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## TABLES

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|--|--|
| <b>Title of Inventory</b>                |  |
| <b>Contact Name</b>                      |  |
| <b>Title</b>                             |  |
| <b>Organisation</b>                      |  |
| <b>Address</b>                           |  |
|  |  |
|  |  |
| <b>Phone</b>                             |  |
| <b>Fax</b>                               |  |
| <b>E-Mail</b>                            |  |
| <b>Is uncertainty addressed?</b>         |  |
| <b>Related documents filed with IPCC</b> |  |

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**ALL USERS SHOULD REPORT THEIR INVENTORY INFORMATION IN THE FORMAT PRESCRIBED BY THE FOLLOWING TABLES. USERS ARE, OF COURSE, REQUIRED TO FILL IN ONLY THOSE SPACES ON THE TABLES THAT RELATE TO THE GASES AND SOURCE/SINK CATEGORIES THEY HAVE ESTIMATED AND INCLUDED IN THEIR INVENTORY.**

REPORTING INSTRUCTIONS

Countries are urged to report data at least at the level of aggregation of the Sectoral Tables. The tables are based on the common source/sink categories found in Chapter I - Understanding the Common Reporting Framework of Volume I of the *Revised 1996 IPCC Guidelines*. In the event that country inventory methods differ drastically from IPCC methods and cannot be converted immediately, it is requested that a hard copy of the more detailed report be included with the submission, explaining the subsectors that were used and where differences lie.

Please provide completed copies of all Worksheets used to calculate the inventory.

**TABLE I SECTORAL REPORT FOR ENERGY**  
(Sheet 1 of 3)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES |                 |                 |                  |                 |    |        |                 |
|---|-----------------|-----------------|------------------|-----------------|----|--------|-----------------|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES               | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NM VOC | SO <sub>2</sub> |
| <b>Total Energy</b>                                     |                 |                 |                  |                 |    |        |                 |
| <b>A Fuel Combustion Activities (Sectoral Approach)</b> |                 |                 |                  |                 |    |        |                 |
| <b>I Energy Industries</b>                              |                 |                 |                  |                 |    |        |                 |
| a Public Electricity and Heat Production                |                 |                 |                  |                 |    |        |                 |
| b Petroleum Refining                                    |                 |                 |                  |                 |    |        |                 |
| c Manufacture of Solid Fuels and Other Energy           |                 |                 |                  |                 |    |        |                 |
| <b>2 Manufacturing Industries and Construction</b>      |                 |                 |                  |                 |    |        |                 |
| a Iron and Steel  |                 |                 |                  |                 |    |        |                 |
| b Non-Ferrous Metals                                    |                 |                 |                  |                 |    |        |                 |
| c Chemicals   |                 |                 |                  |                 |    |        |                 |
| d Pulp, Paper and Print                                 |                 |                 |                  |                 |    |        |                 |
| e Food Processing, Beverages and Tobacco                |                 |                 |                  |                 |    |        |                 |
| f Other (please specify)                                |                 |                 |                  |                 |    |        |                 |

# TABLE I SECTORAL REPORT FOR ENERGY

(Sheet 2 of 3)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES |                 |                 |                  |                 |    |       |                 |
|---|-----------------|-----------------|------------------|-----------------|----|-------|-----------------|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES               | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NMVOC | SO <sub>2</sub> |
| (Gg)  |                 |                 |                  |                 |    |       |                 |
| <b>3 Transport</b>                                      |                 |                 |                  |                 |    |       |                 |
| a Civil Aviation  |                 |                 |                  |                 |    |       |                 |
| b Road Transportation                                   |                 |                 |                  |                 |    |       |                 |
| c Railways  |                 |                 |                  |                 |    |       |                 |
| d Navigation  |                 |                 |                  |                 |    |       |                 |
| e Other (please specify)                                |                 |                 |                  |                 |    |       |                 |
| <b>4 Other Sectors</b>                                  |                 |                 |                  |                 |    |       |                 |
| a Commercial/Institutional                              |                 |                 |                  |                 |    |       |                 |
| b Residential   |                 |                 |                  |                 |    |       |                 |
| c Agriculture/Forestry/Fishing                          |                 |                 |                  |                 |    |       |                 |
| <b>5 Other (please specify)</b>                         |                 |                 |                  |                 |    |       |                 |
| <b>B Fugitive Emissions from Fuels</b>                  |                 |                 |                  |                 |    |       |                 |
| <b>I Solid Fuels</b>                                    |                 |                 |                  |                 |    |       |                 |
| a Coal Mining   |                 |                 |                  |                 |    |       |                 |
| b Solid Fuel Transformation                             |                 |                 |                  |                 |    |       |                 |
| c Other (please specify)                                |                 |                 |                  |                 |    |       |                 |
| <b>2 Oil and Natural Gas</b>                            |                 |                 |                  |                 |    |       |                 |
| a Oil   |                 |                 |                  |                 |    |       |                 |
| b Natural Gas   |                 |                 |                  |                 |    |       |                 |
| c Venting and Flaring                                   |                 |                 |                  |                 |    |       |                 |

