

Table 3.3 : District wise CO emission quantity (Do-Nothing, 2016)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Chandigarh	74.5	69.2	3,951.2	9,246.8	6,157.8	3,840.3	1,728.6	1,781.9	8,898.8	364.1	2,680.0	4,890.2	3,086.3	710.3	3,015.9	2,189.5	1,973.9	11,610.2	3,074.3	31,489.7	81,729.9
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	74.5	69.2	3,951.2	9,246.8	6,157.8	3,840.3	1,728.6	1,781.9	8,898.8	364.1	2,680.0	4,890.2	3,086.3	710.3	3,015.9	2,189.5	1,973.9	11,610.2	3,074.3	31,489.7	81,729.9
2	Haryana	12.5	3.7	19.4	39.9	41.3	29.7	8.7	11.4	48.9	4.2	18.2	21.8	17.8	8.0	17.3	18.6	7.4	98.3	18.0	99.8	499.7
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	49.9	64.7	49.1	92.4	62.8	50.0	58.0	96.3	38.7	48.1	36.8	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	1,521.9
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	62.3	68.3	61.5	124.8	104.8	79.7	61.7	79.7	64.7	59.8	66.2	61.6	62.7	74.9	107.4	72.0	62.2	117.7	60.4	110.2	1,521.9
3	West Bengal	48.1	18.1	80.1	165.7	220.2	139.3	28.9	47.8	241.9	18.8	63.3	62.7	88.5	23.0	63.0	63.0	34.6	359.6	63.1	363.7	2,278.4
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	31.0	43.4	29.8	63.9	62.8	39.4	39.8	64.8	27.5	38.0	32.9	24.3	47.8	16.8	63.8	37.2	34.4	36.2	26.1	39.6	778.9
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	69.0	81.8	109.8	200.5	263.4	168.7	69.3	69.3	266.3	46.7	101.3	95.7	132.7	70.8	136.4	77.0	407.8	108.1	408.4	408.4	2,278.4
4	Madhya Pradesh	19.0	17.2	20.2	69.9	164.8	70.0	24.9	31.8	138.1	11.8	39.2	58.1	68.2	14.9	131.7	127.3	20.2	444.4	201.8	782.3	2,439.6
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	8.1	8.9	7.8	20.0	7.9	19.3	17.4	32.6	8.9	13.7	22.3	22.3	22.3	16.4	28.3	16.2	14.1	16.8	10.4	13.0	231.5
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	25.0	26.2	37.0	100.6	172.7	89.3	41.9	44.3	140.1	20.6	67.7	74.9	63.8	29.8	165.2	279.3	40.3	467.8	217.3	314.7	2,714.2
5	U.P.	0.7	0.4	1.7	6.9	6.6	3.1	9.8	1.3	7.7	0.4	1.3	2.3	3.0	0.6	2.2	1.8	1.3	8.6	2.2	8.2	61.2
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	8.4	11.8	7.8	17.0	11.4	9.4	10.9	12.0	7.3	16.3	9.2	12.4	4.4	12.7	19.8	9.8	10.2	8.7	8.7	8.8	209.1
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	9.1	12.2	9.6	24.0	17.2	12.5	11.4	13.3	14.0	10.7	10.7	14.7	9.4	13.2	19.1	11.0	11.3	19.8	8.8	17.9	271.4
6	Natural Gas	10.1	8.6	89.2	287.2	347.0	117.5	22.0	18.8	311.0	7.0	35.8	71.2	147.1	8.9	67.1	48.2	80.8	464.1	118.0	418.9	2,824.2
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	79.8	108.0	71.7	154.8	302.8	86.5	85.6	108.9	301.6	10.7	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	1,824.2
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	66.9	109.2	134.9	419.7	360.5	203.8	118.7	127.6	424.4	17.4	130.4	188.8	209.7	139.0	288.0	246.2	103.4	568.4	178.7	619.7	4,979.0
7	Other State	79.7	299.1	344.1	4,318.3	2,320.6	1,087.5	307.7	788.9	2,938.8	283.8	691.8	1,111.0	1,072.7	183.0	847.2	697.7	739.5	4,109.1	1,097.9	4,399.2	27,417.8
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	79.7	299.1	344.1	4,318.3	2,320.6	1,087.5	307.7	788.9	2,938.8	283.8	691.8	1,111.0	1,072.7	183.0	847.2	697.7	739.5	4,109.1	1,097.9	4,399.2	27,417.8
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	79.7	299.1	344.1	4,318.3	2,320.6	1,087.5	307.7	788.9	2,938.8	283.8	691.8	1,111.0	1,072.7	183.0	847.2	697.7	739.5	4,109.1	1,097.9	4,399.2	27,417.8
8	Total	103.1	109.1	4,095.7	14,657.0	11,192.9	5,974.9	2,036.3	2,680.1	13,092.2	448.1	3,694.3	9,304.1	9,009.7	849.1	4,193.2	3,137.7	2,944.9	19,848.2	5,897.3	17,439.3	119,240.3
	Industrial Niche Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	103.1	109.1	4,095.7	14,657.0	11,192.9	5,974.9	2,036.3	2,680.1	13,092.2	448.1	3,694.3	9,304.1	9,009.7	849.1	4,193.2	3,137.7	2,944.9	19,848.2	5,897.3	17,439.3	119,240.3
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	103.1	109.1	4,095.7	14,657.0	11,192.9	5,974.9	2,036.3	2,680.1	13,092.2	448.1	3,694.3	9,304.1	9,009.7	849.1	4,193.2	3,137.7	2,944.9	19,848.2	5,897.3	17,439.3	119,240.3

Table 3.4 : District wise HC emission quantity (De-ModNg,2018)

Fuel	(ton/year)												Total							
	1	2	3	4	5	6	7	8	9	10	11	12								
1 Gasoline	29.3	23.4	49.7	374.8	312.4	191.9	98.5	94.6	272.3	21.7	89.0	160.0	141.9	27.2	110.0	64.3	64.4	119.9	492.9	3,194.4
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	29.3	23.4	49.7	374.8	312.4	191.9	98.5	94.6	272.3	21.7	89.0	160.0	141.9	27.2	110.0	64.3	64.4	119.9	492.9	3,194.4
2 Kerosene	7.4	2.2	11.0	21.9	24.8	17.9	3.4	8.8	27.0	2.6	10.8	12.9	19.6	3.9	10.4	11.4	4.4	41.0	60.7	279.1
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Institutional	33.7	47.4	31.6	67.4	46.8	36.7	41.1	47.8	29.1	40.8	36.3	43.8	39.9	60.2	36.2	30.0	34.2	30.0	34.4	622.7
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	41.1	49.6	42.6	66.7	70.8	64.1	44.1	64.1	64.1	43.4	46.2	64.8	39.3	64.2	36.4	30.0	34.2	30.0	34.4	1,071.8
3 Coal Oil	349.0	32.6	66.4	399.1	154.9	89.2	20.3	33.2	187.4	11.8	43.8	87.3	80.6	15.9	57.4	69.7	249.1	97.9	249.9	1,294.7
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	8.2	11.6	7.9	17.0	11.2	9.7	10.6	11.0	7.3	10.4	9.8	12.9	9.9	12.7	19.8	8.9	19.2	9.4	9.7	211.9
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	47.2	24.4	67.3	199.2	166.9	99.9	31.0	44.3	189.9	22.0	53.6	71.6	73.3	78.7	60.0	70.6	37.0	287.3	44.2	1,840.0
4 Heavy Oil	19.2	12.8	21.6	69.4	128.0	52.9	18.4	23.8	88.1	8.8	22.6	41.4	33.9	10.6	39.4	60.5	19.0	372.3	191.4	646.9
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	1.6	2.1	2.1	5.3	2.1	5.1	4.6	5.3	2.4	3.7	6.2	18.6	2.3	4.1	8.8	3.8	3.8	4.2	2.8	48.2
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	13.6	16.0	20.9	61.7	125.7	47.7	23.0	37.2	100.6	17.6	37.0	60.0	36.2	15.0	110.1	238.1	73.4	349.3	144.2	504.8
(Sub-total)	19.2	12.8	21.6	69.4	128.0	52.9	18.4	23.8	88.1	8.8	22.6	41.4	33.9	10.6	39.4	60.5	19.0	372.3	191.4	646.9
5 LPG	0.2	0.1	0.9	2.0	1.7	0.9	0.2	0.4	2.2	0.1	0.4	0.7	0.8	0.1	0.7	0.9	0.4	2.7	0.8	2.3
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	2.8	3.9	2.8	5.7	3.8	3.1	3.9	4.0	2.4	3.4	3.1	4.1	2.1	4.2	5.8	3.2	3.4	3.1	2.1	2.2
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	3.0	4.0	3.1	7.7	5.5	4.0	3.7	4.4	4.6	3.5	3.5	4.8	3.0	4.4	6.3	3.7	3.8	6.1	2.8	27.8
6 Natural Gas	1.4	1.2	0.0	20.8	38.3	18.9	3.2	2.4	49.2	1.0	9.1	10.2	21.0	1.2	13.9	6.9	8.2	64.9	10.9	49.8
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	28.5	36.9	29.8	66.1	36.6	32.4	35.8	49.8	26.0	36.2	31.8	44.5	22.0	43.4	57.3	33.8	34.7	31.7	22.8	33.1
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	20.8	48.7	35.9	85.2	74.0	43.2	30.1	43.2	70.7	26.3	30.8	64.9	43.0	49.3	78.0	168.8	45.4	98.4	38.4	512.3
(Sub-total)	23.6	49.7	35.9	85.2	74.0	43.2	30.1	43.2	70.7	26.3	30.8	64.9	43.0	49.3	78.0	168.8	45.4	98.4	38.4	512.3
7 Solid Fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 Total	66.5	62.4	127.6	632.0	682.3	328.5	113.2	128.2	711.2	49.8	162.4	309.0	273.2	96.1	267.2	291.9	720.9	1,130.8	361.4	1,372.3
Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Institutional	74.8	100.0	71.0	153.8	101.5	87.1	89.7	108.0	99.2	93.3	84.8	125.4	94.4	118.0	152.9	89.9	97.3	84.9	69.2	48.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	160.3	209.7	228.6	786.4	763.9	416.8	202.9	247.2	810.0	149.1	271.9	434.4	333.6	173.6	468.0	608.3	216.0	1,236.1	411.6	2,992.2

Table 3.6 : District wise TOTAL emission quantity (Do-Nothing-2010)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Goendol	785.6	992.7	1,698.9	10,421.2	6,994.9	4,213.9	1,622.5	1,000.4	10,327.4	603.5	2,795.2	5,199.9	3,643.9	799.9	3,250.1	2,342.0	1,790.8	1,231.3	3,234.9	12,248.9	84,922.7	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	785.6	992.7	1,698.9	10,421.2	6,994.9	4,213.9	1,622.5	1,000.4	10,327.4	603.5	2,795.2	5,199.9	3,643.9	799.9	3,250.1	2,342.0	1,790.8	1,231.3	3,234.9	12,248.9	84,922.7	
	(Sub-total)	785.6	992.7	1,698.9	10,421.2	6,994.9	4,213.9	1,622.5	1,000.4	10,327.4	603.5	2,795.2	5,199.9	3,643.9	799.9	3,250.1	2,342.0	1,790.8	1,231.3	3,234.9	12,248.9	84,922.7	
2	Khannay	372.8	62.8	119.8	525.3	953.9	998.6	129.8	244.7	1,016.9	96.8	419.9	497.2	499.9	193.6	391.4	439.2	167.2	1,542.8	399.9	1,910.1	10,912.9	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Residential	909.9	644.8	642.7	1,207.7	918.1	993.7	731.9	862.8	918.9	727.9	998.4	782.6	654.3	993.9	1,178.8	992.7	716.0	940.3	652.4	991.4	11,999.9	
	Energy Consumption	678.4	677.7	678.4	2,653.1	1,749.7	1,311.6	461.6	1,111.8	1,539.2	623.3	1,048.6	1,270.7	899.8	1,029.4	1,649.7	1,171.0	665.2	2,168.1	691.6	3,168.9	26,172.9	
	(Sub-total)	678.4	677.7	678.4	2,653.1	1,749.7	1,311.6	461.6	1,111.8	1,539.2	623.3	1,048.6	1,270.7	899.8	1,029.4	1,649.7	1,171.0	665.2	2,168.1	691.6	3,168.9	26,172.9	
3	Udaipur	2,219.2	919.3	3,619.3	8,878.2	10,078.9	9,884.6	1,300.7	2,163.0	10,813.3	790.4	2,666.6	3,259.9	4,299.2	1,039.8	3,259.2	3,259.2	1,524.6	10,099.2	3,259.2	19,999.9	10,999.9	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Residential	892.1	1,492.6	944.2	2,048.0	1,245.9	1,199.9	1,274.9	1,439.9	861.9	1,296.7	1,193.9	1,710.7	778.0	1,631.4	2,099.1	1,179.7	1,290.1	1,179.7	902.2	1,172.2	26,472.6	
	Energy Consumption	2,009.6	2,222.6	4,999.6	11,099.6	11,431.3	7,000.4	2,609.1	3,819.4	17,999.2	2,907.4	4,931.4	5,461.6	8,133.2	2,979.2	6,169.6	6,169.6	2,979.2	17,999.2	4,999.6	22,778.7	190,999.2	
	(Sub-total)	2,009.6	2,222.6	4,999.6	11,099.6	11,431.3	7,000.4	2,609.1	3,819.4	17,999.2	2,907.4	4,931.4	5,461.6	8,133.2	2,979.2	6,169.6	6,169.6	2,979.2	17,999.2	4,999.6	22,778.7	190,999.2	
4	Jaipur	2,417.9	2,192.3	3,719.9	10,273.2	21,929.9	6,933.9	3,179.9	4,057.1	18,242.1	1,917.2	3,847.4	7,039.1	9,799.4	1,917.2	19,877.2	19,877.2	3,251.4	99,199.2	29,199.2	99,199.2	100,999.2	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Residential	977.6	794.3	763.4	1,898.7	799.9	1,634.0	1,094.2	1,199.9	869.2	1,308.8	2,208.8	6,659.2	979.2	1,699.7	2,410.9	1,367.8	1,367.8	1,367.8	993.3	1,294.2	31,999.2	
	Energy Consumption	2,009.6	2,098.6	4,462.6	12,466.6	21,779.1	10,799.6	4,799.6	9,799.6	17,999.6	2,907.4	9,999.6	13,679.4	9,999.6	3,279.6	19,999.6	19,999.6	4,999.6	99,199.6	29,199.6	149,999.6	207,999.6	
	(Sub-total)	2,009.6	2,098.6	4,462.6	12,466.6	21,779.1	10,799.6	4,799.6	9,799.6	17,999.6	2,907.4	9,999.6	13,679.4	9,999.6	3,279.6	19,999.6	19,999.6	4,999.6	99,199.6	29,199.6	149,999.6	207,999.6	
5	Udaipur	13.2	7.3	31.1	126.8	107.8	97.2	19.4	28.4	162.7	7.0	77.8	92.4	95.4	6.6	6.6	30.2	24.6	173.9	40.4	191.6	1,199.9	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Commercial/Residential	199.9	193.1	192.4	224.6	148.0	172.5	129.0	199.0	119.4	124.0	119.4	191.9	63.7	199.4	217.8	129.0	124.0	124.0	191.7	178.1	2,799.2	
	Energy Consumption	122.1	190.4	133.6	369.8	269.8	190.4	192.8	179.4	257.9	141.3	147.2	204.2	129.1	374.1	293.3	164.1	164.1	164.1	129.1	277.9	3,879.0	
	(Sub-total)	122.1	190.4	133.6	369.8	269.8	190.4	192.8	179.4	257.9	141.3	147.2	204.2	129.1	374.1	293.3	164.1	164.1	164.1	129.1	277.9	3,879.0	
6	Maharaj Garh	179.8	199.9	799.5	3,279.1	3,199.9	1,579.6	294.9	210.9	3,199.9	84.0	449.8	994.9	1,449.8	199.9	1,271.2	992.2	799.1	1,449.8	1,449.8	5,299.9	31,299.9	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Commercial/Residential	693.8	918.2	919.2	1,399.2	892.1	746.8	624.1	899.9	974.9	899.9	799.2	1,022.9	609.6	892.8	1,318.6	779.8	799.4	779.4	919.2	919.2	19,999.2	
	Energy Consumption	769.9	1,629.9	1,412.8	4,991.6	4,991.6	2,222.5	1,199.7	1,199.7	1,199.7	899.9	1,999.2	1,917.4	2,999.4	1,279.9	3,077.9	3,279.9	1,699.9	6,667.2	2,077.9	17,971.3	64,799.9	
	(Sub-total)	769.9	1,629.9	1,412.8	4,991.6	4,991.6	2,222.5	1,199.7	1,199.7	1,199.7	899.9	1,999.2	1,917.4	2,999.4	1,279.9	3,077.9	3,279.9	1,699.9	6,667.2	2,077.9	17,971.3	64,799.9	
7	Sarda Sar	307.9	1,818.4	2,199.0	27,999.2	14,799.6	6,992.7	2,344.3	9,099.9	19,999.9	1,999.9	6,991.7	7,721.8	9,691.9	1,199.2	4,992.3	4,992.3	4,992.3	28,199.2	9,992.0	27,299.9	174,999.9	
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Energy Consumption	697.9	1,818.4	2,199.0	27,999.2	14,799.6	6,992.7	2,344.3	9,099.9	19,999.9	1,999.9	6,991.7	7,721.8	9,691.9	1,199.2	4,992.3	4,992.3	4,992.3	28,199.2	9,992.0	27,299.9	174,999.9	
	(Sub-total)	697.9	1,818.4	2,199.0	27,999.2	14,799.6	6,992.7	2,344.3	9,099.9	19,999.9	1,999.9	6,991.7	7,721.8	9,691.9	1,199.2	4,992.3	4,992.3	4,992.3	28,199.2	9,992.0	27,299.9	174,999.9	
8	Total	9,245.4	9,245.4	17,429.8	91,297.4	14,779.6	28,729.7	9,999.9	11,329.6	32,999.9	1,999.9	19,999.9	36,197.1	22,999.9	3,079.9	30,999.9	30,999.9	1,999.9	1,999.9	1,999.9	1,999.9	1,999.9	71,999.9
	Industrial Nitrates Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Gas Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Residential	2,933.3	4,073.9	2,871.3	9,723.3	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	4,521.1	3,647.9	
	Energy Consumption	9,245.4	9,245.4	17,429.8	91,297.4	14,779.6	28,729.7	9,999.9	11,329.6	32,999.9	1,999.9	19,999.9	36,197.1	22,999.9	3,079.9	30,999.9	30,999.9	1,999.9	1,999.9	1,999.9	1,999.9	71,999.9	
	(Sub-total)	9,245.4	9,245.4	17,429.8	91,297.4	14,779.6	28,729.7	9,999.															

