

APPENDIX **08**

Appendix A

Rainwater Harvesting and tank size

Area of roof (m ²)	Annual rainfall (mm)	Potential rainfall harvesting capacity(L)	Actual rainfall Harvesting capacity (L) -10%(evaporation)
3000m ²	573mm	53000L	47700L

Table 1

Total number devices	Water consumption device	Water consumption (L)	Number of uses per day per device	Water Consumption per floor (L)
60	Flush Toilet	4.5	8	144
25	Urinal	1	16	32
x 23.5 days active per month average for building (Monthly consumption)				47800

Table 2

	V_{actual}	V_t	V_{t-1}	Rainfall (mm)	Runoff (l)	Roof Runoff (l)
Oct	40000	117800	0	71	165600	0
Nov	40000	222600	40000	98	230400	0
Dec	40000	251400	40000	110	259200	211400
Jan	40000	313800	40000	136	321600	273800
Feb	40000	167400	40000	75	175200	127400
March	40000	184200	40000	82	192000	144200
April	40000	109800	40000	51	117600	69800
May	18600	18600	40000	13	26400	0
June	-17200	-17200	18600	7	12000	0
July	-62600	-62600	-17200	3	2400	0
Aug	-100800	-100800	-62600	6	9600	0
Sep	-100600	-100600	-100800	22	48000	0

Table 3