# TABLE I SECTORAL REPORT FOR ENERGY

(Sheet 3 of 3)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES |                 |                 |                  |                 |    |       |                 |
|---|-----------------|-----------------|------------------|-----------------|----|-------|-----------------|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES               | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NMVOC | SO <sub>2</sub> |
| <b>Memo Items 1:</b>                                    |                 |                 |                  |                 |    |       |                 |
| <b>International Bunkers</b>                            |                 |                 |                  |                 |    |       |                 |
| Aviation  |                 |                 |                  |                 |    |       |                 |
| Marine  |                 |                 |                  |                 |    |       |                 |
| <b>CO<sub>2</sub> Emissions from Biomass</b>            |                 |                 |                  |                 |    |       |                 |

1 Please do not include in energy totals.

**TABLE 2 SECTORAL REPORT FOR INDUSTRIAL PROCESSES**  
(Sheet 1 of 2)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES<br>(Gg) |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
|---|-----------------|-----------------|------------------|-----------------|----|-------|-----------------|------|---|------|---|-----------------|---|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES                       | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NMVOG | SO <sub>2</sub> | HFCs |   | PFCs |   | SF <sub>6</sub> |   |
|   |                 |                 |                  |                 |    |       |                 | P    | A | P    | A | P               | A |
| <b>Total Industrial Processes</b>                               |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>A Mineral Products</b>                                       |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 Cement Production   |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Lime Production   |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 3 Limestone and Dolomite Use                                    |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 4 Soda Ash Production and Use                                   |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 5 Asphalt Roofing   |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 6 Road Paving with Asphalt                                      |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 7 Other (please specify)  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>B Chemical Industry</b>                                      |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 Ammonia Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Nitric Acid Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 3 Adipic Acid Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 4 Carbide Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 5 Other (please specify)  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>C Metal Production</b>                                       |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 Iron and Steel Production                                     |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Ferroalloys Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 3 Aluminium Production  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 4 SF <sub>6</sub> Used in Aluminium and Magnesium Foundries     |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 5 Other (please specify)  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |

P = Potential emissions based on Tier 1 Approach. A = Actual emissions based on Tier 2 Approach.

## TABLE 2 SECTORAL REPORT FOR INDUSTRIAL PROCESSES

(Sheet 2 of 2)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES<br>(Gg) |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
|---|-----------------|-----------------|------------------|-----------------|----|-------|-----------------|------|---|------|---|-----------------|---|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES                       | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NMVOC | SO <sub>2</sub> | HFCs |   | PFCs |   | SF <sub>6</sub> |   |
|   |                 |                 |                  |                 |    |       |                 | P    | A | P    | A | P               | A |
| <b>D Other Production</b>                                       |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 Pulp and Paper  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Food and Drink  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>E Production of Halocarbons and Sulphur Hexafluoride</b>     |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 By-product Emissions  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Fugitive Emissions  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 3 Other (please specify)  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>F Consumption of Halocarbons and Sulphur Hexafluoride</b>    |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 1 Refrigeration and Air Conditioning Equipment                  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 2 Foam Blowing  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 3 Fire Extinguishers  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 4 Aerosols  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 5 Solvents  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| 6 Other (please specify)  |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |
| <b>G Other (please specify)</b>                                 |                 |                 |                  |                 |    |       |                 |      |   |      |   |                 |   |

P = Potential emissions based on Tier 1 Approach. A= Actual emissions based on Tier 2 Approach.

**TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE**  
 (Sheet 1 of 1)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES<br>(Gg) |                 |                  |       |  |
|---|-----------------|------------------|-------|--|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES                       | CO <sub>2</sub> | N <sub>2</sub> O | NMVOC |  |
| Total Solvent and Other Product Use                             |                 |                  |       |  |
| A Paint Application   |                 |                  |       |  |
| B Degreasing and Dry Cleaning                                   |                 |                  |       |  |
| C Chemical Products, Manufacture and Processing                 |                 |                  |       |  |
| D Other (please specify)  |                 |                  |       |  |

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO<sub>2</sub> columns.