Table 4.9 : District wise TOTAL emission quantity by combustion & evaporation (De-Hoching, 2016)

Emission	Districts																			Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20
1	Emission																				
SO _x	6,194.8	5,262.3	6,109.4	32,377.6	33,099.0	17,568.8	7,448.8	9,896.3	31,611.2	9,093.3	11,489.4	19,862.7	12,472.0	6,072.0	24,248.0	24,901.9	8,839.4	74,722.0	28,101.0	148,049.3	626,663.3
NO _x	2,149.2	2,872.1	3,881.8	19,227.1	19,099.9	8,969.8	2,762.8	3,849.2	15,096.5	1,990.7	4,208.4	6,549.0	9,889.0	2,574.0	7,811.2	30,872.2	2,829.7	20,369.1	7,790.2	47,532.9	186,946.4
CO	1,072.3	1,190.0	2,247.7	14,889.0	11,244.2	5,674.5	2,372.0	2,872.7	13,070.7	1,061.3	2,739.1	9,099.3	6,151.5	1,218.0	4,984.8	3,072.8	2,761.0	17,187.8	4,062.9	19,492.8	134,946.1
HC	190.3	209.2	278.0	744.5	753.9	419.0	208.0	243.4	912.0	329.9	771.9	624.8	333.0	179.8	998.0	639.3	218.0	1,209.1	411.0	2,062.2	10,379.3
PM	720.1	732.2	1,333.6	4,360.8	3,889.4	2,162.2	851.8	1,200.8	3,061.2	385.3	1,389.0	2,198.2	1,639.0	786.0	2,078.8	2,821.3	1,121.0	7,305.3	2,483.2	17,389.4	93,124.4
SO ₂	8,278.7	10,282.8	15,401.1	64,164.6	47,888.4	52,851.7	13,863.1	18,232.4	64,387.4	8,440.1	21,187.8	36,439.6	23,474.4	10,242.7	30,858.0	62,229.0	18,748.0	176,818.1	44,420.0	227,448.4	803,748.0
2	Emission/Abstract																				
SO _x																					-478
NO _x																					122
CO																					32
HC																					10,848
PM																					207
SO ₂																					207
3	Emission																				
SO _x	6,106	5,262	6,109	32,378	33,099	17,569	7,449	9,896	31,611	9,093	11,489	19,863	12,472	6,072	24,248	24,902	8,839	74,723	28,102	148,049	626,664
NO _x	2,149	2,872	3,882	19,227	19,099	8,970	2,763	3,849	15,096	1,991	4,208	6,549	9,889	2,574	7,811	30,872	2,830	20,369	7,790	47,533	186,946
CO	1,072	1,190	2,248	14,889	11,244	5,675	2,372	2,873	13,071	1,061	2,739	9,099	6,151	1,218	4,985	3,073	2,761	17,188	4,063	19,493	134,946
HC	190	209	278	745	754	419	208	243	912	330	772	625	333	180	998	639	218	1,209	411	2,062	10,379
PM	720	732	1,334	4,361	3,890	2,162	852	1,201	3,061	385	1,389	2,198	1,639	786	2,079	2,821	1,121	7,305	2,483	17,389	93,124
SO ₂	10,071	10,077	16,053	69,263	64,087	34,267	14,000	18,719	65,678	8,440	22,812	36,439	23,474	10,243	30,858	62,229	18,748	176,818	44,420	227,448	803,748

Table 2.0-1 : Fuel consumption of big factories (>100 personnel) (Do-Nothing, 2010)

No	Industrial Code	District	Location		Fuel Consumption by Factory					Total Fuel Consumption (10 ³ Tonne)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ Tonne)	Heavy Oil (10 ³ Tonne)	Gas Oil (10 ³ Tonne)	Kerosene (10 ³ Tonne)	Gasoline (10 ³ Tonne)		LPG (10 ³ Tonne)
1	3120	4	512740	354331	2,195,268	0	1,839,224	0	0	0	4,034,492
2	3130	4	512854	354436	0	0	3,148,885	0	0	0	3,148,885
3	3112	9	510143	354045	18,016,363	0	0	0	0	0	18,016,363
4	3130	9	512808	354079	8,007,266	0	5,004,564	0	0	0	13,011,830
5	3130	12	512148	354200	1,751,584	0	125,114	0	0	0	1,876,698
6	3119	10	512224	354200	0	0	373,342	0	0	0	373,342
7	3140	11	512302	354229	0	8,543,099	0	0	22,500	0	8,565,599
8	3115	16	512519	353948	80,064,645	0	3,753,415	0	0	0	83,818,060
9	3129	18	512020	354000	0	0	25,023	0	0	0	25,023
10	3130	18	512104	354024	0	0	9,008,197	0	0	0	9,008,197
11	3118	18	512606	354031	375,342	0	0	0	0	0	375,342
12	3117	18	512820	354029	31,538,899	0	3,803,110	0	0	0	35,342,009
(Total)					121,892,118	8,543,099	27,998,588	0	22,500	18,520	159,574,835
13	3240	4	510308	354354	84,071	0	0	0	0	0	84,071
14	3211	9	510106	354074	180,164	2,101,913	3,002,132	0	0	0	5,284,209
15	3240	9	510154	354243	10,858,873	0	458,695	0	0	0	11,317,568
16	3211	9	510856	354341	1,204,188	0	2,208,314	0	0	0	3,412,502
17	3211	18	510119	354059	4,524,008	300,373	380,328	0	0	0	5,204,709
18	3211	20	512809	354074	17,748,000	0	5,404,518	0	0	0	23,152,518
(Total)					30,699,484	2,402,286	11,695,037	0	0	0	44,896,807
19	3213	2	512040	354231	0	0	350,318	0	0	0	350,318
20	3200	9	510320	354240	675,619	0	71,008	0	0	0	746,627
21	3213	18	512120	354024	0	0	860,548	0	0	0	860,548
(Total)					675,619	0	1,281,874	0	0	0	1,957,493
22	3109	18	512120	354024	84,447	0	0	0	0	0	84,447
(Total)					84,447	0	0	0	0	0	84,447
23	3521	4	512436	354373	2,808,081	0	0	0	0	0	2,808,081
24	3521	9	512120	354224	4,428,528	0	72,508	0	0	0	4,501,036
25	3521	9	510328	354304	3,913,188	0	0	0	0	0	3,913,188
26	3526	9	510854	354248	2,894,687	0	0	0	0	0	2,894,687
27	3521	9	512350	354208	1,000,911	0	5,000	0	0	0	1,005,911
28	3521	9	510154	354222	415,008	0	0	0	0	0	415,008
29	3521	9	510740	354405	0	1,814,151	62,567	0	0	0	1,876,718
30	3523	9	512120	354045	10,115,334	0	13,114,860	0	0	0	23,230,194
31	3521	9	510856	354410	12,010,829	0	800,455	0	0	0	12,811,284
32	3581	9	511644	354224	18,787,877	2,001,821	135,123	0	0	0	20,794,821
33	3529	18	512108	354000	187,850	0	90,062	0	0	0	277,912
34	3523	18	512104	354242	3,800,278	0	0	0	0	0	3,800,278
35	3522	18	512124	354020	581,899	0	6,393	0	0	0	588,292
36	3561	18	512114	354330	354,087	0	68,110	0	0	0	422,197
37	3522	18	512108	354024	1,183,618	0	0	0	0	0	1,183,618
38	3530	18	510810	354318	900,820	0	4,441,541	0	0	0	5,342,361
39	3523	18	512100	354236	0	0	0	0	0	0	0
40	3530	20	512502	354311	0	35,680,758	9,038,224	0	0	100,000	44,719,032
(Total)					62,511,458	37,682,721	28,119,758	0	0	100,000	128,313,937
41	3610	9	512144	354011	1,585,443	0	3,753	0	0	0	1,589,196
42	3620	15	512144	354011	57,718,733	407,871	382,848	0	0	0	58,509,452
43	3620	15	512906	353948	48,312,131	0	0	0	0	0	48,312,131
44	3620	20	512906	353948	78,154,558	12,511,364	0	0	0	0	90,665,922
45	3620	20	512920	353928	28,021,456	0	4,612,181	0	0	0	32,633,637
(Total)					212,782,921	13,919,235	4,615,831	0	0	0	226,717,987
46	3710	8	510024	354436	0	0	800,820	0	0	0	800,820
47	3710	9	510528	354424	0	0	1,801,839	0	0	0	1,801,839
48	3710	18	512020	354026	1,878,708	0	12,511,394	0	0	0	14,390,102
49	3710	18	512108	353932	632,819	0	0	0	0	0	632,819
50	3710	18	512124	354031	9,195,868	0	250,228	0	0	0	9,446,096
51	3710	18	510348	353928	0	0	0	0	0	0	0
(Total)					11,707,585	0	15,063,251	0	0	0	26,770,836
52	3810	4	510424	354344	366,574	0	0	0	0	0	366,574
53	3810	4	510440	354400	0	0	880,801	0	0	0	880,801
54	3827	4	510358	354274	3,002,732	0	0	0	0	0	3,002,732
55	3810	5	510118	354211	2,292,474	0	300,273	0	0	0	2,592,747
56	3840	9	510310	354314	750,963	0	480,419	0	0	0	1,231,382
57	3851	9	510700	354040	388,361	0	135,129	0	0	0	523,490
58	3840	9	510108	354328	6,142,454	0	1,251,138	10,900	0	0	7,404,592
59	3828	9	512258	354245	4,086,173	0	300,273	0	0	0	4,386,446
60	3827	9	511800	354229	3,008,197	45,041	800,585	0	0	0	3,853,823
61	3840	9	510320	354306	17,821,534	0	1,761,800	0	1,802,758	0	21,386,092
62	3840	9	512232	354245	13,130,771	0	0	0	0	0	13,130,771
63	3827	14	512540	354101	41,088,898	0	0	0	0	0	41,088,898
64	3819	15	512820	353945	0	0	1,651,503	0	0	0	1,651,503
65	3839	15	512808	354128	8,525,820	0	18,264,800	0	0	0	26,790,620
66	3839	18	510518	354432	23,812	0	122,511	0	0	0	146,323
67	3829	18	511820	354013	0	0	205,887	0	0	3,728,856	3,934,743
68	3843	18	512148	353908	522,434	0	0	0	0	0	522,434
69	3839	18	511308	354213	180,164	0	0	0	0	0	180,164
70	3819	18	512104	354208	680,801	4,363,852	0	0	0	0	4,944,653
71	3827	18	512158	354014	990,802	0	1,802	0	0	0	992,604
72	3840	18	510500	354448	5,005,464	0	450,410	0	0	0	5,455,874
73	3840	18	512126	353726	4,432,718	0	2,258,324	0	0	0	6,691,042
(Total)					120,492,928	4,368,003	8,683,213	10,900	1,802,758	3,728,856	138,086,658
(Grand Total)					80,425,833	78,228,151	114,709,243	10,900	1,802,758	3,828,856	165,276,741

Table 2.0-2 : Fuel consumption of energy conversion sector (Do-Nothing, 2010)

No	Name	District	Location		Fuel Consumption by Factory					Total Fuel Consumption (10 ³ Tonne)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ Tonne)	Heavy Oil (10 ³ Tonne)	Gas Oil (10 ³ Tonne)	Kerosene (10 ³ Tonne)	Gasoline (10 ³ Tonne)		LPG (10 ³ Tonne)
1	Energy Recovery Plant	2008	512540	353940	521,028,311	510,214,520	23,144,115	0	0	0	1,035,343
2.1	Boiler	18	512540	353940	218,879,000	210,875,000	12,067,000	0	0	0	430,811
2.2	Exhaust	2	512110	354324	71,083,000	0	198,000	0	0	0	
2.3	Boiler	2008	512440	353720	454,167,000	0	147,568,000	0	0	0	601,735
(Total)					1,276,087,311	721,089,520	182,875,115	0	0	0	2,110,053

Table 2.1 : SOx emission of big factories (Do-Nothing, 2010)

No	Industrial Code	District	Location		Emission amount by Factor					Total emission (ton/year)	
			Longitude (DM/S)	Latitude (DM/S)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LPG (ton/year)
1	3129	4	51/77/40	35/45/11	0.1	0.0	23.0	0.0	0.0	0.0	23.1
2	3130	4	51/75/24	35/44/35	0.0	0.0	40.7	0.0	0.0	0.1	40.8
3	3112	9	51/15/42	35/42/45	0.7	0.0	0.0	0.0	0.0	0.0	0.7
4	3130	9	51/15/08	35/42/22	0.3	0.0	64.8	0.0	0.0	0.0	65.1
5	3130	10	51/21/48	35/42/00	0.1	0.0	1.6	0.0	0.0	0.0	1.7
6	3119	10	51/22/24	35/42/00	0.0	0.0	4.9	0.0	0.0	0.1	5.0
7	3140	11	51/23/30	35/42/28	0.0	454.4	5.1	0.0	0.0	0.0	459.5
8	3113	16	51/25/10	35/42/48	2.3	0.0	45.5	0.0	0.0	0.0	47.8
9	3129	18	51/25/20	35/42/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	51/17/34	35/42/24	0.0	0.0	116.6	0.0	0.0	0.0	116.6
11	3110	18	51/15/08	35/42/33	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3112	18	51/15/10	35/42/20	1.3	0.0	26.4	0.0	0.0	0.0	27.7
(Total)		31			2.4	454.4	183.7	0.0	0.0	0.2	640.7
13	3240	4	51/33/00	35/42/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	51/18/06	35/42/24	0.0	108.7	38.9	0.0	0.0	0.0	147.6
15	3240	9	51/14/54	35/42/43	0.4	0.0	5.9	0.0	0.0	0.0	6.4
16	3211	9	51/09/58	35/42/47	0.0	0.0	29.3	0.0	0.0	0.0	29.3
17	3211	18	51/18/18	35/42/26	0.2	13.3	4.7	0.0	0.0	0.0	18.2
18	3211	20	51/23/19	35/42/04	0.7	0.0	69.9	0.0	0.0	0.0	70.6
(Total)		27			1.3	122.0	118.7	0.0	0.0	0.0	242.0
19	3313	2	51/25/42	35/42/11	0.0	0.0	4.5	0.0	0.0	0.0	4.5
20	3320	9	51/13/20	35/42/42	0.0	0.0	0.9	0.0	0.0	0.0	0.9
21	3313	18	51/17/20	35/42/34	0.0	0.0	7.8	0.0	0.0	0.0	7.8
(Total)		21			0.0	0.0	13.2	0.0	0.0	0.0	13.2
22	3111	11	51/17/20	35/42/24	0.0	82.1	0.0	0.0	0.0	0.0	82.1
(Total)		21			0.0	82.1	0.0	0.0	0.0	0.0	82.1
23	3522	4	51/24/26	35/42/23	0.1	0.0	0.0	0.0	0.0	0.0	0.1
24	3521	9	51/23/10	35/42/59	0.2	0.0	0.0	0.0	0.0	0.0	0.2
25	3521	9	51/13/26	35/42/04	0.1	0.0	0.0	0.0	0.0	0.0	0.1
26	3522	9	51/15/54	35/42/48	0.1	0.0	0.0	0.0	0.0	0.0	0.1
27	3522	9	51/13/50	35/42/08	0.0	0.0	0.1	0.0	0.0	0.0	0.1
28	3521	9	51/14/54	35/42/22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3521	9	51/07/40	35/42/05	0.0	53.4	0.8	0.0	0.0	0.0	54.2
30	3523	9	51/17/20	35/42/43	0.4	0.0	177.5	0.0	0.0	0.0	177.9
31	3522	9	51/08/58	35/42/45	0.3	0.0	6.5	0.0	0.0	0.0	6.8
32	3521	9	51/18/44	35/42/24	0.8	103.1	1.7	0.0	0.0	0.0	105.6
33	3529	18	51/17/26	35/42/02	0.0	0.0	1.2	0.0	0.0	0.0	1.2
34	3523	18	51/14/04	35/42/42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	3522	18	51/18/24	35/42/20	0.0	0.0	0.1	0.0	0.0	0.0	0.1
36	3521	18	51/10/14	35/42/30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	3522	18	51/11/28	35/42/21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	3520	18	51/09/10	35/42/19	0.0	0.0	57.5	0.0	0.0	0.0	57.5
39	3523	18	51/10/30	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3520	20	51/25/20	35/42/11	0.0	184.8	118.8	0.0	0.0	0.0	303.6
(Total)		28			1.5	287.9	182.0	0.0	0.0	0.0	471.4
41	3610	9			0.1	0.0	0.0	0.0	0.0	0.0	0.1
42	3620	9	51/18/44	35/42/13	2.4	21.0	3.0	0.0	0.0	0.0	26.4
43	3621	13			1.9	0.0	0.0	0.0	0.0	0.0	1.9
44	3621	13	51/25/06	35/42/48	3.3	644.3	0.0	0.0	0.0	0.0	647.6
45	3620	20	51/25/20	35/42/11	2.2	0.0	59.7	0.0	0.0	0.0	61.9
(Total)		28			10.9	665.3	62.7	0.0	0.0	0.0	738.9
46	3710	8	51/05/54	35/42/50	0.0	0.0	8.3	0.0	0.0	0.0	8.3
47	3710	8	51/06/58	35/42/24	0.0	0.0	23.3	0.0	0.0	0.0	23.3
48	3710	18	51/20/59	35/42/26	0.1	0.0	151.8	0.0	0.0	0.0	151.9
49	3710	18	51/18/14	35/42/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3710	18	51/15/24	35/42/37	0.4	0.0	3.2	0.0	0.0	0.0	3.6
51	3710	19	51/18/46	35/42/26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		27			0.5	0.0	185.3	0.0	0.0	0.0	185.8
52	3813	4	51/24/21	35/42/44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3819	4	51/24/40	35/42/00	0.0	0.0	11.4	0.0	0.0	0.0	11.4
54	3819	4	51/24/56	35/42/24	0.1	0.0	0.0	0.0	0.0	0.0	0.1
55	3819	4	51/19/18	35/42/11	0.1	0.0	3.8	0.0	0.0	0.0	4.0
56	3843	9	51/13/10	35/42/14	0.0	0.0	6.9	0.0	0.0	0.0	6.9
57	3851	9	51/11/20	35/42/40	0.0	0.0	1.7	0.0	0.0	0.0	1.7
58	3843	9	51/11/15	35/42/28	0.3	0.0	18.2	0.0	0.0	0.0	18.5
59	3826	9	51/12/55	35/42/25	0.2	0.0	3.9	0.0	0.0	0.0	4.1
60	3827	9	51/15/60	35/42/28	0.4	2.3	7.8	0.0	0.0	0.0	10.5
61	3843	9	51/10/20	35/42/38	0.7	0.0	22.8	0.0	2.1	0.0	25.6
62	3843	9	51/12/32	35/42/42	0.6	0.0	0.0	0.0	0.0	0.0	0.6
63	3827	14	51/25/40	35/42/31	1.7	0.0	0.0	0.0	0.0	0.0	1.7
64	3819	15	51/25/20	35/42/45	0.0	0.0	21.4	0.0	0.0	0.0	21.4
65	3830	15	51/29/08	35/42/28	0.3	0.0	210.3	0.0	0.0	0.0	210.6
66	3830	18	51/05/15	35/42/32	0.0	0.0	1.6	0.0	0.0	0.0	1.6
67	3829	18	51/15/20	35/42/13	0.0	0.0	2.1	0.0	0.0	0.0	2.1
68	3843	18	51/17/46	35/42/06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3830	18	51/13/06	35/42/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	51/10/46	35/42/28	0.0	22.4	0.0	0.0	0.0	0.0	22.4
71	3827	18	51/18/52	35/42/14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3843	18	51/05/00	35/42/48	0.2	0.0	5.8	0.0	0.0	0.0	6.1
73	3843	18	51/18/26	35/42/26	0.2	0.0	2.0	0.0	0.0	0.0	2.2
(Total)		28			4.9	23.3	353.3	0.0	2.1	0.0	380.3
(Grand Total)					21.9	439.7	1484.1	0.0	2.1	0.0	3967.8

