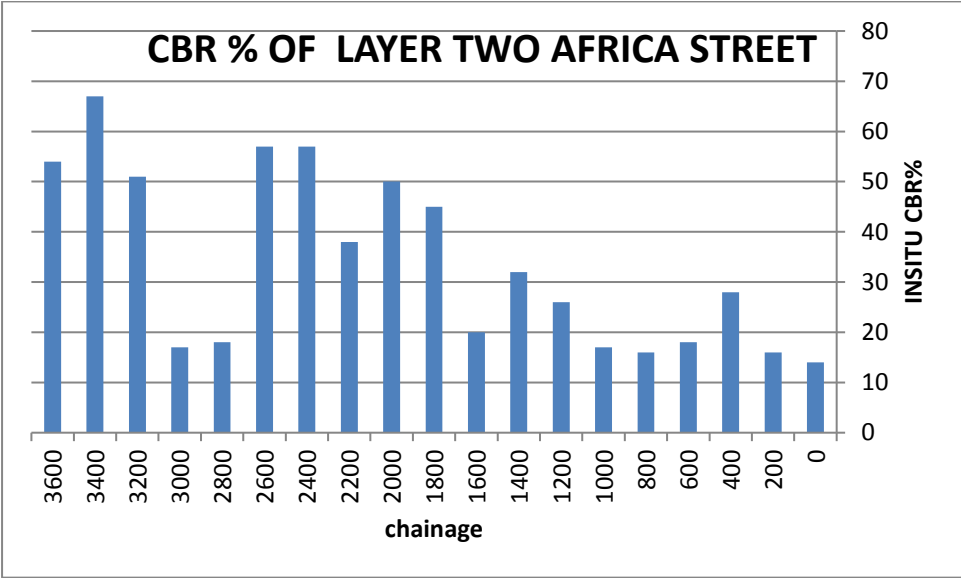
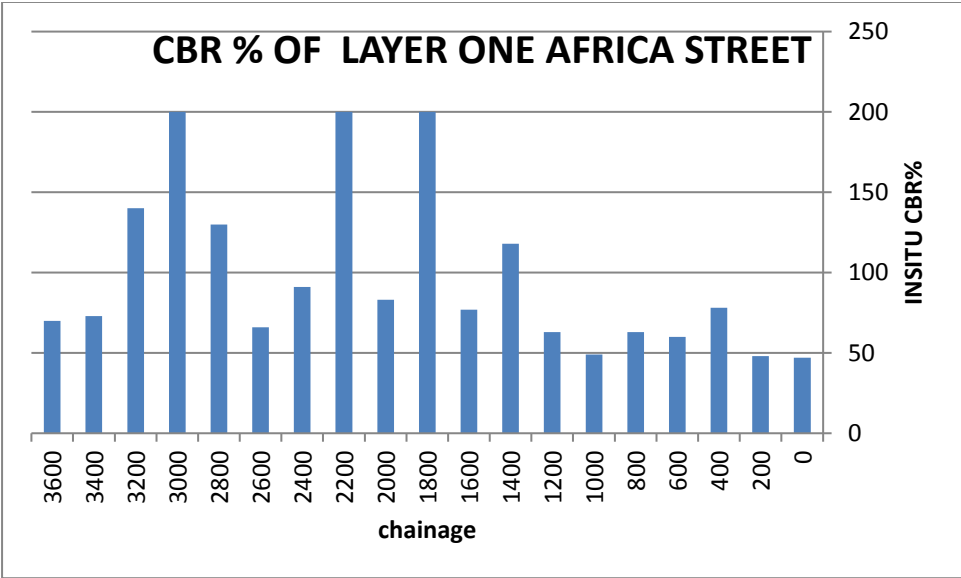
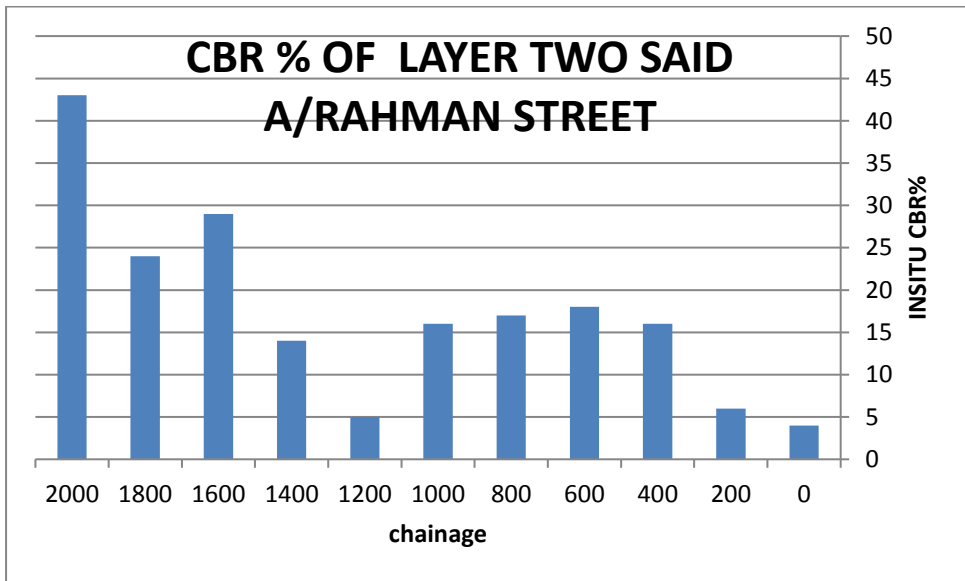
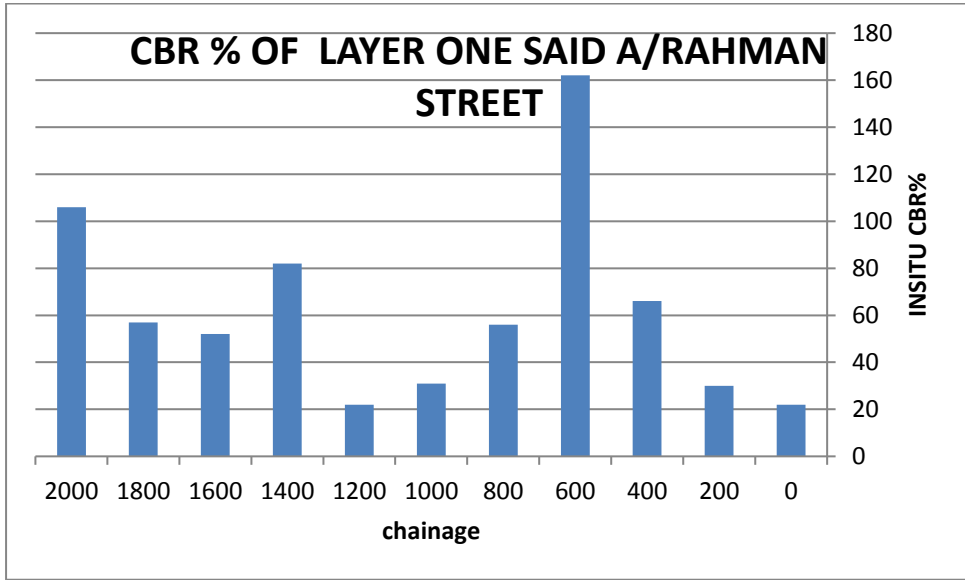
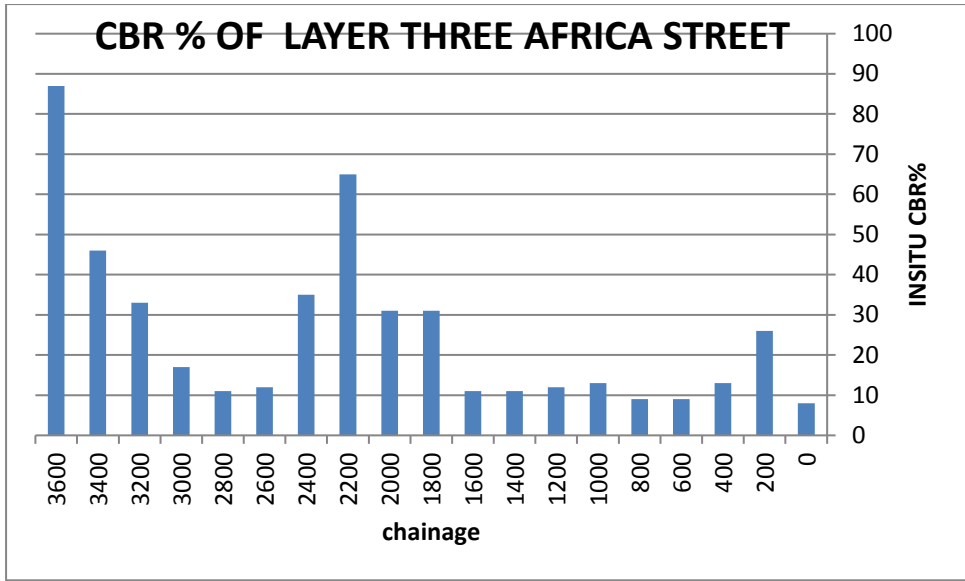