Note: The Revised 1996 IPCC Guidelines do not provide methodologies for the calculation of emissions of N<sub>2</sub>O from solvent and other product use. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates.



# TABLE 4 SECTORAL REPORT FOR AGRICULTURE

(Sheet 1 of 2)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES<br>(Gg) |                 |                  |                 |    |                   |  |
|---|-----------------|------------------|-----------------|----|-------------------|--|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES                       | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NM <sub>VOC</sub> |  |
| <b>Total Agriculture</b>  |                 |                  |                 |    |                   |  |
| <b>A Enteric Fermentation</b>                                   |                 |                  |                 |    |                   |  |
| 1 Cattle  |                 |                  |                 |    |                   |  |
| 2 Buffalo   |                 |                  |                 |    |                   |  |
| 3 Sheep   |                 |                  |                 |    |                   |  |
| 4 Goats   |                 |                  |                 |    |                   |  |
| 5 Camels and Llamas   |                 |                  |                 |    |                   |  |
| 6 Horses  |                 |                  |                 |    |                   |  |
| 7 Mules and Asses   |                 |                  |                 |    |                   |  |
| 8 Swine   |                 |                  |                 |    |                   |  |
| 9 Poultry   |                 |                  |                 |    |                   |  |
| 10 Other (please specify)                                       |                 |                  |                 |    |                   |  |
| <b>B Manure Management</b>                                      |                 |                  |                 |    |                   |  |
| 1 Cattle  |                 |                  |                 |    |                   |  |
| 2 Buffalo   |                 |                  |                 |    |                   |  |
| 3 Sheep   |                 |                  |                 |    |                   |  |
| 4 Goats   |                 |                  |                 |    |                   |  |
| 5 Camels and Llamas   |                 |                  |                 |    |                   |  |
| 6 Horses  |                 |                  |                 |    |                   |  |
| 7 Mules and Asses   |                 |                  |                 |    |                   |  |
| 8 Swine   |                 |                  |                 |    |                   |  |
| 9 Poultry   |                 |                  |                 |    |                   |  |

**TABLE 4 SECTORAL REPORT FOR AGRICULTURE**  
(Sheet 2 of 2)

| SECTORAL REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES |                           |                 |                  |                 |    |       |
|---|---------------------------|-----------------|------------------|-----------------|----|-------|
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES               |                           | CH <sub>4</sub> | N <sub>2</sub> O | NO <sub>x</sub> | CO | NMVOC |
| <b>B Manure Management (cont...)</b>                    |                           |                 |                  |                 |    |       |
| 10  | Anaerobic                 |                 |                  |                 |    |       |
| 11  | Liquid Systems            |                 |                  |                 |    |       |
| 12  | Solid Storage and Dry Lot |                 |                  |                 |    |       |
| 13  | Other (please specify)    |                 |                  |                 |    |       |
| <b>C Rice Cultivation</b>                               |                           |                 |                  |                 |    |       |
| 1   | Irrigated                 |                 |                  |                 |    |       |
| 2   | Rainfed                   |                 |                  |                 |    |       |
| 3   | Deep Water                |                 |                  |                 |    |       |
| 4   | Other (please specify)    |                 |                  |                 |    |       |
| <b>D Agricultural Soils</b>                             |                           |                 |                  |                 |    |       |
| <b>E Prescribed Burning of Savannas</b>                 |                           |                 |                  |                 |    |       |
| <b>F Field Burning of Agricultural Residues</b>         |                           |                 |                  |                 |    |       |
| 1   | Cereals                   |                 |                  |                 |    |       |
| 2   | Pulse                     |                 |                  |                 |    |       |
| 3   | Tuber and Root            |                 |                  |                 |    |       |
| 4   | Sugar Cane                |                 |                  |                 |    |       |
| 5   | Other (please specify)    |                 |                  |                 |    |       |
| <b>G Other (please specify)</b>                         |                           |                 |                  |                 |    |       |

Note: The Revised IPCC 1996 Guidelines do not provide methodologies for the calculation of CH<sub>4</sub> emissions, and CH<sub>4</sub> and N<sub>2</sub>O removals from agricultural soils, or CO<sub>2</sub> emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates.