge shaped purple clay between fine grained compact sandstone above and fireclay below. Makansar (14)	107
			,	

Serial Number	Plate Number	<u>Title</u>	<u>Page</u>
28	IV.28	Joints and color bands in horizontallybedded sandstone with silt stone band. Makansar.	11 2
29	IV.29	Slickensided surface of fireclay. Ratidevali (7B)	112
30	IV.30	Minor fault in fireclay. Ratidevali (7B)	114
31	IV.31	Normal fault in lower Dhran- gadhra Formation. Songadh (1D)	114
32	IV.32	Cross bedding in Lower Dhran- gadhra Formation. Songadh (1A)	117
33	IV.33	Graded bedding in sandstone overlying fireclay. Ratidevali (7A)	117
34	IV.34	Parallel lamination in fireclay. Sadala (40)	119
3 5	IV.35	Parallel lamination in sandstone overlying fireclay. Songadh (10)	1 1 9
36	IV.36	Lenticular laminations in sand- stone. Ratidevali	120
37	IV.37	Distorted lamination in fireclay. Ratidevali (7B)	123
38	IV.38	Iron concretions in fireclay (flint clay). Ratidevali (7B)	124
39	IV.39	Iron concretions in ferruginous sandstone of Upper Dhrangadhra Formation. Tarnetar.	124
. <u>-</u>			
40	V. 1	Thin partings of coal in Songadh (1B) fireclay	225
41	V. 2	Contamination of coaly matter in Tarnetar (3B) fire-clay	225
42	V. 3	Gibbsite nodule in Ratidevali (7A) fireclay	226
43	V. 4	Micaceous illite along the bedding planes in Sadala (4A) fireclay	226
44	V. 5	Poorly crystalline kaolinite in Khanpar (2A) fireclay	228

	erial umber	Plate Number	<u>Title</u>	<u>Page</u>
	45	V. 6	Poorly crystalline kaolinite crystals in Songadh (1D) fireclay.	228
	46	V. 7	Poorly crystalline Subhedral crystals of akolinite in Sadala (4C) fireclay	229
	47	₹. 8	Poorly crystalline kaolinite in Gadhada (6) fireclay	229
	48	V. 9	Corrosive border of kaolinite crystal due to addition of iron oxide, Jambudia (13) fireclay	230
	49	₹.10	Corrosive border of kaolinite crystal due to addition of iron oxide, Saltanpur (10A) fireclay	230
	50	V.11	Perfectly crystalline Kaolinite in Tarnetar (3A) fireclay	231
	51	V.12	Perfectly crystalline kaolinite in Ratidevali (7B) fireclay	231
	52	V.13	Poorly crystalline kaolinite crystals in Vinaygadh(8A) fireclay.	232
	53	V.14	Poorly crystalline (Subhedral) kaolinite in Songadh (1D) fireclay	232
	54	₹.15	Corrossive border of Kaolinite crystal due to addition of iron oxide in Paneli (12) fireclay	233
	55	V.16	Corrosive border of kaolinite in Saltanpur (10A) fireclay	233
•				

•

,