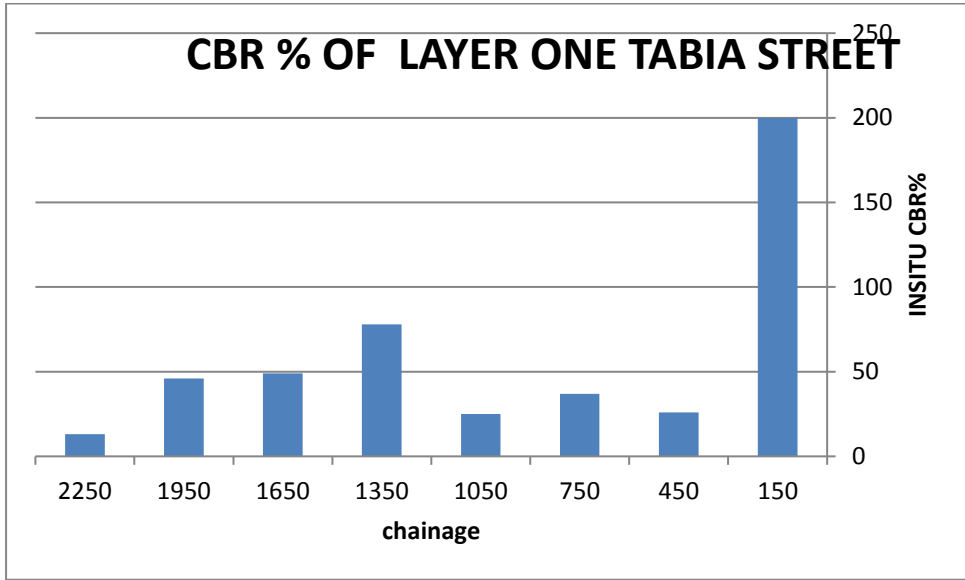
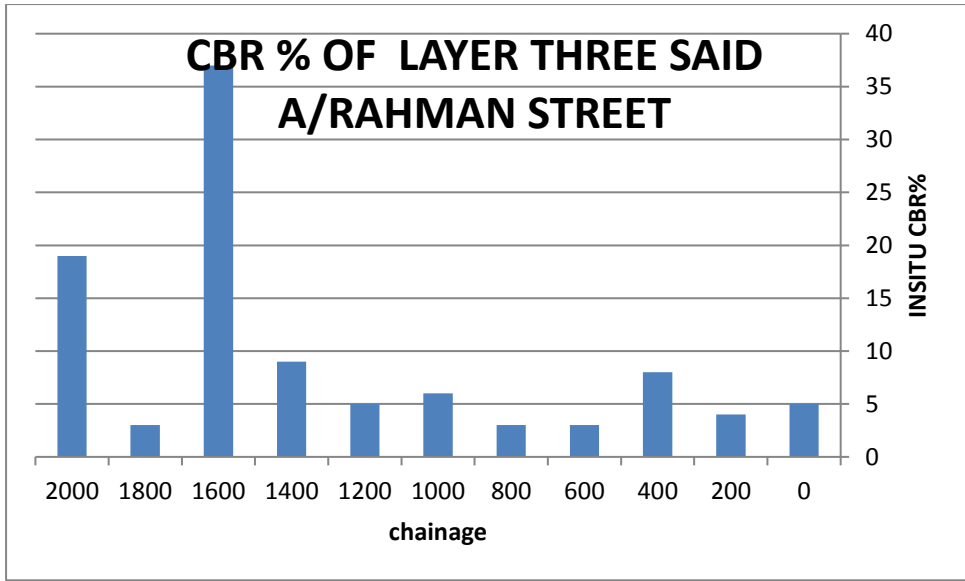
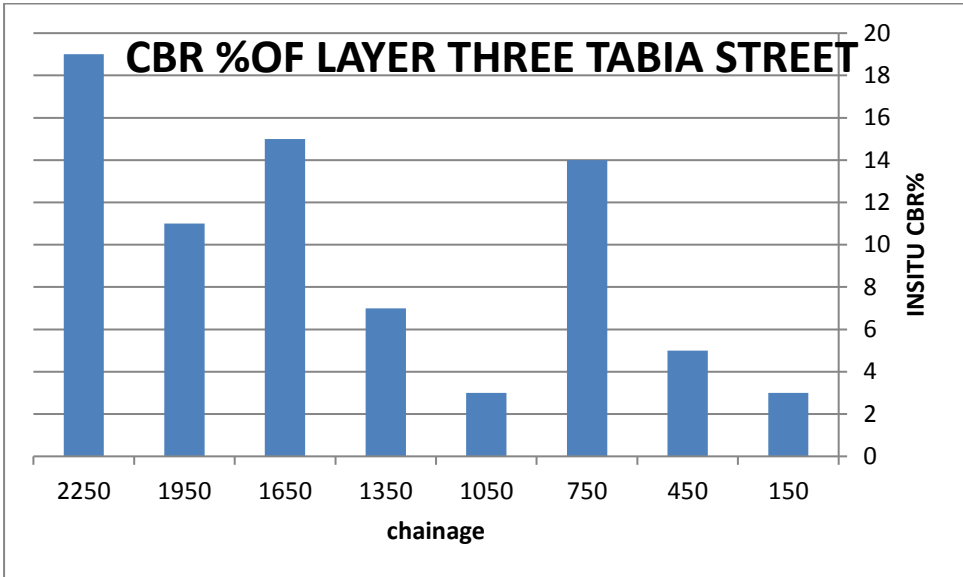
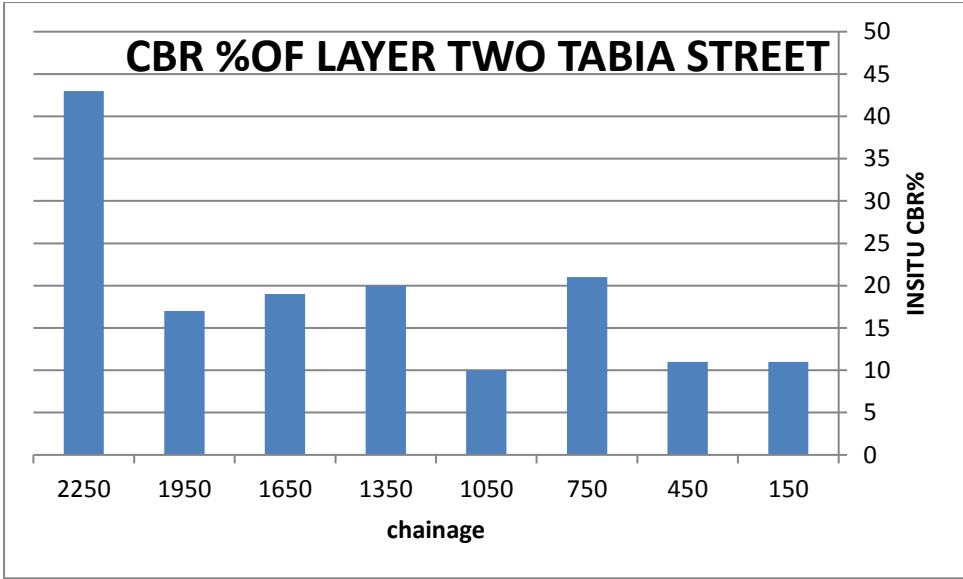


