CONTENT

SN.NO	INDEX	Page No.
1	Chapter 1	7
1.1	Introduction	
1.1	General	7
1.2	Introduction about Company	7
1.3	Civil engineering measurements & conversion factors	8
1.4	Basic quantities and units	8
1.5	Types of Buildings	9
1.6	The sites visited	10
2	Chapter 2	11
2.1	Construction materials and Site visit	
2.2	Steps in construction of residential building	11
2.3	Site review	12
2.4	Site clearance	13
2.5	Demarcation of site	13
2.6	Grid line marking	14
3	Chapter 3	15
3.1	Excavation	
3.2	Soling	16
3.3	Laying of plain cement concrete	16
3.4	Bar bending and placement of foundation steel	18
3.5	Footing	19

3.6	Shallow Foundation	20
4	Chapter 4	23
4.1	Shuttering and Scaffolding	
4.2	Formwork for column	24
4.3	Formwork for slab	25
4.4	Scaffolding	25
5	Chapter 5	26
5.1	Concreting	
5.2	Steps in concreting	26
5.3	Compaction	29
5.4	Curing	29
6	Chapter 6	30
6.1	Brick work	
6.2	Door and window frames with lintels	35
6.3	Fixing of Door and Window frames	35
6.4	Plastering	36
6.5	Procedure for plastering work	37
6.6	Defects in plastering	37
7	Chapter 7	38
7.1	Flooring And Finishing	
7.2	Procedure of Tiles laying	39
7.3	Skirting	39
7.4	Nosing	40

7.5	Wall tiles	42
7.6	Skylight	42
7.7	Bar bending and binding reinforcement	44
7.8	Starter	46
7.9	Ceiling design	47
8	Chapter 8	48
8.1	Painting	
8.2	Final completion and handing over the project	50
8.3	Document lessons learned	51
9	Chapter 9	52
	Chapter	32
9	Site visit photos during my internship	52

LIST OF FIGURES

Fig No.	INDEX	Page No.
2.1	Site clearance	13
2.2	Site Marking	14
3.1	Excavation	15
3.2	Soling	16
3.3	P.C.C bed for footing	17
3.4(a)	Steel reinforced for footing	18
3.6(a)	Combined Footing	20
3.6(b)	Strap or cantilever footing	21
3.6(c)	Mat/Raft foundation	22
4.2	Formwork for column	24
4.3	Form work for slab	25
5.1	Concreting for RCC slab	26
5.2(a)	Mixing the concrete	27
5.2(b)	Transportation of concrete to slab	28
5.3	Compaction using vibrator	29
5.4	Curing	29
6.1(a)	Wall without plastering	31
6.1(b)	Wall construction	31
6.1(c)	Stretcher bond	32
6.1(d)	Header bond	32
6.1(e)	English bond	33
6.1(f)	Isometric view of English bond	33

6.1(g)	Flemish bond front appearance	34
6.2	Window	35
6.4	Plastering to wall	36
7.1	Mosaic Flooring	39
7.3(a)	Skirting	40
7.3(a)	Nosing	40
7.5(a)	Tiles	42
7.5(b)	Tiles for kitchen	42
7.6(a)	Skylight	43
7.7(a)	Slab Reinforcement	44
7.7(b)	Beam Reinforcement	45
7.7(c)	Plinth beam	45
7.8(a)	Mould Starter	46
7.9(a)	Ceiling	47
8.1(b)	Painting	49
8.3	3D Elevation	51

LIST OF TABLES

Table No.	INDEX	Page No.
3.6	Types of Foundation	17
4.1	Form work	24
8.1	Paints	49