	PROJECT - AI	MRAPA	LI LA RESI	DENTIA	AT GREAT	ER NOIDA (I	PHASE 1 + PI	HASE 2)	
		,	WATER RE	EQUIRE	MENT CALC	CULATIONS			
sl. no.	Description	No. of units	Unit Populatio n	Built up Area	Population	Unit Water Consumpti on	Total Water Required	Recycle Water Requirement	Total Recycle Water
				(Sq M)	(persons)	(liters)	(liters)	(liters)	(liters)
1	Apartments (Phase-1)	1484	4.5		6678	135	901530	45	300510
2	Apartments (Phase-2)	1772	4.5		7974	135	1076490	45	358830
3	Servant Units (Phase-1)	306	2.25		689	135	92948	45	30983
4	Servant Units (Phase-2)	184	2.25		414	135	55890	45	18630
5	Club & Floating Population				2200	15	33000	5	11000
6	Staff				100	45	4500	15	1500
7	Commercial / Shopping				400	45	18000	15	6000
8	Filter Backwash						50000		0
9	Make-up water for swimming pool						20000		0
10	Horticulture			20000		4	80000	100%	80000
						total	23,32,358		8,07,453
			SUMMAR	Y OF W	ATER REQU	JIREMENT			
Total Permanent Population						=	15755	persons	
Total Domestic Water Requirement						=	23,32,358	lit/day	
Total Recycle Water Requirement						=	8,07,453	lit/day	
Net Domestic Water Requirement						=	15,24,905	lit/day	
Total Sewage Load (total domestic water required - horticulture - s.pool makeup - fiter backwash						=	21,82,358	lit/day	
Net Sewage Flow - 80% of sewage load						=	17,45,886	lit/day	
Sewage Treatment Plant capacity required						=	1750	KLD	600 kld x 3
Total recycle water required						=	8,07,453	liters	
Net water balance (to discharge into drainage system)						=	9,38,434	liters	
UGT Capacity (for Domestic Use) = 16 hrs storage						=	10,16,603	provided	1000 KL
Fire Tank Capacity						=			400 KL
Total UGT Capacity (Domestic + Fire)						=			1400 KL