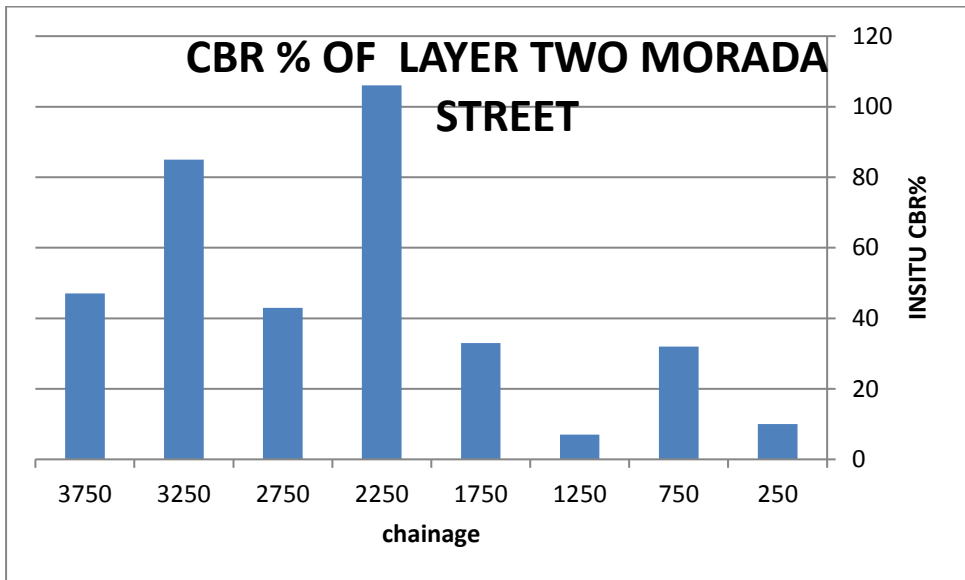
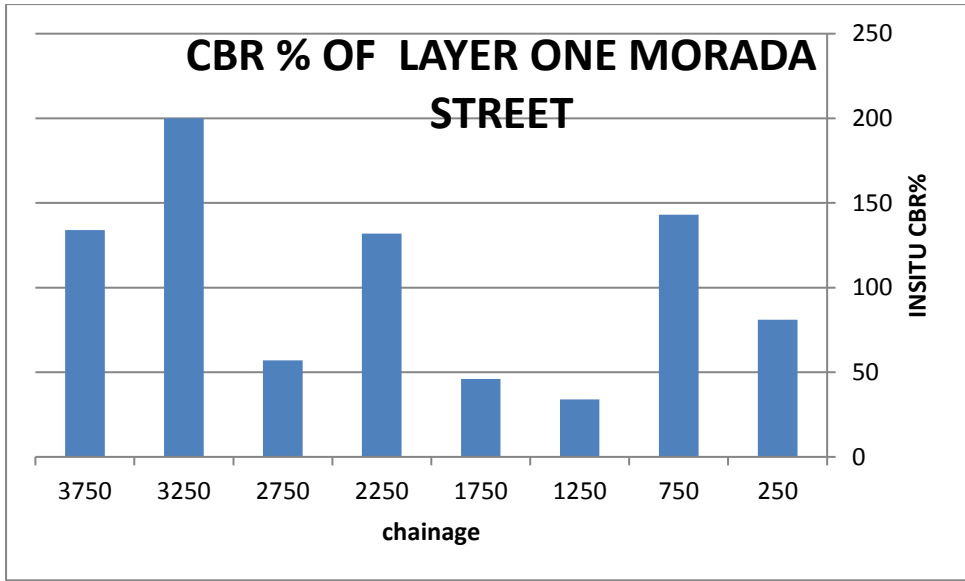
APPENDIX (B): DCP TEST RESULTS