Table 2.1 : SOx emission of big factories (Do-Nothing, 2010)

No	Name	District	Location		Emission amount by Factor					Total emission (ton/year)	
			Longitude (DM/S)	Latitude (DM/S)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LPG (ton/year)
1	Tehran Railway Power Plant	2008	51/25/40	35/42/40	21.7	3321.6	292.5	0.0	0.0	0.0	3615.8
2	Bohai - Forouz Ray	2006	51/24/00	35/41/20	30.9	14,006.7	2,006.1	0.0	0.0	0.0	16,043.7
(Total)					52.6	17,328.3	2,298.6	0.0	0.0	0.0	19,656.5

Table 2.2 : NOx emission of big factories (Do-Nothina, 2010)

No	Industrial Code	District	Location		Emission amount by Factor						Total emission (ton/year)
			Longitude (DD/SS)	Latitude (DD/SS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
112											
113											
114											
115											
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(Grand Total)											

Table 2.2 : NOx emission of big factories (Do-Nothina, 2010)

No	Name	District	Location		Emission amount by Factor						Total emission (ton/year)	
			Longitude (DD/SS)	Latitude (DD/SS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)		
201	Tetcon Refinery	2008	31°25'40"	35°32'40"	3,089.9	6,734.6	253.2					12,057.7
202	Power Plant				2,219.5	2,780.8	1,748.5					11,748.8
203	Plant	18	31°25'40"	35°38'40"	2,108.3	2,780.8	132.0					5,021.1
204	Plant	2	31°21'10"	35°43'24"	711.1		2.2					713.3
205	Plant	2006	31°24'20"	35°31'20"	4,389.1		1,614.3					6,003.4
(Total)					12,287.4	13,306.2	4,497.0					31,090.6

Table 2.3 : CO emission of big factories (Do-Nothing, 2010)

No	Industrial Code	District	Longitude (D/M/S)	Latitude (D/M/S)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	3120	4	51/27/40	35/43/31	0.0	0.0	0.0	0.0	0.0	0.0	1.5
2	3120	4	51/29/54	35/44/35	0.0	0.0	0.0	0.0	0.0	0.0	1.6
3	3112	9	51/18/40	35/40/45	2.2	0.0	0.0	0.0	0.0	0.0	4.7
4	3130	9	51/19/06	35/40/29	2.3	0.0	2.5	0.0	0.0	0.0	4.8
5	3130	10	51/21/48	35/42/00	0.3	0.0	0.1	0.0	0.0	0.0	0.4
6	3119	10	51/22/24	35/42/00	0.0	0.0	0.2	0.0	0.0	0.0	0.2
7	3142	11	51/23/10	35/40/29	0.0	4.3	0.2	0.0	0.0	0.0	10.1
8	3112	15	51/25/00	35/40/48	11.2	0.0	1.8	0.0	0.0	0.0	13.1
9	3128	15	51/25/00	35/40/48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3128	15	51/25/00	35/40/48	0.0	0.0	4.5	0.0	0.0	0.0	4.5
11	3130	15	51/18/04	35/40/31	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12	3119	15	51/18/10	35/40/29	0.1	0.0	1.8	0.0	0.0	0.0	10.9
13	3114	15	51/18/10	35/40/29	0.0	0.0	1.7	0.0	0.0	0.0	6.2
(Total)					2.0	4.3	11.7	0.0	0.0	0.0	26.2
14	3240	4	51/33/00	35/13/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	3211	9	51/18/06	35/40/29	0.1	1.0	0.2	0.0	0.0	0.0	2.6
16	3240	9	51/18/06	35/40/29	0.3	0.0	0.2	0.0	0.0	0.0	3.4
17	3211	15	51/25/00	35/40/48	0.3	0.0	1.1	0.0	0.0	0.0	1.9
18	3211	15	51/25/00	35/40/48	1.3	0.1	0.2	0.0	0.0	0.0	1.6
19	3211	20	51/25/00	35/40/48	4.8	0.0	0.0	0.0	0.0	0.0	7.5
20	3211	20	51/25/00	35/40/48	0.0	0.0	0.0	0.0	0.0	0.0	18.6
(Total)					6.7	1.1	1.4	0.0	0.0	0.0	18.6
21	3113	2	51/20/40	35/42/11	0.0	0.0	0.2	0.0	0.0	0.0	0.3
22	3320	9	51/13/20	35/42/40	0.2	0.0	0.3	0.0	0.0	0.0	0.2
23	3113	15	51/17/20	35/42/24	0.3	0.0	0.3	0.0	0.0	0.0	0.3
(Total)					0.5	0.0	0.5	0.0	0.0	0.0	0.7
24	3113	10	51/17/20	35/42/24	0.3	0.3	0.0	0.0	0.0	0.0	1.1
(Total)					0.7	0.3	0.0	0.0	0.0	0.0	1.4
25	3522	4	51/34/06	35/43/23	0.8	0.0	0.0	0.0	0.0	0.0	0.8
26	3522	9	51/18/10	35/40/29	1.3	0.0	0.0	0.0	0.0	0.0	1.3
27	3521	9	51/18/06	35/40/29	1.0	0.0	0.0	0.0	0.0	0.0	1.0
28	3526	9	51/18/06	35/40/29	0.8	0.0	0.0	0.0	0.0	0.0	0.8
29	3522	9	51/18/06	35/40/29	0.3	0.0	0.0	0.0	0.0	0.0	0.3
30	3521	9	51/18/06	35/40/29	0.1	0.0	0.0	0.0	0.0	0.0	0.1
31	3522	9	51/17/40	35/43/05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	3523	9	51/17/20	35/40/45	2.9	0.0	8.9	0.0	0.0	0.0	9.8
33	3522	9	51/06/06	35/44/10	3.4	0.0	0.3	0.0	0.0	0.0	3.7
34	3521	9	51/18/06	35/40/29	3.4	1.0	0.1	0.0	0.0	0.0	4.4
35	3522	15	51/17/20	35/40/45	0.1	0.0	0.0	0.0	0.0	0.0	0.1
36	3523	15	51/14/04	35/42/40	1.0	0.0	0.0	0.0	0.0	0.0	1.0
37	3523	15	51/14/04	35/42/40	0.2	0.0	0.0	0.0	0.0	0.0	0.2
38	3523	15	51/14/04	35/42/40	0.1	0.0	0.0	0.0	0.0	0.0	0.1
39	3521	15	51/17/20	35/40/45	0.3	0.0	0.0	0.0	0.0	0.0	0.3
40	3520	15	51/06/10	35/44/10	0.3	0.0	2.2	0.0	0.0	0.0	2.5
41	3523	15	51/08/30	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3520	20	51/25/00	35/40/48	0.0	17.3	4.5	0.0	0.0	0.0	22.0
(Total)	Dehla Tehran Refinery				0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)					18.0	19.3	14.1	0.0	0.0	0.0	51.4
43	3510	9	51/18/44	35/40/13	0.5	0.0	0.0	0.0	0.0	0.0	0.5
44	3510	15	51/25/00	35/40/48	15.8	0.2	0.2	0.0	0.0	0.0	17.0
45	3502	15	51/25/00	35/40/48	13.3	0.0	0.0	0.0	0.0	0.0	13.3
46	3502	15	51/25/00	35/40/48	22.9	6.1	0.0	0.0	0.0	0.0	29.0
47	3510	20	51/25/00	35/40/48	20.3	0.0	2.3	0.0	0.0	0.0	22.6
(Total)					74.1	6.3	2.5	0.0	0.0	0.0	82.9
48	3710	8	51/30/54	35/42/58	0.0	0.0	0.3	0.0	0.0	0.0	0.3
49	3710	9	51/08/06	35/44/24	0.0	0.0	0.3	0.0	0.0	0.0	0.3
50	3710	15	51/25/00	35/40/48	0.2	0.0	0.0	0.0	0.0	0.0	0.2
51	3710	15	51/18/24	35/40/31	2.6	0.0	0.0	0.0	0.0	0.0	2.6
52	3710	19	51/18/40	35/38/58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)					2.8	0.0	1.5	0.0	0.0	0.0	4.3
53	3813	4	51/34/24	35/43/49	0.1	0.0	0.0	0.0	0.0	0.0	0.1
54	3819	4	51/34/40	35/44/00	0.0	0.0	0.1	0.0	0.0	0.0	0.1
55	3827	9	51/18/15	35/42/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	3843	9	51/13/10	35/43/11	0.2	0.0	0.2	0.0	0.0	0.0	0.4
57	3851	9	51/17/20	35/43/40	0.1	0.0	0.1	0.0	0.0	0.0	0.2
58	3843	9	51/11/15	35/43/28	1.8	0.0	0.5	0.0	0.0	0.0	2.4
59	3849	9	51/12/04	35/42/45	1.2	0.0	0.2	0.0	0.0	0.0	1.3
60	3827	9	51/18/00	35/42/29	2.8	0.0	0.3	0.0	0.0	0.0	2.9
61	3843	9	51/10/20	35/43/38	5.2	0.0	0.8	0.0	0.0	0.0	442.6
62	3843	9	51/12/32	35/42/48	4.3	0.0	0.0	0.0	0.0	0.0	4.3
63	3827	14	51/28/40	35/41/31	11.8	0.0	0.0	0.0	0.0	0.0	11.8
64	3819	15	51/28/20	35/38/55	0.0	0.0	0.8	0.0	0.0	0.0	0.8
65	3836	15	51/28/06	35/41/28	1.9	0.0	8.1	0.0	0.0	0.0	10.0
66	3830	15	51/09/15	35/44/32	0.0	0.0	0.1	0.0	0.0	0.0	0.1
67	3820	15	51/18/00	35/40/13	0.0	0.0	0.1	0.0	0.0	1.5	1.2
68	3843	15	51/17/45	35/38/08	0.1	0.0	0.0	0.0	0.0	0.0	0.1
69	3839	18	51/13/06	35/42/13	0.1	0.0	0.0	0.0	0.0	0.0	0.1
70	3822	15	51/19/45	35/42/06	0.2	2.1	0.0	0.0	0.0	0.0	2.3
71	3827	15	51/18/52	35/40/14	0.3	0.0	0.0	0.0	0.0	0.0	0.3
72	3843	15	51/09/00	35/44/48	1.7	0.0	0.2	0.0	0.0	0.0	2.0
73	3843	15	51/18/58	35/37/20	1.8	0.0	1.1	0.0	0.0	0.0	2.7
(Total)					34.6	2.1	19.4	0.0	48.5	1.1	67.1
(Grand Total)					172.9	38.9	97.4	0.0	447.1	1.1	747.4

Table 2.3 : CO emission of big factories (Do-Nothing, 2010)

No	Name	District	Longitude (D/M/S)	Latitude (D/M/S)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	Tehran Refinery	2008	51/29/40	35/32/40	191.7	331.5	13.4	0.0	0.0	0.0	498.6
2	Power Plant				116.0	136.9	66.5	0.0	0.0	0.0	451.4
2.1	- Basal	15	51/29/40	35/32/40	62.1	136.9	7.4	0.0	0.0	0.0	207.4
2.2	- Forwad	2	51/21/09	35/32/11	21.3	0.0	0.1	0.0	0.0	0.0	21.4
2.3	- Pav	2008	51/24/00	35/31/20	131.8	0.0	60.9	0.0	0.0	0.0	223.8
(Total)					267.3	483.3	111.9	0.0	0.0	0.0	634.0

Table 2.4 : HC emission of big factories (Do-Nothing, 2010)

No	Industrial Code	District	Longitude (D/M/S)	Latitude (D/M/S)	Natural Gas (Ton/year)	Heavy Oil (Ton/year)	Gas Oil (Ton/year)	Kerosene (Ton/year)	Gasoline (Ton/year)	LPG (Ton/year)	Total emission (Ton/year)
1	3100	4	31/27/42	35/33/21	0.1	0.0	0.8	0.0	0.0	0.0	0.7
2	3100	4	31/29/54	35/44/30	0.0	0.0	1.1	0.0	0.0	0.0	1.1
3	3100	9	31/18/40	35/40/40	0.1	0.0	0.0	0.0	0.0	0.0	0.7
4	3100	9	31/18/08	35/40/29	0.0	0.0	1.7	0.0	0.0	0.0	2.1
5	3100	10	31/21/48	35/42/00	0.1	0.0	0.0	0.0	0.0	0.0	0.1
6	3100	10	31/22/24	35/42/00	0.0	0.0	0.1	0.0	0.0	0.0	0.1
7	3140	11	31/23/19	35/40/29	0.0	3.2	0.1	0.0	0.2	0.0	3.6
8	3119	12	31/25/12	35/42/48	2.5	0.0	1.3	0.0	0.0	0.0	3.8
9	3129	12	31/29/20	35/40/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	12	31/17/04	35/45/24	0.0	0.0	3.1	0.0	0.0	0.0	3.1
11	3119	12	31/18/08	35/40/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3112	12	31/18/10	35/42/29	1.3	0.0	1.2	0.0	0.0	0.0	2.5
(Total)	31				3.0	3.2	9.3	0.0	0.2	0.0	17.9
13	3100	4	31/31/00	35/33/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3111	9	31/18/08	35/40/24	0.0	0.0	1.0	0.0	0.0	0.0	1.0
15	3140	9	31/18/54	35/42/40	0.4	0.0	0.2	0.0	0.0	0.0	0.6
16	3111	9	31/18/58	35/40/47	0.0	0.0	0.8	0.0	0.0	0.0	0.8
17	3111	12	31/18/18	35/39/56	0.1	0.1	0.1	0.0	0.0	0.0	0.4
18	3111	20	31/26/10	35/37/04	0.0	0.0	1.8	0.0	0.0	0.0	1.8
(Total)	31				0.5	0.2	3.9	0.0	0.0	0.0	4.6
19	3113	2	31/20/40	35/42/11	0.0	0.0	0.1	0.0	0.0	0.0	0.1
20	3100	9	31/19/20	35/42/40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3113	12	31/17/00	35/42/24	0.0	0.0	0.2	0.0	0.0	0.0	0.2
(Total)	31				0.0	0.0	0.4	0.0	0.0	0.0	0.4
22	3100	12	31/17/20	35/42/24	0.0	1.0	0.0	0.0	0.0	0.0	1.0
(Total)	31				0.0	1.0	0.0	0.0	0.0	0.0	1.0
23	3522	8	31/24/34	35/43/20	0.1	0.0	0.0	0.0	0.0	0.0	0.1
24	3522	8	31/21/30	35/42/28	0.2	0.0	0.0	0.0	0.0	0.0	0.2
25	3521	8	31/17/20	35/43/04	0.1	0.0	0.0	0.0	0.0	0.0	0.1
26	3522	8	31/18/54	35/42/48	0.1	0.0	0.0	0.0	0.0	0.0	0.1
27	3522	8	31/13/50	35/42/38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3521	8	31/14/54	35/42/22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3522	9	31/07/48	35/44/05	0.0	0.7	0.0	0.0	0.0	0.0	0.7
30	3523	9	31/17/20	35/40/45	0.4	0.0	4.8	0.0	0.0	0.0	5.2
31	3522	9	31/06/56	35/44/10	0.0	0.0	0.2	0.0	0.0	0.0	0.2
32	3521	9	31/18/34	35/42/74	0.0	0.7	0.0	0.0	0.0	0.0	0.7
33	3522	12	31/17/28	35/42/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	3523	12	31/14/04	35/42/40	0.1	0.0	0.0	0.0	0.0	0.0	0.1
35	3522	12	31/18/24	35/42/20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	3521	12	31/19/14	35/43/30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	3522	12	31/17/28	35/42/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	3520	12	31/00/10	35/44/19	0.0	0.0	1.3	0.0	0.0	0.0	1.3
39	3523	12	31/10/20	35/42/16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	31/25/20	35/34/11	0.0	13.1	2.1	0.0	0.0	0.0	15.2
(Total)	31				0.8	14.5	1.8	0.0	0.0	0.0	16.1
41	3510	9	31/18/14	35/40/13	0.1	0.0	0.0	0.0	0.0	0.0	0.1
42	3522	9	31/18/14	35/40/13	2.4	0.1	0.1	0.0	0.0	0.0	2.7
43	3522	12	31/22/08	35/42/48	1.9	0.0	0.0	0.0	0.0	0.0	1.9
44	3522	12	31/22/08	35/42/48	1.3	4.6	0.0	0.0	0.0	0.0	7.8
45	3522	20	31/25/20	35/33/38	1.9	0.0	1.8	0.0	0.0	0.0	4.8
(Total)	31				6.6	4.7	1.7	0.0	0.0	0.0	13.0
46	3710	8	31/05/54	35/43/24	0.0	0.0	0.2	0.0	0.0	0.0	0.2
47	3710	9	31/05/54	35/43/24	0.0	0.0	0.8	0.0	0.0	0.0	0.8
48	3710	12	31/00/50	35/38/26	0.1	0.0	4.3	0.0	0.0	0.0	4.4
49	3710	12	31/12/18	35/38/32	0.0	0.0	3.0	0.0	0.0	0.0	3.0
50	3710	12	31/18/24	35/38/37	0.4	0.0	0.1	0.0	0.0	0.0	0.5
51	3710	12	31/18/24	35/38/37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	31				0.5	0.0	12.4	0.0	0.0	0.0	12.9
52	3513	4	31/04/24	35/41/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3512	4	31/04/40	35/41/20	0.0	0.0	0.3	0.0	0.0	0.0	0.3
54	3521	4	31/04/52	35/42/24	0.1	0.0	0.0	0.0	0.0	0.0	0.1
55	3512	5	31/18/18	35/42/11	0.1	0.0	0.1	0.0	0.0	0.0	0.2
56	3543	9	31/03/30	35/43/14	0.0	0.0	0.2	0.0	0.0	0.0	0.2
57	3521	9	31/17/20	35/40/40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3543	9	31/11/16	35/43/28	0.3	0.0	0.4	0.0	0.0	0.0	0.7
59	3529	9	31/12/52	35/42/45	0.2	0.0	0.1	0.0	0.0	0.0	0.3
60	3521	9	31/15/00	35/42/20	0.4	0.0	0.2	0.0	0.0	0.0	0.6
61	3543	9	31/13/20	35/41/38	0.1	0.0	0.8	0.0	18.1	0.0	19.1
62	3543	9	31/13/22	35/41/38	0.8	0.0	0.0	0.0	0.0	0.0	0.8
63	3527	14	31/29/42	35/41/01	1.1	0.0	0.0	0.0	0.0	0.0	1.1
64	3519	15	31/28/22	35/39/45	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	3538	15	31/28/02	35/41/28	3.3	0.0	5.8	0.0	0.0	0.0	9.1
66	3538	18	31/24/18	35/44/21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	3522	18	31/18/20	35/42/13	0.0	0.0	0.1	0.0	0.0	0.0	0.1
68	3543	18	31/17/48	35/38/48	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3539	18	31/13/08	35/42/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3519	18	31/19/48	35/42/06	0.0	1.6	0.0	0.0	0.0	0.0	1.6
71	3521	18	31/15/52	35/40/14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3543	18	31/05/03	35/44/43	0.2	0.0	0.2	0.0	0.0	0.0	0.4
73	3543	18	31/18/56	35/42/26	0.2	0.0	0.8	0.0	0.0	0.0	1.0
(Total)	38				4.9	1.6	9.3	0.0	18.1	0.0	31.9
(Grand Total)					24.9	29.0	39.9	0.0	17.0	0.0	111.8

