EX3//calculate the emission of Methane from solid waste in a region their population (9870000) , production of waste per day equal to 0.5 kg / person. Day , Fraction of MSW disposed to landfill 0.8, Methane correction factor=0.74 ,Fraction of Carbon releases as Methane=0.5 , DOC=0.21 , DOCf=0.77, Recovered Methane perYear=0.

	A	В	С	D	Е	
	Population whose Waste goes to SWDSs (Urban or Total) (persons)	MSW Generation Rate (kg/capita/day)	Annual Amount of MSW Generated (Gg MSW)	Fraction of MSW Disposed to SWDSs (Urban or Total)	Total Annual MSW Disposed to SWDSs (Gg MSW)	
			$C = (A \times B \times 365)/1 \ 000$		$E = (C \times D)$	
1997	9870000	0.5	1801.28	0.8	1441.02	

	STEP 1	STEP 2	STEP 3						STEP 4		
	A	В	С	D	Е	F	G	Н	J	K	L
	Total	Methane	Fraction	Fraction	Fraction	Conv	Potential	Realised	Gross	Recov	Net
			of	of	of	ersio	Methane			ered	Annual
						n					
		Correctio	DOG:	DOC	G 1	D .:	Generation	(6)		Metha	3.5.4
	Annual	n	DOC in	which	Carbon	Ratio	Rate	(Country-	Annual	ne	Methane
	MCW	E4	MCW	A -411	Released		per Unit of	:c:-)	Madhana	per	Generatio
	MSW	Factor	MSW	Actually	as		Waste (Gg	specific)	Methane	Year	n
							CH ₄ /Gg		Generati	(Gg	
	Disposed	(MCF)		Degrades	Methane		MSW)	Methane	on	CH ₄)	(Gg CH ₄)
	Disposed	(1.101)		Begrades	1,10,114110		1125 (1)	11101111111	(Gg	0114)	(08 0114)
	to SWDSs							Generation	CH ₄)		
								Rate per	,		
	(Gg MSW)							Unit			
								of Waste			
								(Gg CH ₄ /			
								Gg MSW)			
YEAR							G= (C x D x E x F)	H= (B x G)	J= (H x A)		L= (J - K)
1997	1441.02	0.74	0.21	0.77	0.5	16/12	0.11	0.08	114.95	0	114.95

STEP4					
M	N				
(1-					
Oxidation	Net				
Correction	Methane				
Factor for	generatio				
Methane)	n				
1-OX	LxM				
1	114.95				