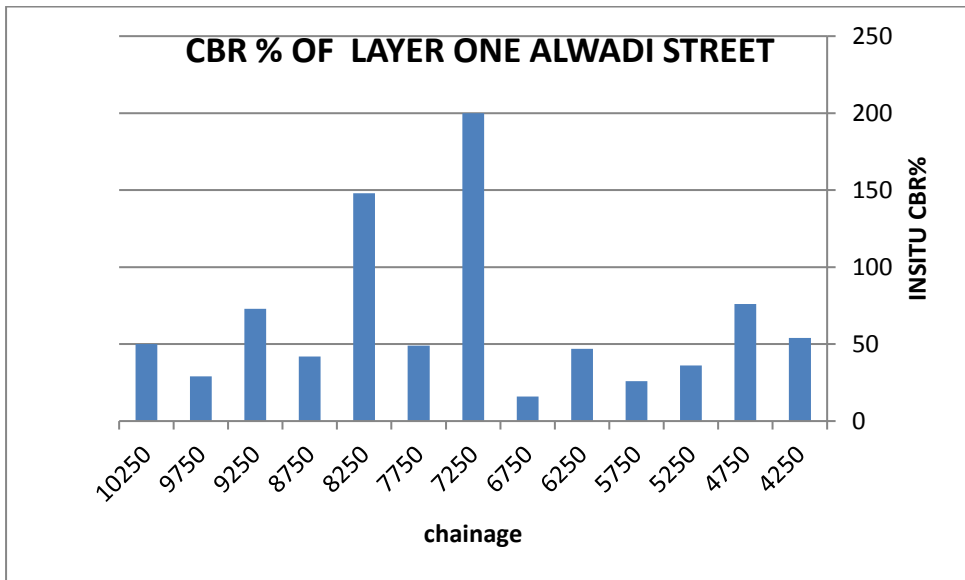
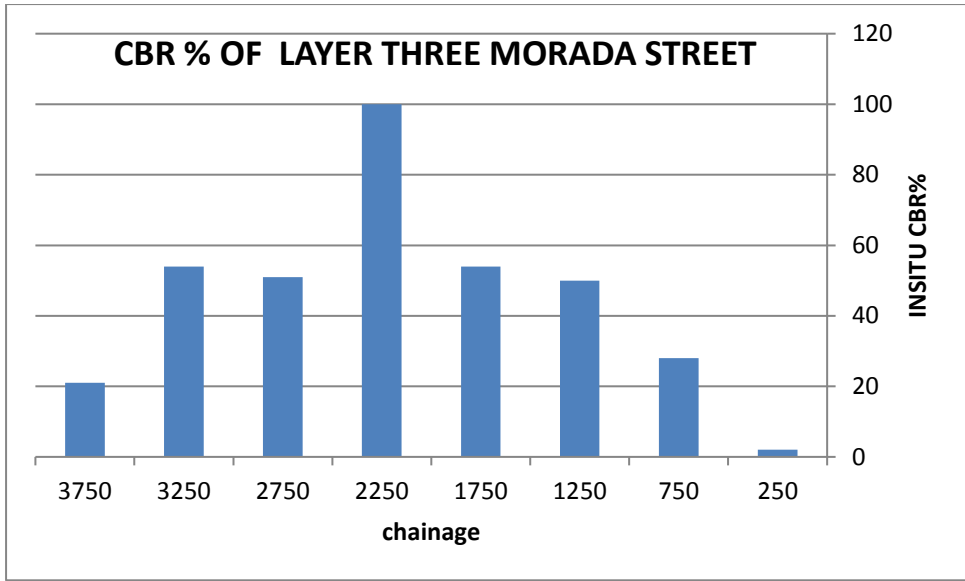