Table 2.4 : HC emission of big factories (Do-Nothing, 2010)

No	Name	District	Longitude (D/M/S)	Latitude (D/M/S)	Natural Gas (Ton/year)	Heavy Oil (Ton/year)	Gas Oil (Ton/year)	Kerosene (Ton/year)	Gasoline (Ton/year)	LPG (Ton/year)	Total emission (Ton/year)
1	Tehran Refinery	2008	31/25/40	35/30/40	342.7	331.5	13.4	0.0	0.0	0.0	677.6
2	Power Plant				493.6	136.9	92.4	0.0	0.0	0.0	722.9
2.1	- Basal	16	31/25/40	35/30/40	144.2	136.9	7.0	0.0	0.0	0.0	288.1
2.2	- Focus	2	31/21/10	35/43/24	48.6	0.0	0.1	0.0	0.0	0.0	48.7
2.3	- Ray	2008	31/24/20	35/31/26	300.8	0.0	85.3	0.0	0.0	0.0	386.1
(Total)					645.3	468.4	106.7	0.0	0.0	0.0	1,414.9

Table 2.5 : SPM emission of big factories (DO-Nothing, 2010)

No	Industrial Code	District	Longitude (DMS)	Latitude (DMS)	Natural Gas (Ton/Year)	Heavy Oil (Ton/Year)	Gas Oil (Ton/Year)	Kerosene (Ton/Year)	Gasoline (Ton/Year)	LPG (Ton/Year)	Total emission (Ton/Year)
1	3122	4	512740	354031	0.5	0.0	4.6	0.0	0.0	0.0	5.1
2	3130	4	512654	354436	0.0	0.0	7.9	0.0	0.0	0.0	7.9
3	3132	9	511840	354045	4.4	0.0	0.0	0.0	0.0	0.0	4.4
4	3132	9	511806	354079	2.0	0.0	12.3	0.0	0.0	0.0	14.3
5	3132	10	512146	354200	0.4	0.0	0.3	0.0	0.0	0.0	0.7
6	3119	10	512274	354200	0.0	0.0	0.9	0.0	0.0	0.0	1.0
7	3140	11	512310	354079	0.0	24.1	1.1	0.0	0.0	0.0	25.2
8	3115	16	512510	354048	14.8	0.0	8.4	0.0	0.0	0.0	23.2
9	3129	18	512070	354000	0.0	0.0	0.1	0.0	0.0	0.0	0.1
10	3130	18	511734	354524	0.0	0.0	22.6	0.0	0.0	0.0	22.6
11	3119	18	511606	354037	0.1	0.0	0.2	0.0	0.0	0.0	0.1
12	3112	18	511810	354079	7.3	0.0	9.5	0.0	0.0	0.0	16.8
(Total)		31			30.0	24.1	68.1	0.0	0.0	0.0	122.2
13	3243	4	514330	354354	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	511806	354074	0.0	5.7	7.5	0.0	0.0	0.0	13.2
15	3240	9	511454	354243	2.7	0.0	1.1	0.0	0.0	0.0	3.8
16	3211	9	510858	354347	0.3	0.0	5.7	0.0	0.0	0.0	6.0
17	3211	18	511810	354079	1.1	0.0	0.9	0.0	0.0	0.0	2.0
18	3211	20	510910	354704	4.1	0.0	13.5	0.0	0.0	0.0	17.6
(Total)		37			8.2	5.7	28.8	0.0	0.0	0.0	42.6
19	3313	2	512040	354011	0.0	0.0	0.9	0.0	0.0	0.0	0.9
20	3320	9	511320	354240	0.2	0.0	0.2	0.0	0.0	0.0	0.3
21	3313	18	511720	354034	0.0	0.0	1.5	0.0	0.0	0.0	1.5
(Total)		37			0.2	0.0	2.6	0.0	0.0	0.0	2.7
22	3410	18	511720	354074	0.3	29.8	0.0	0.0	0.0	0.0	30.0
(Total)		24			0.2	29.8	0.0	0.0	0.0	0.0	30.0
23	3522	4	513426	354322	0.7	0.0	0.0	0.0	0.0	0.0	0.7
24	3522	9	511210	354229	1.1	0.0	0.2	0.0	0.0	0.0	1.3
25	3521	9	511326	354304	0.9	0.0	0.0	0.0	0.0	0.0	0.9
26	3529	9	511854	354248	0.7	0.0	0.0	0.0	0.0	0.0	0.7
27	3523	9	511350	354236	0.2	0.0	0.0	0.0	0.0	0.0	0.2
28	3521	9	511454	354222	0.1	0.0	0.0	0.0	0.0	0.0	0.1
29	3522	9	512780	354503	0.0	4.9	0.2	0.0	0.0	0.0	5.1
30	3522	9	511720	354243	2.5	0.0	34.3	0.0	0.0	0.0	36.8
31	3522	9	510858	354410	3.0	0.0	1.3	0.0	0.0	0.0	4.2
32	3522	9	511844	354224	4.8	5.4	0.3	0.0	0.0	0.0	10.4
33	3529	18	511726	354000	0.0	0.0	0.2	0.0	0.0	0.0	0.2
34	3523	18	511404	354242	0.9	0.0	0.0	0.0	0.0	0.0	0.9
35	3522	18	511824	354020	0.1	0.0	9.0	0.0	0.0	0.0	9.1
36	3521	18	511914	354326	0.1	0.0	9.2	0.0	0.0	0.0	9.3
37	3522	18	511726	354324	0.3	0.0	0.0	0.0	0.0	0.0	0.3
38	3530	18	510910	354419	0.2	0.0	11.1	0.0	0.0	0.0	11.3
39	3523	18	511000	354218	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	512526	350411	0.0	37.9	22.6	0.0	0.0	0.0	60.5
(Total)	Crust Iron Refinery	30			13.4	106.0	79.4	0.0	0.0	0.0	198.8
41	3510	9	511844	354013	0.3	0.0	0.0	0.0	0.0	0.0	0.3
42	3520	9	511844	354013	14.2	1.1	1.0	0.0	0.0	0.0	16.3
43	3527	18	512006	354248	11.4	0.0	0.0	0.0	0.0	0.0	11.4
44	3520	18	512006	354248	18.6	34.0	0.0	0.0	0.0	0.0	52.6
45	3520	20	512526	350411	17.4	0.0	11.9	0.0	0.0	0.0	29.3
(Total)		30			53.9	35.1	12.9	0.0	0.0	0.0	101.9
46	3710	9	513024	354256	0.0	0.0	1.3	0.0	0.0	0.0	1.3
47	3710	9	510858	354424	0.0	0.0	4.5	0.0	0.0	0.0	4.5
48	3710	18	512050	354226	0.3	0.0	31.3	0.0	0.0	0.0	31.6
49	3710	18	511818	354202	0.2	0.0	0.0	0.0	0.0	0.0	0.2
50	3710	18	511824	354257	2.2	0.0	0.0	0.0	0.0	0.0	2.2
51	3710	18	511945	354256	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			2.7	0.0	37.1	0.0	0.0	0.0	39.8
52	3813	4	513424	354344	0.1	0.0	0.0	0.0	0.0	0.0	0.1
53	3813	4	510440	354400	0.0	0.0	2.2	0.0	0.0	0.0	2.2
54	3827	4	510458	354224	0.7	0.0	0.0	0.0	0.0	0.0	0.7
55	3819	2	511918	354211	0.5	0.0	0.8	0.0	0.0	0.0	1.3
56	3843	9	510310	354318	0.2	0.0	1.2	0.0	0.0	0.0	1.4
57	3851	9	511720	354040	0.1	0.0	0.3	0.0	0.0	0.0	0.4
58	3840	9	511102	354328	1.5	0.0	2.1	0.0	0.0	0.0	3.6
59	3826	9	510258	354245	1.0	0.0	0.8	0.0	0.0	0.0	1.8
60	3827	9	511500	354279	2.2	0.1	1.5	0.0	0.0	0.0	3.8
61	3843	9	511020	354326	4.4	0.0	5.4	0.0	0.0	0.0	9.8
62	3843	9	511232	354248	3.7	0.0	0.0	0.0	0.0	0.0	3.7
63	3827	14	512840	354131	10.1	0.0	0.0	0.0	0.0	0.0	10.1
64	3810	15	512820	354245	0.9	0.0	4.1	0.0	0.0	0.0	5.0
65	3839	15	512808	354178	1.8	0.0	40.7	0.0	0.0	0.0	42.5
66	3839	18	510518	354432	0.0	0.0	0.3	0.0	0.0	0.0	0.3
67	3829	18	511030	354013	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	3843	18	511786	354226	0.1	0.0	0.0	0.0	0.0	0.0	0.1
69	3839	18	511306	354213	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	511046	354226	0.2	11.8	0.0	0.0	0.0	0.0	12.0
71	3827	18	511524	354314	0.2	0.0	0.0	0.0	0.0	0.0	0.2
72	3843	18	511520	354448	1.5	0.0	1.1	0.0	0.0	0.0	2.6
73	3843	18	511050	354278	1.3	0.0	5.7	0.0	0.0	0.0	7.0
(Total)		38			28.6	17.0	68.1	0.0	0.0	0.0	113.7
(Grand Total)					143.8	115.8	287.2	0.0	2.3	1.3	549.2

Table 2.5 : SPM emission of big factories (DO-Nothing, 2010)

No	Name	District	Longitude (DMS)	Latitude (DMS)	Natural Gas (Ton/Year)	Heavy Oil (Ton/Year)	Gas Oil (Ton/Year)	Kerosene (Ton/Year)	Gasoline (Ton/Year)	LPG (Ton/Year)	Total emission (Ton/Year)
1	Infino Refinery	2008	512540	354240	130.0	1450.5	58.9	0.0	0.0	0.0	1639.4
2	Power Plant				185.1	599.9	408.2	0.0	0.0	0.0	1193.2
2.1	- Baisal	16	512240	353640	54.1	598.9	32.2	0.0	0.0	0.0	685.2
2.2	- Forouz	2	512110	354324	18.2	0.0	0.0	0.0	0.0	0.0	18.2
2.3	- Sipi	2008	512430	353120	112.8	0.0	375.2	0.0	0.0	0.0	488.0
(Total)					427.9	2049.4	966.1	0.0	0.0	0.0	2443.4

Table 3.0: Detailed waste fuel consumption (Common, 2009)
(Cont. from 2)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1 Gasoline	1.3	1.0	2.7	16.7	13.7	8.7	2.0	3.1	16.6	1.0	4.5	6.3	5.3	1.2	5.2	3.6	2.6	10.7	6.2	19.5	142.2
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	1.3	1.0	2.7	16.7	13.7	8.7	2.0	3.1	16.6	1.0	4.5	6.3	5.3	1.2	5.2	3.6	2.6	10.7	6.2	19.5	142.2
2 Kerosene	11.2	3.3	16.7	33.2	37.5	26.4	5.2	10.4	40.6	3.8	16.4	19.3	18.3	5.4	15.7	17.2	6.7	61.6	13.5	60.2	470.4
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	89.7	84.0	95.8	119.6	61.2	64.2	72.2	64.6	31.3	72.0	61.5	74.3	44.9	39.2	116.2	66.6	70.6	63.6	45.6	67.7	1,466.8
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	70.9	67.4	72.6	152.8	116.6	90.6	77.3	65.0	67.1	75.8	77.9	65.5	61.2	64.6	131.6	65.6	77.5	125.5	69.2	127.9	1,667.7
3 Gas Oil	51.2	16.4	63.2	109.7	225.9	134.3	29.7	49.7	246.0	17.2	65.5	64.1	60.6	23.9	65.6	64.0	39.5	364.7	65.1	361.2	2,340.2
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	392.3	56.0	37.8	81.6	64.1	45.7	50.4	67.3	36.1	49.5	44.8	65.4	30.9	61.0	60.6	47.3	48.8	44.6	31.8	46.6	1,007.1
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	61.1	74.8	120.9	264.5	280.2	180.0	80.1	107.3	286.0	66.9	110.6	147.5	126.7	84.8	175.8	143.0	89.3	429.5	116.9	540.2	3,368.8
4 Heavy Oil	21.2	19.0	32.6	88.6	161.8	77.6	27.9	36.4	141.5	13.2	33.7	60.8	50.0	16.2	145.9	141.1	28.0	491.7	223.2	665.0	2,404.8
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	6.3	8.3	6.1	20.8	6.2	20.0	19.1	13.0	8.2	14.3	24.1	22.5	8.9	16.1	28.3	14.7	14.7	16.6	10.6	13.4	344.6
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	27.4	27.4	40.7	109.7	190.0	67.7	49.1	49.4	153.9	27.5	62.7	133.3	68.9	32.2	179.0	163.5	43.7	616.3	234.1	678.0	3,677.6
5 LPG	1.7	0.9	4.0	16.7	13.6	7.5	2.2	3.1	18.4	0.9	3.8	5.5	7.1	1.1	5.6	3.9	3.1	22.6	9.2	19.4	146.5
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	22.6	31.8	21.2	46.7	30.7	25.9	27.9	32.2	19.6	27.8	24.2	31.4	17.2	34.1	44.7	26.3	27.2	24.6	17.6	26.0	667.6
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	24.3	32.7	25.2	67.4	44.5	32.5	30.8	35.3	34.0	28.5	27.8	36.9	24.4	35.2	50.3	30.2	30.2	50.0	22.8	45.4	707.0
6 Natural Gas	49.4	35.0	107.6	740.0	721.6	248.4	76.6	83.3	696.7	31.2	136.9	239.9	495.4	36.2	399.1	193.6	172.8	1,379.6	363.9	1,399.7	7,679.6
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	259.1	359.8	241.7	551.6	347.7	269.2	320.6	367.0	220.2	315.6	262.2	346.6	197.1	349.4	513.2	301.6	311.2	293.1	202.1	267.0	9,498.9
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	302.5	488.3	429.3	1,308.1	1,091.2	647.8	387.2	469.3	1,266.8	348.3	419.5	675.5	602.5	465.6	918.9	763.7	448.0	1,716.4	563.1	2,877.1	16,115.0
7 Solid Fuel	5.4	17.3	24.1	317.6	163.2	77.7	26.2	99.2	181.7	18.3	64.1	84.9	72.0	13.7	61.2	48.6	54.1	269.3	78.6	313.4	1,681.2
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	5.4	17.3	24.1	317.6	163.2	77.7	26.2	99.2	181.7	18.3	64.1	84.9	72.0	13.7	61.2	48.6	54.1	269.3	78.6	313.4	1,681.2
8 Total	138.4	95.1	351.0	1,453.0	1,267.7	684.6	169.8	244.3	1,543.6	65.6	323.7	505.6	959.9	97.8	628.4	448.5	513.0	2,635.3	761.9	3,036.1	16,919.2
Industrial Non-Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	344.6	540.0	344.7	788.5	521.6	444.7	486.1	654.1	339.5	476.0	426.8	626.1	269.1	509.7	781.1	493.8	477.7	432.3	307.9	460.7	9,492.2
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	623.0	708.1	713.7	2,357.0	1,689.3	1,132.8	656.9	768.7	2,049.9	596.1	767.0	1,133.6	665.0	716.5	1,520.3	1,411.6	786.7	3,449.7	1,099.6	5,132.2	27,902.6

Table 3.1: District wise SOx emission quantity (Common, 2006)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Chandigarh	2.0	1.0	4.1	26.0	21.2	10.4	4.5	26.6	4.9	12.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	220.6
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	2.0	1.0	4.1	26.0	21.2	10.4	4.5	26.6	4.9	12.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	220.6
2	Karnataka	40.2	12.0	60.2	118.4	134.3	95.1	18.5	37.6	146.8	13.8	59.9	99.4	58.6	18.9	59.4	24.2	22.7	44.7	216.2	116.2	116.2	116.2
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	215.0	202.6	203.0	400.7	293.2	231.2	206.9	304.6	194.9	221.4	207.4	207.4	191.6	321.1	416.5	246.5	254.9	229.1	164.5	243.6	243.6	243.6
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	255.3	314.6	291.3	599.1	427.5	326.2	278.5	342.1	331.7	273.0	269.4	326.8	220.4	340.7	474.9	268.3	279.1	451.8	213.0	469.5	469.5	469.5
3	Goa Or	770.1	759.5	1,169.6	2,409.1	3,117.9	1,404.6	412.6	698.1	3,459.9	241.7	971.9	1,143.0	1,349.0	3,364.4	1,700.7	1,195.7	594.6	5,128.9	1,199.5	5,998.9	5,998.9	5,998.9
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	560.9	767.7	530.9	1,149.1	761.2	692.7	709.3	809.4	492.7	693.2	891.1	434.6	852.4	1,333.7	955.4	649.5	608.6	4,647.7	649.5	4,647.7	4,647.7	4,647.7
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	1,260.9	1,487.7	1,700.8	4,002.8	3,889.1	2,451.5	1,177.0	1,498.0	4,174.0	941.3	1,444.9	2,074.1	1,623.4	1,163.9	2,477.0	1,488.9	1,241.3	5,606.2	1,488.9	5,606.2	5,606.2	
4	Madhya Or	1,179.2	1,099.2	1,776.5	4,719.9	6,953.3	4,170.7	1,933.7	1,440.7	7,510.9	702.6	1,262.1	3,429.0	2,464.4	6,648.9	7,249.2	7,462.5	1,932.6	26,108.0	11,862.3	49,970.3	49,970.3	49,970.3
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	354.9	443.1	431.0	1,106.7	936.2	1,095.9	940.3	644.2	449.6	756.7	1,240.6	3,650.1	475.6	852.1	1,367.9	781.5	779.6	873.7	873.7	716.5	716.5	716.5
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	1,463.1	1,452.3	2,199.5	5,827.7	10,068.4	5,164.6	2,344.0	2,989.9	8,172.1	1,441.3	3,333.7	7,079.1	3,330.0	5,111.0	9,601.2	19,268.6	2,317.6	27,412.0	19,268.6	73,756.7	73,756.7	
5	UP	4.4	2.4	10.3	42.6	35.3	19.1	5.6	7.9	47.0	2.3	9.2	14.0	16.2	2.9	14.4	10.9	8.0	57.7	13.2	40.5	40.5	40.5
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	97.7	81.2	54.3	116.7	78.4	63.8	71.2	62.3	60.1	70.6	61.8	40.2	44.0	87.1	114.2	67.2	60.4	62.8	44.0	66.3	66.3	66.3
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	97.1	83.6	64.5	116.5	113.8	65.9	76.7	62.7	60.7	71.0	61.8	40.2	44.0	87.1	114.2	67.2	60.4	62.8	44.0	66.3	66.3	66.3
6	Natural Gas	1.2	1.5	7.9	37.2	38.8	15.0	3.2	3.5	37.6	1.3	5.7	10.0	17.0	1.5	12.0	7.9	7.4	57.8	16.0	94.5	94.5	94.5
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	10.7	15.1	10.1	21.6	14.6	12.1	13.4	15.4	9.4	13.2	11.8	16.2	8.3	16.3	21.5	12.6	13.0	11.9	8.5	12.4	12.4	12.4
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	12.7	19.5	18.0	54.8	45.3	27.1	16.6	18.9	43.0	14.6	17.6	26.2	25.2	19.0	30.4	37.8	20.5	71.9	24.4	116.4	116.4	
7	Solid Fuel	133.8	472.2	984.3	7,659.6	4,052.0	1,916.7	647.0	1,492.6	4,483.1	451.1	1,543.9	2,197.1	1,778.1	3,922.6	1,512.6	1,209.2	3,205.6	7,204.2	1,492.6	7,477.2	7,477.2	
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	133.8	472.2	984.3	7,659.6	4,052.0	1,916.7	647.0	1,492.6	4,483.1	451.1	1,543.9	2,197.1	1,778.1	3,922.6	1,512.6	1,209.2	3,205.6	7,204.2	1,492.6	7,477.2	7,477.2	
8	Total	2,099.6	1,713.3	3,575.2	15,549.5	17,063.8	8,597.6	2,500.3	4,089.1	15,713.9	1,416.6	4,373.3	6,715.3	3,926.1	1,659.0	10,563.6	9,978.9	3,472.6	39,866.2	15,077.6	99,114.3	227,494.4	
	Industrial Non-Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Bldg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Household	1,179.3	1,629.7	1,227.4	2,624.1	1,581.6	2,033.7	2,014.0	1,469.9	1,228.0	1,707.4	2,205.9	5,105.0	1,242.2	2,134.1	3,065.8	1,772.3	1,603.7	1,804.1	1,240.3	1,693.4	1,693.4	
	Energy Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	3,209.6	3,344.9	4,802.5	18,444.6	18,687.7	10,641.5	4,544.3	5,994.5	17,343.9	3,216.6	6,643.3	11,820.3	7,050.4	3,694.1	14,138.0	22,804.3	5,276.2	41,346.2	16,318.0	69,032.4	208,034.6	

Table 3.2: District wise NOx emission quantity (Common, 2005)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Chandernagore	6.9	7.0	18.0	113.2	52.0	45.8	19.8	21.0	132.1	9.8	39.2	56.1	42.6	0.3	35.2	26.9	19.5	133.0	35.1	133.2	693.0	5.4
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	6.9	7.0	18.0	113.2	52.0	45.8	19.8	21.0	132.1	9.8	39.2	56.1	42.6	0.3	35.2	26.9	19.5	133.0	35.1	133.2	693.0	5.4
2	Kanniyakumari	75.8	22.6	113.4	224.9	262.6	178.7	34.9	70.6	275.9	26.0	111.0	130.4	110.3	38.6	106.0	116.2	45.4	418.7	61.5	407.9	2,648.9	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	154.2	217.1	144.2	209.0	209.6	165.6	166.4	218.5	132.6	185.9	168.6	191.6	116.1	730.4	300.2	178.8	162.9	164.3	117.9	174.9	3,737.4	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	200.0	239.7	288.6	433.9	472.2	344.3	221.3	289.1	468.6	211.9	284.6	322.0	226.9	207.7	408.3	200.1	228.3	268.6	200.4	269.3	6,549.3	0.0
3	Madurai	344.9	125.2	599.7	1,344.1	1,320.1	903.8	109.9	354.5	1,065.5	115.0	441.0	560.0	944.6	161.0	575.9	572.1	205.5	2,450.0	972.6	2,450.0	15,000.0	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	118.0	165.7	111.7	241.5	160.1	134.2	149.2	169.6	103.6	149.4	132.5	187.4	91.4	160.2	236.4	198.9	144.4	131.8	93.9	137.7	2,678.9	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	487.5	292.7	671.4	1,606.4	1,681.3	1,038.9	249.1	594.8	1,865.3	263.0	475.0	735.5	1,036.9	341.3	878.8	824.0	409.9	2,701.9	1,066.5	1,066.5	20,678.9	0.0
4	Nilgiris	192.0	339.9	203.6	637.9	1,305.6	557.3	163.0	254.4	1,015.9	95.1	241.7	436.7	248.8	119.2	1,047.6	1,013.4	208.0	3,520.6	1,002.1	1,002.1	10,350.6	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	18.4	24.3	23.7	60.6	23.9	58.4	52.7	37.6	26.9	41.7	70.3	211.5	28.1	46.8	76.8	47.9	42.5	46.0	31.6	39.1	1,005.0	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	171.0	368.6	247.0	700.0	1,330.5	615.6	215.7	292.0	1,042.8	136.7	312.0	648.2	276.9	166.0	1,124.6	1,013.4	208.0	3,520.6	1,002.1	1,002.1	10,350.6	0.0
5	Palani	3.7	2.0	6.6	34.6	26.5	19.0	4.7	9.9	39.3	2.0	7.7	11.7	15.2	2.4	17.0	8.4	8.7	48.2	11.0	11.0	312.6	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	33.9	47.7	31.9	68.6	48.1	37.5	41.8	48.3	29.4	41.4	36.3	47.1	25.9	51.1	87.1	36.4	40.8	36.6	26.4	26.4	836.3	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	37.6	49.7	40.5	104.3	75.6	56.4	46.4	54.9	66.7	43.4	44.0	58.8	41.0	53.6	79.1	47.6	47.5	81.0	37.4	37.4	1,159.0	0.0
6	Perambalur	138.0	105.0	562.6	2,306.5	2,197.4	1,073.4	229.5	249.8	2,892.0	60.4	407.2	718.0	1,214.2	308.5	929.0	569.0	432.6	1,141.4	1,141.4	1,141.4	23,680.3	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	533.5	749.5	503.5	1,069.9	730.2	602.8	697.7	764.4	467.9	697.2	587.9	805.2	410.6	811.2	1,099.1	978.0	648.2	549.6	420.9	420.9	9,166.3	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	671.5	854.5	1,066.5	2,376.4	2,927.6	1,676.2	927.2	1,014.2	3,361.9	754.4	994.9	1,523.8	1,624.8	1,007.3	2,276.1	1,547.0	1,197.8	1,141.0	1,562.3	1,562.3	31,846.6	0.0
7	South Arcot	56.0	177.4	248.6	3,200.1	1,674.3	796.7	269.7	807.4	1,693.7	187.2	627.7	812.3	739.6	140.2	628.2	590.9	564.7	3,028.9	606.7	3,217.1	20,322.9	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	56.0	177.4	248.6	3,200.1	1,674.3	796.7	269.7	807.4	1,693.7	187.2	627.7	812.3	739.6	140.2	628.2	590.9	564.7	3,028.9	606.7	3,217.1	20,322.9	0.0
8	Tamil Nadu	779.0	974.4	1,758.0	7,921.6	7,087.2	3,271.6	951.2	1,544.0	7,954.3	576.0	1,660.4	2,828.9	3,144.9	573.4	3,331.3	2,291.1	1,932.4	13,746.2	4,281.4	16,027.6	61,971.0	0.0
	Industrial/Nomadic Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Household	856.0	1,205.2	815.0	1,706.4	1,629.9	999.5	1,977.9	1,239.6	799.8	1,072.6	945.9	1,443.1	870.0	1,319.8	1,751.5	1,027.3	1,099.0	970.6	660.6	1,009.5	21,903.3	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	1,635.0	2,179.6	2,573.0	9,628.0	8,717.1	4,271.6	1,951.1	2,783.6	8,754.1	576.0	1,660.4	4,272.0	3,815.0	1,946.8	4,478.0	2,891.1	15,046.0	4,902.1	14,206.6	15,046.6	62,874.3	0.0

Table 3.3 : District wise CO emission quantity (Common, 2005)

Sl. No.	Category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Gasoline																						
101	Industrial Non-Big Unit	408.3	333.1	853.4	5,923.4	4,434.4	2,184.7	840.5	1,008.8	3,299.8	315.8	1,448.4	2,887.8	2,091.2	399.0	1,892.0	1,227.4	924.6	6,392.6	1,879.0	9,311.5	45,170.2	
102	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
103	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
104	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
105	(Sub-total)	408.3	333.1	853.4	5,923.4	4,434.4	2,184.7	840.5	1,008.8	3,299.8	315.8	1,448.4	2,887.8	2,091.2	399.0	1,892.0	1,227.4	924.6	6,392.6	1,879.0	9,311.5	45,170.2	
2	Kerosene																						
201	Industrial Non-Big Unit	7.0	2.1	10.3	29.8	22.4	18.6	3.2	0.5	23.8	2.4	19.3	37.1	19.2	3.4	9.1	10.6	4.2	38.8	8.5	37.8	204.3	
202	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
203	Commercial/Institutional	37.5	52.4	34.1	75.1	51.0	40.3	45.3	52.1	32.2	45.2	38.9	48.6	26.2	59.0	73.0	43.0	44.5	49.0	28.7	47.5	998.7	
204	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
205	(Sub-total)	44.5	54.5	44.4	104.9	73.4	58.9	48.5	52.7	56.0	47.6	58.2	85.7	45.4	62.4	82.1	53.6	48.7	77.8	37.2	85.3	1,173.0	
3	Gas Oil																						
301	Industrial Non-Big Unit	27.8	19.0	45.3	168.2	129.0	73.1	19.2	27.1	133.0	9.4	35.7	65.8	53.8	13.9	48.5	48.3	21.5	188.5	48.2	188.9	1,278.7	
302	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
303	Commercial/Institutional	28.0	38.2	23.7	51.3	34.0	28.7	21.7	39.0	22.0	31.1	28.1	39.8	19.4	36.3	50.8	29.7	30.2	28.0	19.9	29.2	592.5	
304	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
305	(Sub-total)	55.8	57.2	69.0	219.5	163.0	101.8	40.9	66.1	155.0	40.5	63.8	105.6	73.2	50.2	99.3	78.0	51.7	216.5	68.1	218.1	2,071.2	
4	Heavy Oil																						
401	Industrial Non-Big Unit	19.2	9.8	19.4	44.8	31.4	39.0	13.8	17.8	71.1	9.7	18.9	30.8	25.1	8.1	23.3	20.9	14.0	247.1	112.2	434.0	1,394.0	
402	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
403	Commercial/Institutional	4.0	5.2	3.1	12.1	8.1	12.8	11.4	8.1	8.8	9.0	18.1	45.5	5.6	10.1	16.5	9.2	9.2	10.3	6.8	6.8	216.3	
404	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
405	(Sub-total)	23.2	15.0	22.5	56.9	39.5	51.8	25.2	25.9	80.0	18.7	37.0	76.3	30.7	18.2	39.8	29.9	23.2	257.4	119.0	250.8	1,610.3	
5	LPG																						
501	Industrial Non-Big Unit	0.5	0.5	1.2	4.9	4.1	2.2	0.9	0.9	5.4	0.2	1.1	1.8	2.1	0.3	1.8	1.1	0.9	8.8	1.5	5.7	42.9	
502	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
503	Commercial/Institutional	8.5	12.0	8.0	17.2	11.0	6.4	10.5	12.1	7.4	10.4	9.1	11.8	6.5	12.9	18.9	9.0	19.2	9.3	6.8	9.8	210.1	
504	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
505	(Sub-total)	9.0	12.5	9.2	22.1	15.1	8.6	11.4	12.9	12.8	10.6	10.2	13.6	8.6	13.2	18.7	11.1	19.1	18.1	6.3	15.5	253.0	
6	Natural Gas																						
601	Industrial Non-Big Unit	13.6	10.9	95.0	278.9	214.5	102.0	22.5	24.4	283.4	9.1	38.8	70.9	118.8	19.8	90.8	84.4	52.1	484.3	111.7	609.4	2,308.2	
602	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
603	Commercial/Institutional	65.8	120.9	81.0	174.2	118.8	88.9	102.4	172.8	73.1	193.2	94.5	129.5	98.0	139.4	171.9	101.0	104.2	94.8	87.7	99.5	2,146.1	
604	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
605	(Sub-total)	79.4	131.8	176.0	453.1	333.3	190.9	124.9	177.2	256.5	102.3	232.0	200.4	216.8	159.2	262.7	185.4	156.3	179.1	196.7	209.2	4,454.3	
7	Solid Fuel																						
701	Industrial Non-Big Unit	36.0	120.1	171.2	2,282.1	1,181.6	562.8	169.4	471.4	1,289.2	130.0	498.3	833.1	512.8	97.3	459.9	341.2	384.9	2,101.7	589.7	2,232.2	14,101.8	
702	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
703	Commercial/Institutional	199.8	223.7	153.8	331.4	219.1	187.8	208.2	232.3	142.8	203.4	185.0	273.3	178.8	247.2	329.9	192.8	198.8	182.4	199.2	199.7	1,613.9	
704	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
705	(Sub-total)	235.8	343.8	325.0	613.5	400.7	350.6	377.6	473.7	1,432.0	333.4	683.3	1,106.4	691.6	244.5	789.8	534.0	583.7	1,784.1	788.9	408.9	6,326.0	
8	Total	887.3	1,315.8	2,002.0	14,101.8	10,000.0	5,000.0	2,000.0	3,000.0	10,000.0	1,000.0	4,000.0	7,000.0	5,000.0	1,000.0	4,000.0	2,000.0	1,000.0	10,000.0	2,000.0	10,000.0	70,000.0	

Table 3.A : District wise HC emission quantity (Common, 2005)

District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	15.7	12.8	33.2	208.7	170.9	84.1	36.7	200.5	12.2	55.7	102.4	78.9	15.4	95.1	47.2	38.0	205.0	64.6	245.6	3,724.6	
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	15.7	12.8	33.2	208.7	170.9	84.1	36.7	200.5	12.2	55.7	102.4	78.9	15.4	95.1	47.2	38.0	205.0	64.6	245.6	3,724.6	
2	4.2	1.3	0.0	12.5	14.1	9.0	1.9	15.4	1.4	6.2	7.3	6.1	2.1	5.0	6.5	2.6	23.3	5.1	22.7	158.6	
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	4.2	1.3	0.0	12.5	14.1	9.0	1.9	15.4	1.4	6.2	7.3	6.1	2.1	5.0	6.5	2.6	23.3	5.1	22.7	158.6	
3	19.2	7.0	31.3	75.3	85.1	50.6	11.2	18.7	6.5	24.7	37.7	37.2	9.0	32.3	32.0	14.9	197.4	37.1	199.3	865.2	
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	19.2	7.0	31.3	75.3	85.1	50.6	11.2	18.7	6.5	24.7	37.7	37.2	9.0	32.3	32.0	14.9	197.4	37.1	199.3	865.2	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.1	0.1	0.3	1.4	1.2	0.8	0.2	0.3	0.1	0.3	0.5	0.8	0.1	0.5	0.2	0.2	1.9	0.4	1.6	32.3	
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	0.1	0.1	0.3	1.4	1.2	0.8	0.2	0.3	0.1	0.3	0.5	0.8	0.1	0.5	0.2	0.2	1.9	0.4	1.6	32.3	
7	1.5	1.5	7.9	30.2	30.6	19.0	3.2	3.5	37.6	3.3	5.7	10.0	17.0	1.5	17.9	7.6	7.4	18.0	18.0	54.5	308.7
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	1.5	1.5	7.9	30.2	30.6	19.0	3.2	3.5	37.6	3.3	5.7	10.0	17.0	1.5	17.9	7.6	7.4	18.0	18.0	54.5	308.7
8	49.2	29.7	91.4	384.0	370.1	199.5	52.9	78.5	407.1	29.4	109.3	179.5	158.7	34.1	174.7	117.0	74.0	95.7	202.3	786.7	5,176.1
Industrial Nonhazard Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	49.2	29.7	91.4	384.0	370.1	199.5	52.9	78.5	407.1	29.4	109.3	179.5	158.7	34.1	174.7	117.0	74.0	95.7	202.3	786.7	5,176.1
Total	119.6	178.4	157.8	508.9	465.6	298.6	179.5	481.7	113.5	183.8	265.2	213.0	142.5	320.3	320.3	515.7	741.9	268.0	1,031.6	7,349.7	

