Annex A

MOS 461 - SEWAGE DISPOSAL ASSESSMENT

A. G.F.A.

Location	Exisitng G.F.A.	Proposed G.F.A.	Net Reduction / Addition of G.F.A.
Hotel	50,576.787	0	-50,576.787
Commercial	4,776.228	3,067	-1709.228
Residential	0	45,680	(45,680)
Exhibition/ Convention Hall	0	998	(998)

Sewage Discharge Estimation

Existing Hotel Development	
GFA of Hotel (sq. m)	50,576.787
GFA of Commercial (sq.m)	4,776.228
No. of Employee for Hotel / 100 sq. m of GFA [1]	1.40
No. of Employee for Commercial / 100 sq. m of GFA [1]	5.10
Total of Employees (Hotel + Commercial)	952
Unit Flow Factor (cu.m / day) [3]	1.58
Total Foul Water Flow (cu.m /day)	**1,504.16**

Proposed Residential Development	
No. of residential flat	772
Total no. of head	2162
Unit Flow Factor (cu. m/day) [2, 4]	0.27
Foul Water Flow (cu.m/day) for Residential	**583.74**
GFA of Commercial (sq.m)	3,067
No. of Employee for Commercial/100 sq.m of GFA [1]	5.10
Total of Employees	157
Unit Flow Factor (cu. m/day) [3]	1.58
Foul Water Flow (cu.m/day) for Employee	**248.06**
GFA of Exhibition/ Convention Hall (sq. m)	998
No. of Employee for Commercial/100 sq.m of GFA [1]	2.30
Total of Employees	23
Unit Flow Factor (cu. m/day) [3]	0.28
Foul Water Flow (cu.m/day) for Employee	**6.44**
Instantaneous peak flow from swimming pool	
Volume of Pool (Cu. M)	1171.60
Turnover Period (Hr) [1]	6
Filtration Rate (Cu. M / Hr)	195.27
Backwash Cycle (No. / Day)	1
Duration of Backwash Cycle (S)	180
Total Sewage Design Flow from Swimming Pool (Cu. M / Day)	9.80
Filtration Pump provided (No.)	2
Instant Peak Flow of Filtration System (Cu. M / Hr) [2]	**97.64**
Total Foul Water Flow (cu.m/day)	**935.88**

[1.] **Fig 16 of CIFSUS; PlanD**

[2 & 3] **Table T-1 & T-2; EPD/TP 1/05, DSD**

[4] **R2 zoning**