Malé Declaration emissions inventory workshop Delhi, India, 2010

Exercise 5c: Filling in dummy data for – *Fugitive emission from fuels*
Optional/Homework

1. Continue working with the workbook **'Malé Inv workbook Version 3_test data.xls'** you saved at the end of Exercise 5b.

2. Go to **Menu 2** and then go to **Sheet: 1.8.1 Fugitive (non-combustion) emissions of NMVOC, PM$_{10}$ and PM$_{2.5}$ from production of coke.**

3. Enter **15000** as coke production rate in column A and then default EFs for NMVOC, PM$_{10}$ and PM$_{2.5}$.

4. Go to **Sheet: 1.8.2 Fugitive (non-combustion) emissions of NMVOC from oil exploration and crude oil production and transport.**

5. Enter **10** for number of oil wells drilled and **100** for other activity data in column A and then the default EFs.

6. Go To **Sheet: 1.8.3 Fugitive and process (non-combustion) emissions from oil refining.**

7. Enter **500 kt** for throughput of crude oil and then all the default EFs for NMVOCs.

8. Go to **Sheet: 1.8.4 Fugitive (non-combustion) emissions of NMVOC from distribution and handling of gasoline.**

9. Enter **500 kt** for gasoline handled per year for each activity and the default EFs for NMVOC.

10. Go to **Sheet: 1.8.5 Fugitive (non-combustion) emissions of NMVOC from production and distribution of natural gas.**

11. Enter **1000** TJ for both production and distribution of natural gas and the default EFs for NMVOC**.**

12. Go to **Sheet: 1.8.6 Fugitive emissions from flaring during oil and gas extraction.**

13. Enter **10000** for volume of gas flared and then all the default EFs**.**

14. Check totals for fugitive emission for fuels are carried forward to final **Summary Sheet 9**.

15. **Did you get the correct values?** See table below

16. **Save** your workbook.

From Summary sheet – Annual emissions of each pollutant by source sector in kt/yr.

Sector	Sub-sector	Total emissions (kilotonnes pollutant per year (kt/yr))						
		SO$_2$	NO$_x$	CO	NMVOC	NH$_3$	PM$_{10}$	PM$_{2.5}$
5. Fugitive emissions from fuels	Production of coke				0.01	0.01	0.05	0.02
	Oil exploration and crude oil production and transport				0.15			
	Oil refining	0.46	0.03	0.05	0.31			
	Distribution and handling of gasoline				1.97			
	Production and distribution of natural gas.				0.12			
	Flaring during oil and gas extraction		0.12	0.00	0.01			