Sl. No.	Type	Year (in lakhs of tonnes)																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Genline	2.2	7.8	4.6	28.7	23.5	11.9	5.0	5.2	28.4	1.7	7.7	14.2	10.9	2.1	9.0	9.5	4.9	33.8	8.9	23.5	244.2
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	2.2	7.8	4.6	28.7	23.5	11.9	5.0	5.2	28.4	1.7	7.7	14.2	10.9	2.1	9.0	9.5	4.9	33.8	8.9	23.5	244.2
2	Municipal	30.0	44.9	65.6	100.0	79.7	13.8	13.8	27.9	10.2	43.9	51.6	43.8	15.9	42.0	49.9	18.0	188.7	34.2	161.3	1,122.8	
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	55.0	77.4	93.4	139.2	74.8	68.8	68.8	77.9	47.3	68.3	64.4	11.4	82.1	107.1	63.1	66.2	59.8	42.0	62.4	1,332.8	0.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	85.0	84.3	98.3	199.0	174.7	179.9	80.3	105.9	195.5	78.8	100.6	100.0	65.0	68.7	148.0	68.2	72.8	59.8	72.4	2,460.4	0.0
3	Dom. Oil	139.2	90.2	209.4	543.0	615.8	396.5	60.8	136.2	696.2	49.8	178.3	228.9	266.5	65.1	232.8	231.6	197.4	892.5	231.8	884.4	6,389.5
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	91.8	120.0	96.9	185.0	124.0	109.2	118.1	132.0	68.6	113.9	153.9	71.2	140.4	165.8	109.8	112.4	152.0	73.1	107.2	2,319.2	0.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	231.2	180.1	315.3	748.0	739.8	470.7	187.0	268.0	763.7	161.4	293.1	378.8	338.0	206.5	444.6	346.6	219.8	1,142.1	304.7	1,457.7	9,709.4
4	Naphtha Oil	54.9	63.3	91.3	249.2	318.1	212.7	23.8	98.4	388.9	37.1	84.4	170.6	160.3	45.4	499.2	388.3	81.3	1,379.4	838.3	2,459.7	7,999.6
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	16.8	24.6	24.1	62.0	24.4	59.6	53.8	34.5	27.4	43.5	71.7	215.9	29.8	47.7	28.3	49.5	48.9	32.2	40.1	1,024.4	0.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	78.4	78.1	115.5	311.2	334.4	277.3	129.6	137.9	416.3	78.6	179.0	388.2	168.9	93.1	508.4	810.4	124.9	1,451.2	858.5	3,675.4	10,284.4
5	LPG	0.8	0.3	1.2	5.8	4.8	2.5	0.7	1.0	6.2	0.2	1.2	1.8	2.4	0.4	1.9	1.3	1.1	7.9	1.2	6.5	49.3
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	7.6	10.6	7.1	15.3	10.3	6.4	9.3	10.8	6.9	9.2	9.1	19.3	5.8	11.4	15.0	8.0	9.1	8.2	5.9	8.7	108.8
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	8.4	11.0	8.3	20.9	14.9	10.9	10.1	11.8	12.7	9.4	9.3	12.4	8.2	11.8	16.9	10.1	10.2	18.7	7.6	15.2	206.6
6	Household Gas	11.7	8.4	47.2	109.0	163.9	99.0	19.2	20.8	228.8	7.4	24.1	93.0	101.8	9.1	72.7	48.8	44.7	349.8	98.7	350.9	1,776.5
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	74.1	108.5	79.8	182.8	101.8	84.8	94.0	107.6	98.2	82.8	113.3	97.8	114.1	150.4	86.4	91.2	83.0	99.2	99.2	1,477.8	0.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	85.7	117.2	118.0	291.8	205.7	174.6	113.2	128.4	197.0	100.7	117.2	179.3	199.6	130.6	251.3	208.3	195.9	443.1	199.0	727.7	1,477.8
7	Solid Fuel	19.8	53.6	74.5	984.7	505.7	240.8	91.1	183.5	852.0	99.6	198.6	275.6	223.1	42.3	168.7	151.3	187.8	814.9	243.7	971.7	6,138.4
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	18.0	53.6	74.5	984.7	505.7	240.8	91.1	183.5	852.0	99.6	198.6	275.6	223.1	42.3	168.7	151.3	187.8	814.9	243.7	971.7	6,138.4
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	18.0	53.6	74.5	984.7	505.7	240.8	91.1	183.5	852.0	99.6	198.6	275.6	223.1	42.3	168.7	151.3	187.8	814.9	243.7	971.7	6,138.4
8	Other	209.1	178.9	480.2	2,089.0	1,952.3	968.7	278.5	473.3	1,988.8	199.6	566.4	682.6	799.0	179.0	658.4	878.9	424.8	3,440.4	1,244.1	4,684.5	23,489.9
	Industrial Naphtha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Bag Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	246.2	247.3	246.9	329.3	353.8	317.1	338.7	388.8	272.8	324.5	322.4	553.7	202.7	398.8	538.4	312.8	321.6	301.3	212.3	306.4	6,241.0
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	246.2	247.3	246.9	329.3	353.8	317.1	338.7	388.8	272.8	324.5	322.4	553.7	202.7	398.8	538.4	312.8	321.6	301.3	212.3	306.4	6,241.0
9	Total	508.3	543.0	730.7	2,635.0	2,779.2	1,315.8	416.2	840.9	2,315.8	448.1	695.5	1,350.5	981.6	457.2	1,907.5	1,768.7	746.4	4,208.1	1,499.9	7,099.3	37,074.6

Table 3.6 : District wise TOTAL emission quantity (Common, 2005)

Sl. No.	District	Common																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Chennai	456.0	356.3	523.4	5,769.9	4,742.3	2,339.4	1,026.8	1,070.7	5,726.4	331.9	1,446.9	2,497.7	2,497.7	1,496.3	1,312.7	899.5	6,656.4	1,792.9	0.0	0.0	49,222.3
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	456.0	356.3	523.4	5,769.9	4,742.3	2,339.4	1,026.8	1,070.7	5,726.4	331.9	1,446.9	2,497.7	2,497.7	1,496.3	1,312.7	899.5	6,656.4	1,792.9	0.0	49,222.3	
2	Madurai	157.3	46.7	725.4	499.0	574.4	371.1	72.4	145.9	572.9	54.0	200.4	270.7	229.9	79.5	233.2	241.3	899.3	190.0	0.0	5,914.4	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	469.3	466.3	457.4	469.2	465.0	476.0	493.4	493.0	470.7	499.9	503.8	498.4	498.2	479.7	492.3	490.9	498.1	494.3	474.0	11,494.9	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	626.6	533.0	1,182.8	968.2	1,044.4	867.1	865.8	838.9	863.7	843.7	704.2	769.1	728.1	679.2	692.5	691.3	698.4	664.3	478.0	17,770.1	
3	Madurai	1,251.1	450.6	2,032.5	1,499.6	5,200.0	3,261.6	729.9	1,214.8	9,013.5	419.9	1,901.2	2,059.6	2,413.3	564.6	2,091.4	2,077.5	991.9	8,913.5	2,079.4	37,495.9	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	467.4	1,176.9	729.6	1,093.9	919.4	1,019.7	1,159.7	1,159.7	709.2	895.6	901.9	1,276.8	921.8	1,276.7	1,673.9	931.9	992.1	992.1	992.1	20,203.0	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	2,053.5	1,647.5	2,762.1	2,593.5	6,120.0	4,280.7	1,740.5	2,374.4	2,107.6	1,421.6	2,903.1	3,330.3	3,035.1	1,811.2	3,447.2	3,211.5	1,044.1	10,229.5	2,718.5	67,641.0	
4	Madurai	1,339.1	1,215.7	2,082.2	5,981.1	11,670.8	4,984.0	1,721.1	2,269.9	9,046.1	349.6	2,152.6	2,699.6	3,197.7	1,054.5	9,300.4	6,079.9	1,952.5	31,467.5	14,278.0	55,731.2	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	377.0	498.9	485.3	529.9	492.0	1,197.0	1,093.2	774.9	951.9	664.2	1,434.8	958.4	958.4	958.4	1,573.9	979.9	979.9	979.9	979.9	20,598.1	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	1,716.1	1,714.6	2,567.5	6,511.0	12,162.8	6,181.0	2,812.2	3,049.9	9,998.0	1,700.6	3,600.0	4,158.6	4,158.6	1,954.5	11,335.5	7,059.9	2,932.4	34,745.0	14,278.0	55,023.2	
5	Madurai	92	51	21.7	90.1	74.7	40.1	11.8	16.6	96.4	4.9	19.5	20.5	36.5	6.1	30.4	21.2	17.0	172.0	22.9	700.8	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	110.6	199.5	100.9	222.6	150.2	122.2	136.3	197.6	96.0	194.9	116.3	152.7	94.3	199.9	216.7	176.6	132.0	86.0	179.1	2,172.3	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	110.6	199.5	100.9	222.6	150.2	122.2	136.3	197.6	96.0	194.9	116.3	152.7	94.3	199.9	216.7	176.6	132.0	86.0	179.1	2,172.3	
6	Madurai	169.1	372.0	640.5	2,629.4	2,629.1	1,786.6	277.2	392.0	3,293.5	112.9	492.5	665.6	1,498.9	131.3	1,370.1	972.6	944.7	4,096.5	1,990.7	24,599.9	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	737.2	1,035.7	695.6	1,501.6	1,020.6	857.2	672.6	1,056.3	945.4	47.7	517.1	517.1	1,117.4	597.4	1,171.0	1,477.3	667.8	667.8	667.8	16,452.8	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	906.3	1,917.7	1,375.1	3,131.0	2,041.2	1,639.8	1,449.8	2,152.3	2,238.9	142.6	564.6	1,034.7	2,616.3	728.3	2,838.1	2,649.9	1,674.6	4,764.3	1,668.6	43,052.8	
7	Madurai	244.7	781.2	1,068.9	14,357.0	2,373.8	3,569.9	1,183.2	2,874.8	8,207.6	429.0	2,498.4	4,016.1	3,253.7	617.3	2,768.6	2,794.0	2,453.1	13,339.7	3,652.7	46,500.9	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	244.7	781.2	1,068.9	14,357.0	2,373.8	3,569.9	1,183.2	2,874.8	8,207.6	429.0	2,498.4	4,016.1	3,253.7	617.3	2,768.6	2,794.0	2,453.1	13,339.7	3,652.7	46,500.9	
8	Madurai	3,079.1	2,469.2	2,992.7	34,101.0	34,518.3	15,801.1	9,003.9	7,897.0	32,656.5	2,901.2	8,941.9	14,900.6	12,294.5	2,877.2	17,368.6	15,556.1	7,014.6	66,524.6	23,306.3	60,829.2	
	Industrial Non-hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Hg Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	2,518.6	3,508.5	2,492.0	5,997.8	3,394.9	3,496.3	3,749.3	3,635.5	2,520.0	3,452.9	2,777.9	7,464.6	2,172.4	4,204.6	3,644.1	3,269.2	3,466.9	3,336.5	2,391.1	5,481.5	
	Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	5,597.7	6,977.7	5,484.7	34,101.0	34,518.3	15,801.1	9,003.9	7,897.0	32,656.5	2,901.2	8,941.9	14,900.6	12,294.5	2,877.2	17,368.6	15,556.1	7,014.6	66,524.6	23,306.3	60,829.2	
9	Madurai	6,147.7	7,249.0	9,644.7	36,704.3	39,920.9	19,309.4	6,750.2	11,538.8	36,754.0	6,095.5	19,048.1	21,448.3	14,971.6	2,187.6	24,270.4	24,720.4	10,453.1	75,013.4	14,024.0	149,903.8	

Table 4.0 : District wise TOTAL emission quantity by combustion & evaporation (Common, 2005)

District	(ton/year)																				Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1																					
Combustion	3,799.9	3,248.5	4,892.5	18,494.6	19,897.7	10,041.5	3,544.3	5,898.5	17,349.9	2,219.9	8,843.3	11,870.3	2,950.4	3,884.1	14,139.9	22,804.3	5,278.2	41,306.2	19,219.0	89,832.4	
SO _x	1,697.6	2,459.9	2,557.6	9,254.5	9,232.0	4,971.1	2,049.0	2,784.5	8,978.1	1,804.5	2,923.0	4,272.0	3,815.0	1,660.9	5,478.6	8,499.2	2,891.4	19,098.9	4,992.1	34,366.6	
NO _x	697.3	758.3	1,315.9	8,427.3	6,271.2	3,191.4	1,390.3	1,232.4	7,897.5	679.6	2,205.9	3,254.3	2,899.6	766.1	2,715.1	2,532.2	1,611.6	9,892.1	2,048.6	19,816.9	
CO	119.8	176.4	157.8	599.6	458.9	289.9	151.4	179.5	491.7	133.5	184.8	265.2	213.9	142.5	320.3	319.9	127.7	741.9	208.0	1,901.6	
HC	588.3	543.8	730.7	2,925.0	2,279.3	1,315.6	619.2	840.9	2,319.8	469.1	895.5	1,308.5	892.6	592.2	1,597.9	1,799.7	748.4	4,229.1	1,459.9	2,699.3	
SPM	6,147.7	7,249.0	9,968.9	39,784.3	35,679.9	19,389.4	6,750.2	11,628.6	34,729.0	6,068.5	13,048.1	21,488.3	14,971.6	7,187.8	24,220.4	36,738.4	10,483.4	71,014.1	29,433.4	143,629.8	
2																					
Evaporation/Agitation																					
SO _x															410					410	
NO _x																				116	
CO																				12	
HC	647	445	537	697	1,143	1,316	1,074	296	850	324	1,073	3,454	496	560	1,155	282	288	1,097	216	15,795	
SPM	647	445	537	697	1,143	1,316	1,074	306	850	574	1,073	3,454	496	560	656	237	288	1,097	216	15,904	
3																					
Total Emission	3,210	3,348	4,803	18,495	19,600	10,042	4,544	5,897	17,344	2,219	8,843	11,870	2,950	3,884	13,859	22,804	5,278	41,306	19,219	89,837	
SO _x	1,697.6	2,459.9	2,557.6	9,254.5	9,232.0	4,971.1	2,049.0	2,784.5	8,978.1	1,804.5	2,923.0	4,272.0	3,815.0	1,660.9	5,478.6	8,499.2	2,891.4	19,098.9	4,992.1	34,404.4	
NO _x	697.3	758.3	1,315.9	8,427.3	6,271.2	3,181.4	1,390.3	1,232.4	7,897.5	679.6	2,205.9	3,254.3	2,899.6	766.1	2,715.1	2,532.2	1,611.6	9,892.1	2,048.6	19,933.5	
CO	796.2	871.2	715.0	1,498.1	1,090.0	1,890.1	1,225.5	577.1	1,341.8	697.6	1,299.9	1,739.1	1,704.5	772.4	1,476.0	1,418	429.8	1,788.2	478.7	17,669.2	
HC	588.3	543.8	730.7	2,925.0	2,279.3	1,315.6	619.2	840.9	2,319.8	469.1	895.5	1,308.5	892.6	592.2	1,598.5	1,799.7	748.4	4,229.1	1,459.9	2,699.3	
SPM	6,147.7	7,249.0	9,968.9	39,784.3	35,679.9	19,389.4	6,750.2	11,628.6	34,729.0	6,068.5	13,048.1	21,488.3	14,971.6	7,187.8	24,220.4	36,738.4	10,483.4	71,014.1	29,433.4	143,629.8	
(Total)	6,789.4	7,893.8	10,121.9	40,891.5	37,064.3	20,717.8	6,192	11,928.4	37,585.2	6,899.4	14,120.9	24,942.2	15,467.2	7,797.6	24,876.0	36,970.3	10,751.5	72,071.0	29,861.1	159,530.5	

Table 2-1: Fuel consumption of big factories (>100 personnel) (Common, 2005)