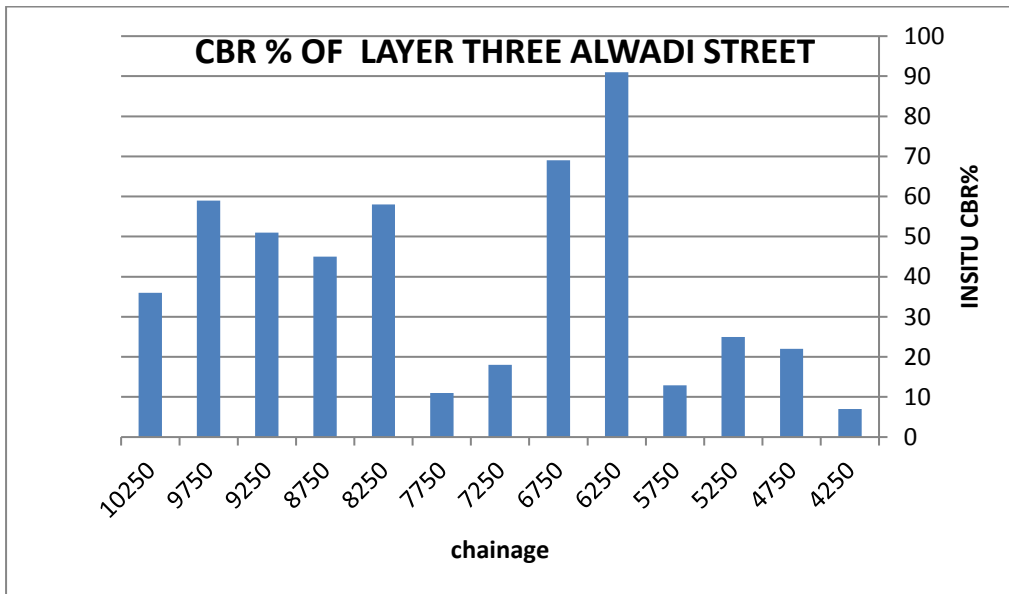
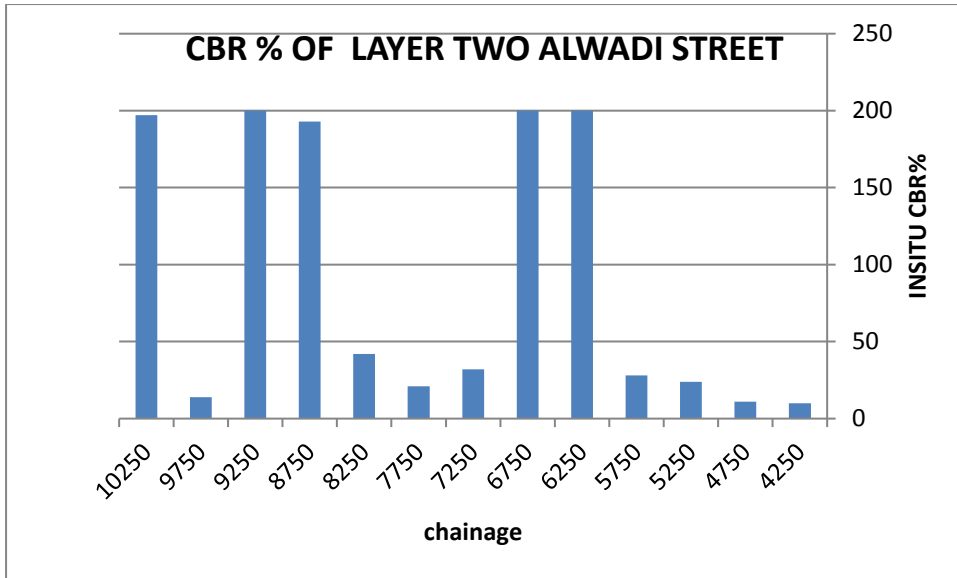