No.	Industrial Code	District	Location		Fuel Consumption by Factory						Total Fuel Consumption (10 ³ liters)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ liters)	Heavy Oil (10 ³ liters)	Gas Oil (10 ³ liters)	Kerosene (10 ³ liters)	Gasoline (10 ³ liters)	LPG (10 ³ liters)	
1	3129	4	512740	354531	1,798,437	0	1,054,043	0	0	0	2,7
2	3130	4	512954	354435	423,575	0	1,824,587	0	0	61,845	2,1
3	3112	9	511840	354045	12,908,293	0	0	0	0	0	12,6
4	3130	9	511908	354329	8,459,243	0	2,868,065	0	0	0	8,9
5	3130	10	512148	354200	1,271,800	0	71,702	0	0	0	1,3
6	3119	10	512224	354200	50,464	0	215,105	0	0	57,040	0,3
7	3140	11	512310	354029	1,314,020	5,087,871	243,786	0	12,905	0	8,4
8	3115	18	512210	353248	43,525,810	0	2,151,049	0	0	0	44,0
9	3129	18	512020	354000	3,358	0	14,340	0	0	0	0,0
10	3130	18	511704	354524	1,211,811	0	5,102,517	0	0	0	5,9
11	3119	18	511504	354037	288,881	0	0	0	0	0	0,3
12	3112	18	511510	354020	21,070,858	0	2,063,007	0	0	0	24,5
(Total)	31		(10 ³ liters)		87,254,009	5,087,871	15,650,200	0	12,905	118,885	109,8
13	3245	4	513300	354354	58,990	0	0	0	0	0	0,1
14	3211	8	511608	354974	413,480	1,178,195	1,864,584	0	0	0	3,8
15	3240	9	511454	354245	7,745,997	0	294,194	0	0	0	7,8
16	3211	9	510956	354347	1,144,521	0	1,272,548	0	0	0	1,3
17	3211	18	511818	354859	3,247,885	168,456	20,148	0	0	64,883	3,6
18	3111	20	512510	353764	12,437,091	0	5,032,218	0	0	0	15,0
(Total)	32		(10 ³ liters)		25,487,703	1,347,651	8,447,870	0	0	64,883	32,3
19	3313	2	512340	354311	45,544	0	189,318	0	0	0	0,2
20	3320	9	511320	354340	487,668	0	40,797	0	0	0	0,5
21	3313	18	511720	354934	79,720	0	339,878	0	0	0	0,4
(Total)	33		(10 ³ liters)		614,001	0	578,093	0	0	0	1,1
22	3419	10	511750	354074	1,828,300	5,718,858	0	0	0	0	7,3
(Total)	34		(10 ³ liters)		1,828,300	5,718,858	0	0	0	0	7,3
23	3522	4	513436	354323	1,754,272	0	0	0	0	0	1,7
24	3522	9	511210	354269	2,754,188	0	38,810	0	0	0	2,7
25	3521	9	511326	354304	2,172,997	0	0	0	0	0	2,1
26	3569	9	511654	354248	1,632,785	0	0	0	0	0	1,6
27	3522	9	511350	354208	621,439	0	2,483	0	0	0	0,6
28	3521	9	511454	354222	257,788	0	0	0	0	0	0,3
29	3552	9	510740	354406	230,049	800,247	31,043	0	0	0	1,1
30	3523	9	511720	354045	7,871,741	0	8,805,827	0	0	0	14,0
31	3522	9	510858	354410	7,568,620	0	248,247	0	0	0	7,8
32	3551	9	511044	354224	11,902,821	993,370	67,052	0	0	0	12,7
33	3526	18	511726	354020	133,216	0	44,702	0	0	0	0,2
34	3523	18	511454	354242	2,735,083	0	0	0	0	0	2,7
35	3522	18	511824	354020	349,181	0	3,173	0	0	0	0,3
36	3581	18	511914	354330	227,368	0	32,805	0	0	0	0,3
37	3522	18	511726	354024	721,783	0	0	0	0	0	0,7
38	3530	18	510910	354418	1,078,045	0	2,204,040	0	0	0	3,1
39	3523	18	511930	354218	0	0	0	0	0	0	0,0
40	3530	20	512520	352411	3,458,521	17,825,221	4,435,068	0	0	82,066	28,6
(Total)	35		(10 ³ liters)		48,027,517	18,658,833	13,080,244	0	0	82,066	78,0
41	3610	9	511811	354013	1,191,727	0	2,068	0	0	0	1,1
42	3620	9	511811	354013	49,195,858	228,844	212,739	0	0	0	39,8
43	3622	15	512018	354018	52,181,149	0	0	0	0	0	31,5
44	3622	15	512008	354048	57,158,975	6,822,259	0	0	0	0	62,7
45	3620	20	512520	352328	49,712,318	0	2,582,881	0	0	0	51,1
(Total)	36		(10 ³ liters)		182,278,838	7,178,002	2,777,705	0	0	0	182,7
46	3710	9	512024	354288	85,487	0	270,520	0	0	0	0,3
47	3710	9	510858	354424	228,547	0	872,881	0	0	0	1,1
48	3710	18	512059	352858	2,855,817	0	2,783,758	0	0	0	9,0
49	3710	18	511918	352822	427,634	0	0	0	0	0	0,4
50	3710	18	511824	354027	8,245,951	0	135,275	0	0	0	8,2
51	3710	19	511848	353656	0	0	0	0	0	0	0,0
(Total)	37		(10 ³ liters)		8,821,268	0	8,143,565	0	0	0	17,1
52	3813	4	513424	354344	258,920	0	0	0	0	0	0,3
53	3819	4	513440	354400	120,077	0	511,832	0	0	0	0,6
54	3827	4	513456	354224	2,180,251	0	0	0	0	0	2,1
55	3816	5	511918	354211	1,081,010	0	174,420	0	0	0	1,4
56	3843	9	511910	354314	607,830	0	267,444	0	0	0	0,9
57	3851	9	511720	354040	308,214	0	78,489	0	0	0	0,3
58	3843	9	511918	354328	4,831,850	0	720,750	8,814	0	0	5,7
59	3828	9	511258	354245	2,971,558	0	174,420	0	0	0	3,1
60	3827	9	511800	354225	8,829,069	28,183	348,840	0	0	0	8,9
61	3843	9	511920	354306	13,474,053	0	1,023,264	0	920,090	0	14,9
62	3843	9	511232	354248	10,988,455	0	0	0	0	0	10,8
63	3827	14	512840	354101	29,842,185	0	0	0	0	0	29,2
64	3819	15	512820	353845	225,144	0	920,310	0	0	0	1,1
65	3839	15	512808	354702	8,841,207	0	8,447,754	0	0	0	15,5
66	3839	18	510918	354402	33,991	0	71,163	0	0	0	0,1
67	3829	18	511830	354013	28,041	0	119,478	0	0	4,180,356	2,9
68	3843	18	511748	353658	306,781	0	0	0	0	0	0,3
69	3836	18	511308	354213	130,815	0	0	0	0	0	0,1
70	3819	18	511948	354206	1,105,476	2,529,061	0	0	0	0	3,5
71	3827	18	511852	354014	718,228	0	1,047	0	0	0	0,7
72	3843	18	510900	354458	4,421,905	0	281,630	0	0	0	4,4
73	3843	18	511858	353726	4,257,688	0	1,313,689	0	0	0	5,0
(Total)	38		(10 ³ liters)		81,843,172	2,555,254	15,489,512	8,814	920,090	4,180,356	110,3
(Grand Total)			(10 ³ liters)		448,035,818	41,545,368	83,058,368	8,814	943,803	4,430,215	542,1

No.	Name	District	Location		Fuel Consumption by Factory						
			Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ liters)	Heavy Oil (10 ³ liters)	Gas Oil (10 ³ liters)	Kerosene (10 ³ liters)	Gasoline (10 ³ liters)	LPG (10 ³ liters)	
1	Tehran Refinery	2008	512549	353240	811,437,258	384,638,708	17,873,744	0	0	0	997,9
2	Power Plant	0			0	0	0	0	0	0	0,0
2.1	- Resal	18	512540	353540	259,100,315	165,831,778	9,407,023	0	0	0	423,3
2.2	- Forzad	2	512510	354324	72,821,549	0	155,687	0	0	0	71,5
2.3	- Ray	2008	512420	352120	472,434,226	0	118,015,754	0	0	0	574,7
(Total)					1,420,813,558	358,630,483	143,532,188	0	0	0	2,087,3

Table 2.1: SOx emission of big factories (Comnort, 2005)

No	Industry Code	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3129	4	512740	354231	0.1	0.0	13.8	0.0	0.0	0.0	13.9
2	3130	4	512654	354473	0.0	0.0	23.3	0.0	0.0	0.0	23.3
3	3112	9	517840	354043	0.5	0.0	0.0	0.0	0.0	0.0	0.5
4	3130	9	517856	354078	0.5	0.0	37.1	0.0	0.0	0.0	37.6
5	3130	10	517248	354200	0.1	0.0	0.9	0.0	0.0	0.0	1.0
6	3119	10	512224	354200	0.0	0.0	2.8	0.0	0.0	0.0	2.8
7	3145	11	512340	354078	0.1	261.0	3.2	0.0	0.0	0.0	264.3
8	3113	18	512540	353743	1.1	0.0	27.8	0.0	0.0	0.0	28.9
9	3129	18	512920	354020	0.0	0.0	0.2	0.0	0.0	0.0	0.2
10	3130	18	517734	354324	0.0	0.0	66.8	0.0	0.0	0.0	66.8
11	3119	18	517856	354037	0.0	0.0	6.0	0.0	0.0	0.0	6.0
12	3112	18	517810	354228	0.0	0.0	26.7	0.0	0.0	0.0	26.7
(Total)		31			3.1	261.0	207.5	0.0	0.0	0.0	497.5
13	3160	4	513340	354354	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	8	517808	354024	0.0	60.7	21.8	0.0	0.0	0.0	82.5
15	3240	8	517454	354343	0.3	0.0	3.3	0.0	0.0	0.0	3.6
16	3211	8	516858	354347	0.0	0.0	16.5	0.0	0.0	0.0	16.5
17	3211	18	517818	354259	0.1	8.7	2.6	0.0	0.0	0.0	11.5
18	3211	20	512610	353764	0.5	0.0	38.2	0.0	0.0	0.0	38.7
(Total)		31			1.0	69.4	82.4	0.0	0.0	0.0	152.8
19	3313	2	512340	354211	0.0	0.0	2.6	0.0	0.0	0.0	2.6
20	3320	8	517370	354343	0.0	0.0	0.6	0.0	0.0	0.0	0.6
21	3313	18	517720	354224	0.0	0.0	4.4	0.0	0.0	0.0	4.4
(Total)		33			0.0	0.0	7.5	0.0	0.0	0.0	7.5
22	3418	18	517720	354224	0.1	24.4	0.0	0.0	0.0	0.0	24.5
(Total)		34			0.1	24.4	0.0	0.0	0.0	0.0	24.5
23	3522	4	513420	354323	0.1	0.0	0.0	0.0	0.0	0.0	0.1
24	3522	9	513219	354259	0.1	0.0	0.5	0.0	0.0	0.0	0.6
25	3521	9	517328	354304	0.1	0.0	0.0	0.0	0.0	0.0	0.1
26	3559	9	517854	354248	0.1	0.0	0.0	0.0	0.0	0.0	0.1
27	3522	9	513350	354258	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3531	9	517454	354222	0.0	0.0	5.0	0.0	0.0	0.0	5.0
29	3552	9	510240	354405	0.0	48.4	0.4	0.0	0.0	0.0	48.8
30	3553	9	517720	354045	0.3	0.0	85.1	0.0	0.0	0.0	85.4
31	3532	9	516458	354430	0.3	0.0	3.2	0.0	0.0	0.0	3.5
32	3551	9	517844	354224	0.5	51.2	0.8	0.0	0.0	0.0	52.5
33	3528	18	517720	354220	0.0	0.0	0.6	0.0	0.0	0.0	0.6
34	3523	18	517454	354242	0.1	0.0	0.0	0.0	0.0	0.0	0.1
35	3522	18	517824	354020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	3541	18	517014	354320	0.0	0.0	6.4	0.0	0.0	0.0	6.4
37	3522	18	517720	354224	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	3530	18	516610	354418	0.0	0.0	28.5	0.0	0.0	0.0	28.5
39	3513	18	517030	354216	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	512320	353411	0.2	918.9	58.0	0.0	0.0	0.0	977.1
(Total)	Qaida Fabran Railway				1.9	1014.3	180.8	0.0	0.0	0.0	1197.0
41	3810	8	517844	354013	0.5	0.0	0.0	0.0	0.0	0.0	0.5
42	3820	18	517844	354013	1.8	11.7	2.6	0.0	0.0	0.0	16.1
43	3882	18	512520	353328	1.3	0.0	0.0	0.0	0.0	0.0	1.3
44	3887	18	512520	353348	2.3	354.6	0.0	0.0	0.0	0.0	356.9
45	3898	20	512520	353328	2.0	0.0	33.2	0.0	0.0	0.0	35.2
(Total)		38			7.4	366.3	35.8	0.0	0.0	0.0	413.5
46	3710	8	512654	354473	0.0	0.0	3.5	0.0	0.0	0.0	3.5
47	3710	9	510958	354424	0.0	0.0	12.8	0.0	0.0	0.0	12.8
48	3710	18	512920	354058	0.1	0.0	87.5	0.0	0.0	0.0	87.6
49	3710	18	517818	354037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3710	18	517824	354037	0.3	0.0	1.8	0.0	0.0	0.0	2.1
51	3710	19	517844	354058	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			0.4	0.0	104.1	0.0	0.0	0.0	104.5
52	3418	4	512424	354324	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3418	4	512440	354400	0.0	0.0	8.8	0.0	0.0	0.0	8.8
54	3427	4	512456	354224	0.1	0.0	0.0	0.0	0.0	0.0	0.1
55	3418	5	517818	354037	0.1	0.0	2.3	0.0	0.0	0.0	2.3
56	3443	9	517310	354304	0.0	0.0	3.8	0.0	0.0	0.0	3.8
57	3451	9	517720	354045	0.0	0.0	1.0	0.0	0.0	0.0	1.0
58	3443	9	517118	354328	0.2	0.0	9.4	0.0	0.0	0.0	9.6
59	3429	9	517256	354245	0.1	0.0	2.3	0.0	0.0	0.0	2.4
60	3427	9	517850	354229	0.3	1.3	4.5	0.0	0.0	0.0	6.1
61	3443	9	517320	354045	0.8	0.0	13.2	0.0	1.2	0.0	15.0
62	3443	9	517232	354248	0.5	0.0	0.0	0.0	0.0	0.0	0.5
63	3427	14	512840	354121	1.2	0.0	0.0	0.0	0.0	0.0	1.2
64	3419	15	512820	352845	0.0	0.0	17.4	0.0	0.0	0.0	17.4
65	3430	15	512806	354728	0.3	0.0	122.2	0.0	0.0	0.0	122.5
66	3430	18	510918	354432	0.0	0.0	0.8	0.0	0.0	0.0	0.8
67	3429	18	517820	354013	0.0	0.0	1.5	0.0	0.0	0.0	1.5
68	3443	18	517748	352858	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3430	18	517356	354213	0.6	0.0	0.0	0.0	0.0	0.0	0.6
70	3418	18	517844	354037	0.0	130.2	0.0	0.0	0.0	0.0	130.2
71	3427	18	517852	354034	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3443	18	510950	354448	0.2	0.0	3.4	0.0	0.0	0.0	3.6
73	3443	18	517856	353728	0.2	0.6	17.3	0.0	0.0	0.0	17.9
(Total)		36			3.9	131.8	205.5	0.0	1.2	1.0	342.4
Grand Total					18.4	2143.8	815.9	0.0	1.2	1.4	2663.3

Table 2.1: SOx emission of big factories (Comnort, 2005)

No	Name	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Tarhan Railway	2008	512540	353240	25.1	24197.0	211.3				26453.3
2	Power Plant				33.2	11,012.0	1,625.9				12,971.1
2.1	-Basal	18	512540	353240	10.8	11,012.0	1,22.9				11,144.9
2.2	-Fossil	2	512110	354324	3.0	0.0	2.0				5.0
2.3	-Ray	2008	512420	353120	19.8	0.0	1,501.1				1,520.9
(Total)					58.3	37,209.0	1,837.2	0.0	0.0	0.0	39,124.3

Table 2.2 : NOx emission of big factories (Common, 2005)

No.	Industrial Code	District	Location		Emission amount by Factory					Total emission (ton/year)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LPG (ton/year)
1	3129	4	51/27/40	35/45/31	5.3	0.0	8.5	0.0	0.0	0.0	13.8
2	3130	4	51/28/54	35/44/55	1.2	0.0	11.2	0.0	0.0	0.0	12.4
3	3112	9	51/16/40	35/42/45	37.9	0.0	0.0	0.0	0.0	0.0	37.9
4	3130	9	51/16/08	35/42/29	18.6	0.0	17.8	0.0	0.0	0.0	36.4
5	3130	10	51/21/48	35/42/00	3.7	0.0	0.4	0.0	0.0	0.0	4.1
6	3119	10	51/22/21	35/42/00	0.1	0.0	1.3	0.0	0.0	0.0	1.4
7	3140	11	51/23/10	35/42/29	5.9	35.3	1.5	0.0	0.1	0.0	42.8
8	3119	18	51/25/10	35/22/48	127.8	0.0	12.3	0.0	0.0	0.0	140.1
9	3129	18	51/29/20	35/40/00	0.0	0.0	0.1	0.0	0.0	0.0	0.1
10	3130	18	51/17/04	35/42/24	3.8	0.0	32.0	0.0	0.0	0.0	35.8
11	3119	18	51/15/08	35/42/27	0.8	0.0	0.0	0.0	0.0	0.0	0.8
12	3112	18	51/13/10	35/42/26	87.7	0.0	12.8	0.0	0.0	0.0	100.5
(Total)		51			270.8	35.3	48.9	0.0	0.1	0.0	455.1
13	3240	4	51/03/00	35/43/54	0.2	0.0	0.0	0.0	0.0	0.0	0.2
14	3211	9	51/18/08	35/40/24	2.4	8.2	10.4	0.0	0.0	0.0	21.0
15	3240	9	51/14/54	35/42/43	22.7	0.0	1.6	0.0	0.0	0.0	24.3
16	3211	9	51/08/58	35/43/47	3.4	0.0	7.9	0.0	0.0	0.0	11.3
17	3211	18	51/18/18	35/26/36	6.5	1.2	1.3	0.0	0.0	0.0	9.0
18	3211	20	51/26/10	35/37/04	58.8	0.0	18.8	0.0	0.0	0.0	77.6
(Total)		57			74.1	9.4	39.9	0.0	0.0	0.0	154.4
19	3313	2	51/29/40	35/42/11	0.1	0.0	1.2	0.0	0.0	0.0	1.3
20	3329	9	51/13/20	35/42/40	1.4	0.0	0.3	0.0	0.0	0.0	1.7
21	3313	18	51/17/20	35/42/24	0.2	0.0	2.1	0.0	0.0	0.0	2.3
(Total)		33			1.8	0.0	3.6	0.0	0.0	0.0	5.4
22	3419	18	51/17/50	35/42/00	5.4	39.8	0.0	0.0	0.0	0.0	45.2
(Total)		34			5.4	39.8	0.0	0.0	0.0	0.0	45.2
23	3522	4	51/04/06	35/43/23	5.1	0.0	0.0	0.0	0.0	0.0	5.1
24	3522	9	51/12/10	35/42/59	8.1	0.0	0.2	0.0	0.0	0.0	8.3
25	3521	9	51/13/28	35/43/04	6.4	0.0	0.0	0.0	0.0	0.0	6.4
26	3559	9	51/16/54	35/42/48	4.9	0.0	0.0	0.0	0.0	0.0	4.9
27	3522	9	51/13/50	35/42/58	1.8	0.0	0.0	0.0	0.0	0.0	1.8
28	3521	9	51/14/54	35/42/22	0.8	0.0	0.0	0.0	0.0	0.0	0.8
29	3552	9	51/07/40	35/44/05	0.7	4.3	0.2	0.0	0.0	0.0	5.2
30	3523	6	51/17/20	35/40/45	23.1	0.0	42.1	0.0	0.0	0.0	65.2
31	3522	6	51/08/56	35/46/10	22.0	0.0	1.5	0.0	0.0	0.0	23.5
32	3551	6	51/19/44	35/42/24	34.9	8.9	0.4	0.0	0.0	0.0	43.8
33	3529	18	51/17/28	35/40/00	0.4	0.0	0.3	0.0	0.0	0.0	0.7
34	3523	18	51/14/04	35/42/42	8.8	0.6	0.0	0.0	0.0	0.0	9.4
35	3522	18	51/18/24	35/40/20	1.0	0.0	0.0	0.0	0.0	0.0	1.0
36	3541	18	51/10/14	35/43/30	2.1	0.0	0.2	0.0	0.0	0.0	2.3
37	3522	18	51/17/28	35/40/24	2.1	0.0	0.0	0.0	0.0	0.0	2.1
38	3530	18	51/09/10	35/44/18	3.2	0.0	0.0	0.0	0.0	0.0	3.2
39	3523	18	51/19/30	35/42/18	0.0	0.0	13.8	0.0	0.0	0.0	13.8
40	3530	20	51/25/20	35/44/11	18.0	124.0	27.8	0.0	0.0	0.0	169.8
(Total)	Colata Tehran Railway				137.8	137.2	86.4	0.0	0.0	0.0	361.4
41	3610	9	51/18/44	35/40/10	3.2	0.0	0.0	0.0	0.0	0.0	3.2
42	3620	18	51/18/44	35/40/10	118.0	1.4	1.3	0.0	0.0	0.0	120.7
43	3622	18	51/18/44	35/40/10	94.4	0.0	0.0	0.0	0.0	0.0	94.4
44	3622	18	51/20/06	35/40/48	167.8	48.4	0.0	0.0	0.0	0.0	216.2
45	3629	20	51/25/20	35/43/36	145.9	0.0	15.9	0.0	0.0	0.0	161.8
(Total)		36			529.2	50.0	17.2	0.0	0.0	0.0	596.4
46	3719	8	51/20/54	35/43/08	0.2	0.0	1.7	0.0	0.0	0.0	1.9
47	3719	18	51/28/58	35/44/24	0.7	0.0	6.0	0.0	0.0	0.0	6.7
48	3710	18	51/29/50	35/43/58	8.4	0.0	11.9	0.0	0.0	0.0	20.3
49	3710	18	51/19/18	35/46/33	1.3	0.0	0.0	0.0	0.0	0.0	1.3
50	3710	18	51/18/24	35/46/17	18.3	0.0	0.8	0.0	0.0	0.0	19.1
51	3710	19	51/16/48	35/26/60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			28.9	0.0	20.4	0.0	0.0	0.0	49.3
52	3813	4	51/24/21	35/43/41	0.8	0.0	0.0	0.0	0.0	0.0	0.8
53	3819	4	51/24/40	35/44/00	0.4	0.0	3.2	0.0	0.0	0.0	3.6
54	3827	4	51/24/54	35/42/24	8.4	0.0	0.0	0.0	0.0	0.0	8.4
55	3819	8	51/15/18	35/42/11	4.8	0.0	1.1	0.0	0.0	0.0	5.9
56	3843	9	51/13/10	35/43/14	1.8	0.0	1.7	0.0	0.0	0.0	3.5
57	3851	9	51/17/20	35/40/40	0.9	0.0	0.5	0.0	0.0	0.0	1.4
58	3843	9	51/11/18	35/43/28	13.6	0.0	4.5	0.0	0.0	0.0	18.1
59	3826	9	51/22/58	35/42/45	8.2	0.0	1.1	0.0	0.0	0.0	9.3
60	3827	9	51/16/00	35/42/29	19.5	0.2	2.2	0.0	0.0	0.0	21.9
61	3843	9	51/10/20	35/43/38	39.8	0.0	6.5	0.0	3.3	0.0	51.2
62	3843	9	51/20/32	35/42/45	32.3	0.0	0.0	0.0	0.0	0.0	32.3
63	3827	14	51/28/00	35/41/31	87.6	0.0	0.0	0.0	0.0	0.0	87.6
64	3819	15	51/28/20	35/36/45	0.7	0.0	5.8	0.0	0.0	0.0	6.5
65	3830	15	51/28/08	35/42/28	20.4	0.0	34.5	0.0	0.0	0.0	54.9
66	3838	18	51/05/18	35/44/37	0.1	0.0	0.4	0.0	0.0	0.0	0.5
67	3829	18	51/18/20	35/40/13	0.1	0.0	0.7	0.0	0.0	0.0	0.8
68	3843	18	51/17/48	35/36/08	0.9	0.0	0.0	0.0	0.0	0.0	0.9
69	3839	18	51/13/06	35/42/13	0.4	0.0	0.0	0.0	0.0	0.0	0.4
70	3819	18	51/10/46	35/42/08	3.2	17.0	0.0	0.0	0.0	0.0	20.2
71	3827	18	51/18/52	35/43/14	2.1	0.0	1.8	0.0	0.0	0.0	3.9
72	3843	18	51/05/50	35/44/48	13.0	0.0	1.8	0.0	0.0	0.0	14.8
73	3843	18	51/18/58	35/37/26	12.5	0.0	8.3	0.0	0.0	0.0	20.8
(Total)		58			209.0	17.8	96.0	0.0	3.3	3.3	326.4
(Grand Total)					1318.1	289.5	392.4	0.0	3.4	3.3	2008.6