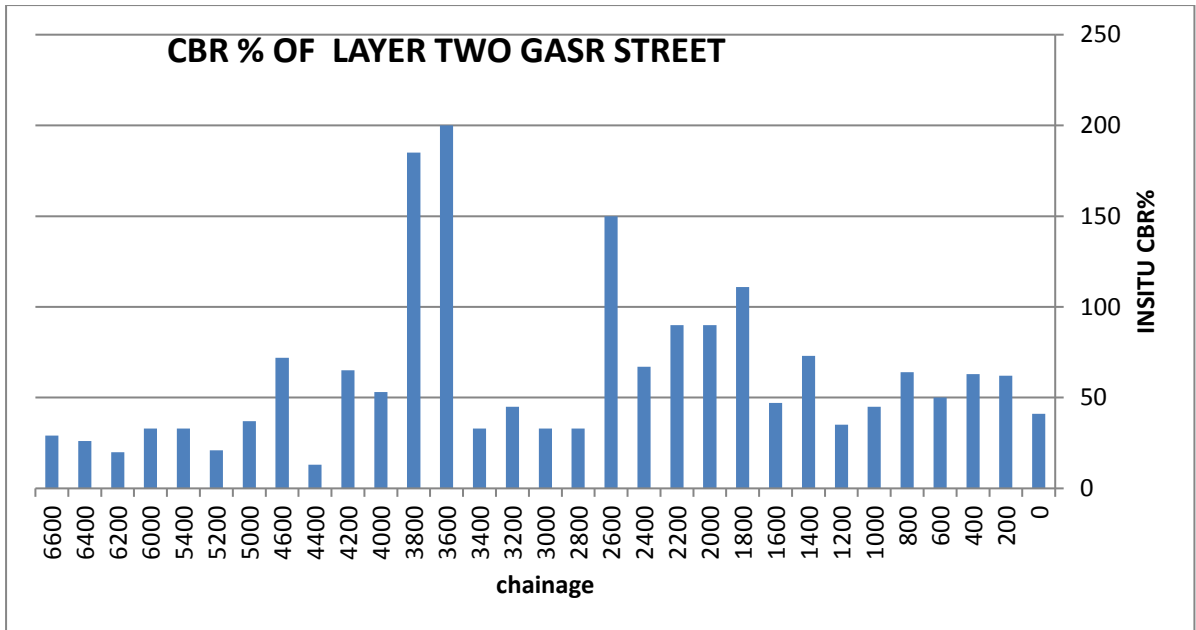
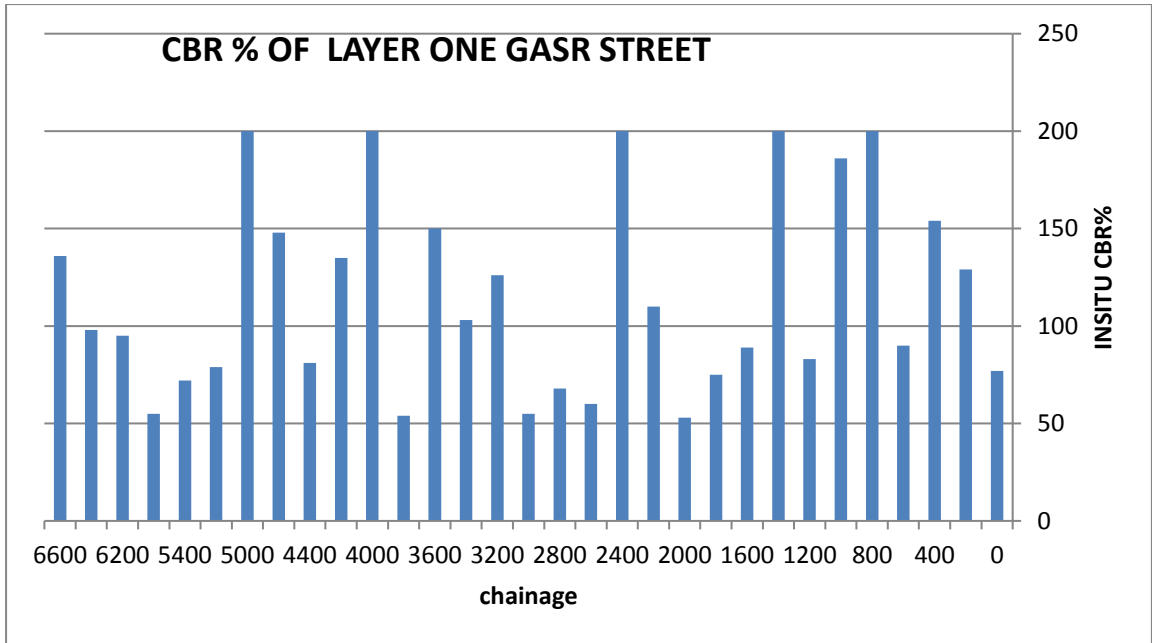














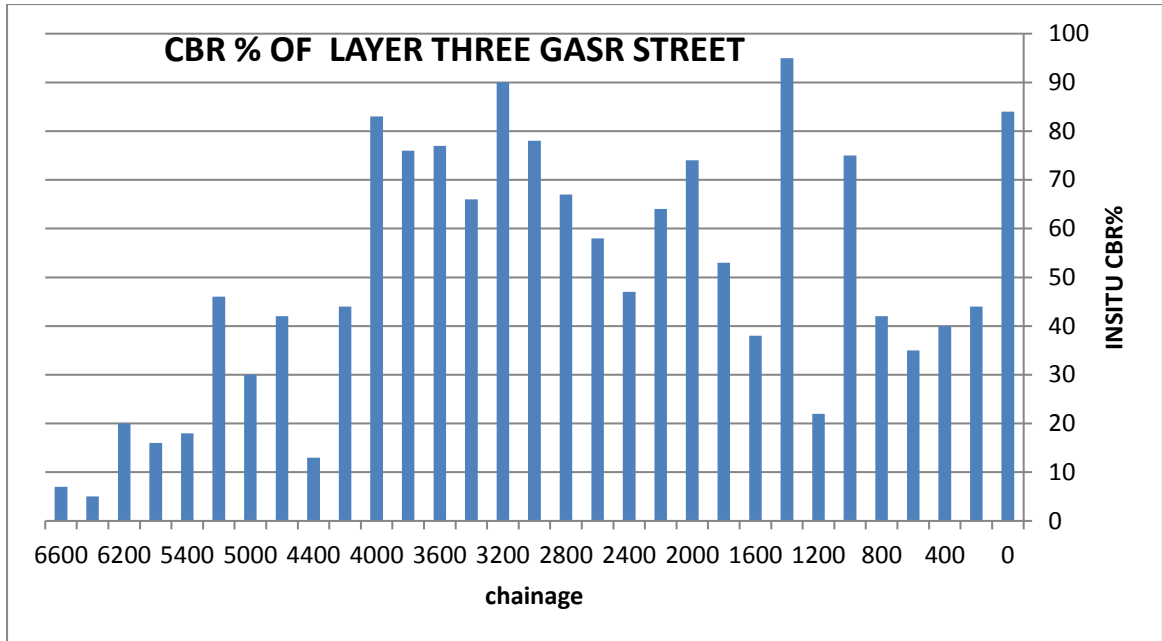


Table (4.1) DCP Africa Street

Chainage	Layer 1			Layer 11			Layer 111			
	thichnes s	DCP mm/ b	CBR %	Thichnes s	DCP mm/ b	CBR %	Thichnes s	DCP mm/ b	CBR %	
0+000	77	5.5	47	117	16.7	14		26.2	8	3.0 2
0+200	278	5.3	48	426	14.7	16	603	9.4	26	4.6 1
0+400	421	3.45	78	387	8.6	28	122	17.5	13	3.6 1
0+600	302	4.38	60	173	13.3	18	35	23.5	9	4.8
0+800	275	4.17	63	238	14.9	16	235	25.2	9	4.1
1+000	105	6.25	49	537	13.4	17	75	17	13	3.7
1+200	142	4.18	63	37	9.25	26	157	14.7	12	5.1
1+400	253	2.36	118	69	7.67	32	44	20.9	11	4.6
1+600	473	3.48	77	96	12	20	417	21	11	4.8 6
1+800	172	1.27	200	63	5.73	45	84	8.04	31	5.0
2+100	30	3.26	83	770	4.5	50	362			4.8 5
2+300	310	1.27	200	125	6.6	38	319	4.09	65	5.6 9
2+500	425	2.99	91	55	4.6	57	380	7.04	35	6.3 8



Table (4.3)DCP Tabia Street

Chainage	Layer 1			Layer 11			Layer 111			
	Thichnes s	DCP mm/ b	CBR %	thichnes s	DCP mm/ b	CBR %	thichnes s	DCP mm/ b	CBR %	
0+150	265	1.36	200	225	28.6	11	332	750	3	2.5
0+450	279	9.3	26	286	20.5	11	308	30.0	5	4.0
0+750	236	6.74	37	150	11.5	21	421	16.8	14	4.26
1+050	183	9.63	25	188	21.9	10	537	60.7	3	2.73
1+350	185	3.43	78	164	11.7	20	459	31.8	7	3.52
1+650	416	5.27	49	223	12.47	19	202	15.5	15	5.51
1+950	196	5.6	46	135	13.5	17	466	21.2	11	4.2
2+250	83	17.7	13	669	5.9	43	105	12.3	19	4.44

Table (4.4)DCP Street'Murrada

chain age	LayeLr 1			Layer 11			LaLayer 111			
	thickness	DCP mm/b	CBR%	thickness	DCP mm/b	CBR%	Thickness	DCP mm/b	CBR%	
0+250	70	3.3	81	247	33.6	10	573	11.0	2	1.4
0+750	185	1.9	143	115	7.7	32	572	8.8	28	4.79
1+250	591	7.39	34	292	32.4	7				3.76
1+750	265	5.52	46	637	7.49	33				4.8
2+250	452	2.14	132	170	2.62	106	466	1.5	100	5.11
2+750	101	4.6	57	612	5.88	43	159	5.09	51	4.53
3+250	140	1.33	200	719	3.2	85	24	4.8	54	5.07
3+750s	108	2.11	134	658	5.45	47	115	11.5	21	4.63

Table (4.5)DCP Al wadi street

chain age	LayeLr 1			Layer 11			Layer 111			
	thicknes s	DCP mm/ b	CBR %	thicknes s	DCP mm/ b	CBR %	Thicknes s	DCP mm/ b	CBR %	
4+250	116	4.83	54	495	21.5	10	58	29	7	4.1
4+750	407	3.53	76	99	19.8	11	270	10.4	22	3.0
5+250	175	7	36	525	9.91	24				2.3
5+750	60	9.5	26	66	3.91	28	51	25	12.9	3.2

6+250	82	4.97	47	297	0.44	200	30	3.0	91	5.55
7506+	43	14.3	16	273	0.6	200	564	3.86	6	5.4 2
7+250	327	0.9	200	194	7.76	32	120	13.3	18	5.6 2
7+750	337	5.27	49	335	11.6	21	185	20.5	11	4.3 2
8+250	274	1.93	148	483	6.04	42	77	4.5	58	5.6 8
8+750	274	6.0	42	189	1.51	193	568	5.68	45	5.4 7
9+250	102	3.68	73	264	1.47	200	437	5.02	51	5.9 3
9+750	92	6.55	29	203	16.9	14	326	4.47	59	4.7 3
10+250	360	5.2	50	341	1.49	197	521	6.95	36	5.6 8س

Table (4.6 DCP )Gasr South

Chainage	Layer 1			Layer 11			Layer 111			
	thichness	DCP mm/b	CBR%	Thichness	DCP mm/b	CBR%	thichness	DCP mm/b	CBR%	
0+000	210	3.5	77	499	5.87	41	135	3.21	84	6.0
0+200	198	2.18	129	64	4.27	62	610	6.81	44	6.1
0+400	310	4.20	154	42	4.2	63	521	6.28	40	5.12
0+600	353	3.02	90	231	5.13	50	279	7.16	35	5.66
0+800	317	0.97	200	98	3.92	64	456	6.08	42	5.91
1+000	268	1.57	186	426	5.68	45	71	3.55	75	5.72
1+200	278	3.27	83	355	7.1	35	220	11	22	6.19
1+400	286	1.23	200	437	3.64	73	143	2.87	95	5.29
1+600	149	3.04	89	381	5.44	47	343	6.57	38	5.94
1+800	161	3.58	75	363	2.5	111	320	4.93	53	4.83
2+000	217	4.93	53	407	3.01	90	242	3.61	74	7.05
200+2+	100	2.44	110	319	3.04	90	434	4.13	64	5.04
+4002	153	0.96	200	236	3.93	67	465	5.47	47	6.12
+6002	45	4.00	60	57	1.90	150	761	4.48	58	5.03
2+800	233	3.88	68	150	7.5	33	413	3.93	67	4.43
3+000	141	4.72	55	189	7.5	33	508	3.43	78	5.17
3+200	499	2.23	126	171	5.7	45	167	3.04	90	4.72
3+400	96	2.63	103	114	7.6	33	659	4.01	66	6.84
3+600	224	1.04	150	123	0.41	200	60	3.47	77	1+
3+800	97	4.79	54	173	1.58	185	578	3.52	76	5.99
4+000	184	0.89	200	441	0.89	53	220	7.59	83	5.71
4+200	345	2.09	135	182	4.04	65	322	7.5	44	6.28
04+40	251	3.35	81	475	4.9	13	118	18	13	4.36
+6004	179	1.93	148	516	3.69	72	164	6.07	42	5.30
5+000	208	1.19	200	584	6.7	37	61	3.6	30	5.21
+2005	188	3.42	79	147	11.3	21	541	5.56	46	4.91
5+400	296	3.7	72	75	7.5	33	492	13.3	18	6.5
+0006	489	4.7	55	123	7.5	33	254	14.3	16	3.96
6+200	124	2.88	95	195	11.6	20	552	11.6	20	4.9
6+400	263	2.8	98	132	9.43	26	455	38.8	5	4.7
6+600	177	2.08	136	294	8.4	29	329	30.37	7	4.11

Table (4.7)DCPSummary of Trail Pits Laboratory

Street and chain age		Atterberg limit			Classification	Compaction		soaked .CBR %
Gasr South	Depth of layers	L.L	P.L	P.I		MDD	OMC%	
0+800	-450650	30	10	20	CL	1.97	12	7
6+400	700-900	40	19	21	CL	1.95	12	12
Africa	-							
1+400	450-600	36	20	16	CL	2.02	11	10
2+700	450-600	35	24	11	CL	2.11	9	8
Al said A Rahman								
0+600	500-700	26	14	12	CH	2.01	10	2
+8001	500-700	52	12	40	CH	1.84	14	2
Tabia								
0+200	550-700	19	14	5	CH	1.95	11	3
1+350	450-600	35	17	18	MH	1.84	16	4
Murra da								
0+250	400-600	23	16	7	CL	2.12	9	5
Alwai								
8+000	450-600	34	26	8	CL	2.19	9	14

**Table (4.11) Skid resistance for centre road of Khartoum State (Non-Destructive test)**

ROAD NAME	SKID RESISTANCE (SN)			AVERAGE OF SKID RESISTANCE 1(SN)	AVERAGE OF SKID RESISTANCE 2(SN)
Nile avenue	85	85	86	85 85 87	85
	86	86	84		
	85	85	85		
Al Gamma street	82	84	86	84	83
	83	83	84	83	
	82	82	83	83	
El Gamhoria street	73	72	72	73	74
	76	75	74	75	
	75	74	76	75	
El Baladia street	85	87	86	86	83
	85	85	85	85	
	81	81	80	81	
El Said Abdel Rahman	83	83	85	83	82
	80	81	85	82	
El imam El mahdi south	71	73	73	71	73
	75	75	76	75	
	75	74	73	74	
El mak Nimir	89	89	89	89	86
	85	86	85	85	
	84	82	82	84	
El Gasr	82	77	76	78	74
	76	75	75	75	
	70	70	73	72	
Abdel Moniem mahammed	70	70	65	68	67
	67	66	65	66	
	66	66	67	67	
E l Horia	74	72	70	72	73
	76	74	72	74	
	76	75	73	74	
Ali Abdel Lateef	74	72	72	73	73
	74	72	71	72	
	74	72	73	73	