Table 2.2 : NOx emission of big factories (Common, 2005)

No.	Name	District	Location		Emission amount by Factory					Total emission (ton/year)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LPG (ton/year)
1	Tehran Railway	2008	51/25/10	35/22/10	5,577.7	4,840.9	185.8	0.0	0.0	0.0	10,703.9
2	Power Plant				7,383.0	2,076.9	1,305.9	0.0	0.0	0.0	10,765.9
2.1	- Basal	18	51/25/40	35/28/40	2,363.4	2,076.9	88.6	0.0	0.0	0.0	4,528.9
2.2	- Forous	2	51/21/10	35/43/24	864.7	0.0	1.6	0.0	0.0	0.0	
2.3	- Ray	2008	51/21/20	35/21/20	4,355.6	0.0	1,205.7	0.0	0.0	0.0	5,561.3
(Total)					17,316.3	7,017.9	1,491.7	0.0	0.0	0.0	27,825.9

Table 2.3 : CO emission of big factories (Common, 2005)

No	Industrial Code	District	Location		Natural Gas (ton/year)	Heavy Oil (ton/year)	Emission amount by Factory				Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)			Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3120	4	51/27/40	35/45/31	0.5	0.0	0.3	0.0	0.0	0.0	1.0
2	3130	4	51/28/54	35/44/35	0.1	0.0	0.0	0.0	0.0	0.0	1.0
3	3112	9	51/18/40	35/40/45	3.7	0.0	0.0	0.0	0.0	0.0	3.7
4	3130	9	51/18/58	35/40/29	1.8	0.0	1.4	0.0	0.0	0.0	3.2
5	3130	10	51/21/48	35/42/00	0.4	0.0	0.0	0.0	0.0	0.0	0.4
6	3119	10	51/22/24	35/42/09	0.0	0.0	0.1	0.0	0.0	0.0	0.1
7	3140	11	51/23/10	35/40/29	0.4	2.5	0.1	0.0	0.0	0.0	3.0
8	3115	16	51/25/10	35/32/48	12.5	0.0	1.1	0.0	0.0	0.0	13.6
9	3129	18	51/22/20	35/42/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	51/17/24	35/45/24	0.3	0.0	2.8	0.0	0.0	0.0	3.1
11	3119	18	51/18/08	35/40/37	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12	3112	18	51/18/10	35/40/29	0.0	0.0	1.0	0.0	0.0	0.0	1.0
(Total)	31				26.5	2.5	7.8	0.0	0.0	0.0	40.3
13	3240	4	51/33/50	35/43/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	8	51/18/56	35/40/24	0.0	0.6	0.0	0.0	0.0	0.0	0.6
15	3240	8	51/14/54	35/42/43	2.2	0.0	0.1	0.0	0.0	0.0	2.3
16	3211	9	51/06/56	35/43/47	0.3	0.0	0.8	0.0	0.0	0.0	1.1
17	3211	18	51/18/19	35/40/59	0.8	0.1	0.1	0.0	0.0	0.0	1.0
18	3211	20	51/26/10	35/37/64	3.8	0.0	1.5	0.0	0.0	0.0	5.3
(Total)	32				7.3	0.7	3.2	0.0	0.0	0.0	11.2
19	3313	2	51/29/40	35/42/11	0.0	0.0	0.1	0.0	0.0	0.0	0.1
20	3320	8	51/13/20	35/42/40	0.1	0.0	0.0	0.0	0.0	0.0	0.1
21	3313	18	51/17/29	35/40/34	0.0	0.0	0.2	0.0	0.0	0.0	0.2
(Total)	33				0.2	0.0	0.3	0.0	0.0	0.0	0.5
22	3419	18	51/17/50	35/40/24	0.5	2.8	0.0	0.0	0.0	0.0	3.3
(Total)	34				0.5	2.8	0.0	0.0	0.0	0.0	3.3
23	3522	4	51/34/38	35/43/23	0.9	0.0	0.0	0.0	0.0	0.0	0.9
24	3522	8	51/32/19	35/42/52	0.8	0.0	0.0	0.0	0.0	0.0	0.8
25	3521	8	51/13/29	35/43/04	0.5	0.0	0.0	0.0	0.0	0.0	0.5
26	3559	9	51/18/54	35/40/48	0.5	0.0	0.0	0.0	0.0	0.0	0.5
27	3522	9	51/13/50	35/42/08	0.2	0.0	0.0	0.0	0.0	0.0	0.2
28	3521	9	51/14/54	35/42/22	0.3	0.0	0.0	0.0	0.0	0.0	0.3
29	3522	9	51/07/40	35/43/05	0.3	0.4	0.0	0.0	0.0	0.0	0.7
30	3523	9	51/12/20	35/40/45	2.3	0.0	3.4	0.0	0.0	0.0	5.7
31	3522	9	51/06/56	35/44/10	2.2	0.0	0.1	0.0	0.0	0.0	2.3
32	3531	9	51/18/44	35/42/24	3.4	0.5	0.0	0.0	0.0	0.0	3.9
33	3529	18	51/17/29	35/40/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	3523	18	51/14/54	35/42/42	0.6	0.0	0.0	0.0	0.0	0.0	0.6
35	3522	18	51/18/21	35/40/29	0.1	0.0	0.0	0.0	0.0	0.0	0.1
36	3531	18	51/10/14	35/43/20	0.1	0.0	0.0	0.0	0.0	0.0	0.1
37	3522	18	51/17/29	35/42/24	0.2	0.0	0.0	0.0	0.0	0.0	0.2
38	3530	18	51/06/10	35/44/19	0.3	0.0	1.1	0.0	0.0	0.0	1.4
39	3523	18	51/10/30	35/43/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	51/25/20	35/39/41	1.6	8.7	2.3	0.0	0.0	0.0	12.6
(Total)	35				13.5	9.8	7.0	0.0	0.0	0.0	30.1
41	3610	9			0.3	0.0	0.0	0.0	0.0	0.0	0.3
42	3620	9	51/18/44	35/40/13	11.5	0.1	0.1	0.0	0.0	0.0	11.8
43	3622	15			8.2	0.0	0.0	0.0	0.0	0.0	8.2
44	3622	15	51/29/56	35/38/48	18.4	3.4	0.0	0.0	0.0	0.0	21.8
45	3629	20	51/25/20	35/39/38	14.3	0.0	1.3	0.0	0.0	0.0	15.6
(Total)	36				51.8	3.5	1.4	0.0	0.0	0.0	56.7
46	3710	8	51/20/54	35/42/81	0.0	0.0	0.1	0.0	0.0	0.0	0.1
47	3710	9	51/06/56	35/44/24	0.1	0.0	0.5	0.0	0.0	0.0	0.6
48	3710	18	51/20/50	35/38/55	0.8	0.0	3.4	0.0	0.0	0.0	4.2
49	3710	19	51/19/18	35/38/37	0.1	0.0	0.0	0.0	0.0	0.0	0.1
50	3710	19	51/18/24	35/38/37	1.8	0.0	0.1	0.0	0.0	0.0	1.9
51	3710	19	51/18/48	35/38/55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	37				2.8	0.0	4.1	0.0	0.0	0.0	6.9
52	3813	4	51/34/24	35/43/44	0.1	0.0	0.0	0.0	0.0	0.0	0.1
53	3819	4	51/34/40	35/44/00	0.0	0.0	0.3	0.0	0.0	0.0	0.3
54	3819	4	51/34/56	35/42/24	0.8	0.0	0.0	0.0	0.0	0.0	0.8
55	3843	5	51/19/18	35/42/11	0.5	0.0	0.1	0.0	0.0	0.0	0.6
56	3843	9	51/23/10	35/43/14	0.2	0.0	0.1	0.0	0.0	0.0	0.3
57	3851	9	51/17/29	35/43/60	0.1	0.0	0.0	0.0	0.0	0.0	0.1
58	3843	9	51/11/18	35/42/28	1.3	0.0	0.4	0.0	0.0	0.0	1.7
59	3827	9	51/15/00	35/42/29	1.0	0.0	0.1	0.0	0.0	0.0	1.1
60	3843	9	51/15/20	35/43/26	3.8	0.0	0.2	0.0	0.0	0.0	4.0
61	3843	9	51/12/22	35/42/69	3.2	0.0	0.5	0.0	25.8	0.0	29.5
62	3827	14	51/28/40	35/41/21	4.8	0.0	0.0	0.0	0.0	0.0	4.8
63	3819	15	51/28/20	35/38/43	0.1	0.0	0.0	0.0	0.0	0.0	0.1
64	3830	15	51/28/08	35/40/23	2.9	0.0	0.0	0.0	0.0	0.0	2.9
65	3839	18	51/05/18	35/44/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	3829	18	51/18/20	35/40/13	0.0	0.0	0.1	0.0	0.0	0.0	0.1
67	3843	18	51/17/49	35/38/68	0.1	0.0	0.0	0.0	0.0	0.0	0.1
68	3839	18	51/13/08	35/41/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3819	18	51/10/48	35/42/64	0.3	1.2	0.0	0.0	0.0	0.0	1.5
70	3827	18	51/18/52	35/40/14	0.2	0.0	0.0	0.0	0.0	0.0	0.2
71	3843	18	51/05/00	35/44/48	1.3	0.0	0.1	0.0	0.0	0.0	1.4
72	3843	18	51/18/56	35/37/26	1.2	0.0	0.7	0.0	0.0	0.0	1.9
(Total)	38				28.4	1.2	7.0	0.0	25.8	0.0	42.8
(Grand Total)					129.0	20.3	31.6	0.0	257.1	0.0	438.0

Table 2.3 : CO emission of big factories (Common, 2005)

No	Name	District	Location		Natural Gas (ton/year)	Heavy Oil (ton/year)	Emission amount by Factory				Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)			Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Tehran Refinery	2008	51/25/40	35/32/40	115.8	256.0	10.3	0.0	0.0	0.0	442.0
2	Power Plant				232.5	107.8	7.4	0.0	0.0	0.0	417.6
2.1	- Refet	18	51/25/40	35/34/40	24.4	107.8	8.8	0.0	0.0	0.0	137.0
2.2	- Farhad	2	51/24/10	35/43/24	209.9	0.0	0.1	0.0	0.0	0.0	210.0
2.3	- Ray	2008	51/24/30	35/31/20	137.1	0.0	71.5	0.0	0.0	0.0	208.7
(Total)					485.4	363.7	87.0	0.0	0.0	0.0	850.8

Table 2.4 : HC emission of big factories (Common, 2005)

No	Industrial Code	District	Location	Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	3120	4	51/27/40	35/45/31	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.4
2	3130	4	51/29/24	35/44/35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3112	9	51/18/40	35/40/45	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
4	3130	9	51/18/08	35/40/28	0.2	0.0	1.0	0.0	0.0	0.0	0.0	1.2
5	3130	10	51/21/43	35/42/00	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6	3119	10	51/22/24	35/42/00	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
7	3140	11	51/23/10	35/40/28	0.1	1.8	0.5	0.0	0.1	0.0	0.0	2.5
8	3119	18	51/25/10	35/32/48	1.8	0.0	0.7	0.0	0.0	0.0	0.0	2.5
9	3129	18	51/20/20	35/40/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	51/17/24	35/45/24	0.0	0.0	1.8	0.0	0.0	0.0	0.0	1.8
11	3119	18	51/18/08	35/40/37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3112	18	51/18/10	35/43/20	0.9	0.0	0.7	0.0	0.0	0.0	0.0	1.6
(Total)	31					3.8	1.8	2.4	0.0	0.1	0.0	11.3
13	3240	4	51/33/00	35/43/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	51/18/28	35/40/20	0.0	0.4	0.8	0.0	0.0	0.0	0.0	1.2
15	3240	9	51/14/54	35/42/43	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.4
16	3211	9	51/08/58	35/43/47	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4
17	3211	18	51/18/18	35/38/59	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
18	3211	20	51/28/10	35/37/64	0.5	0.0	1.1	0.0	0.0	0.0	0.0	1.6
(Total)	32					1.0	0.5	2.2	0.0	0.0	0.0	3.8
19	3313	2	51/20/40	35/42/11	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
20	3320	9	51/13/20	35/42/40	0.0	0.0	2.0	0.0	0.0	0.0	0.0	2.0
21	3313	18	51/17/20	35/43/34	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
(Total)	33					0.0	0.0	2.2	0.0	0.0	0.0	2.2
22	3419	18	51/17/50	35/40/24	0.1	2.1	0.0	0.0	0.0	0.0	0.0	2.2
(Total)	34					0.1	2.1	0.0	0.0	0.0	0.0	2.2
35	3522	4	51/34/28	35/43/23	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
36	3522	9	51/21/10	35/42/58	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
37	3521	8	51/13/28	35/43/04	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
38	3559	9	51/15/54	35/42/48	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
39	3522	9	51/13/50	35/42/38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3521	9	51/14/54	35/42/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	3552	9	51/07/40	35/44/05	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
42	3520	9	51/17/20	35/40/45	0.3	0.0	2.4	0.0	0.0	0.0	0.0	2.7
43	3522	9	51/08/58	35/44/10	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.4
44	3551	9	51/18/44	35/42/24	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.9
45	3529	18	51/17/28	35/40/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	3523	18	51/14/04	35/42/42	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
47	3522	18	51/18/24	35/40/20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	3541	18	51/10/14	35/43/30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	3522	18	51/17/28	35/40/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3530	18	51/08/10	35/44/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	3525	18	51/10/30	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	3525	20	51/25/20	35/44/11	0.7	8.5	1.8	0.0	0.0	0.0	0.0	10.0
(Total)	35	Qazvin Refinery				1.9	7.2	4.8	0.0	0.0	0.0	14.0
41	3610	9	51/18/44	35/40/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3620	9	51/18/44	35/40/13	1.8	0.1	0.1	0.0	0.0	0.0	0.0	1.9
43	3622	18	51/28/08	35/38/43	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
44	3622	18	51/28/08	35/38/43	2.3	2.3	0.0	0.0	0.0	0.0	0.0	4.6
45	3620	20	51/25/20	35/43/34	2.0	0.0	0.9	0.0	0.0	0.0	0.0	2.9
(Total)	36					7.4	2.4	1.0	0.0	0.0	0.0	11.0
46	3710	8	51/09/54	35/43/84	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
47	3710	9	51/05/58	35/44/24	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
48	3710	18	51/02/50	35/38/50	0.1	0.0	2.3	0.0	0.0	0.0	0.0	2.5
49	3710	18	51/19/18	35/38/52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3710	18	51/18/24	35/38/37	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
51	3710	18	51/18/48	35/38/56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	37					0.4	0.0	2.8	0.0	0.0	0.0	3.2
52	3813	4	51/34/24	35/43/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3819	4	51/34/40	35/44/00	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
54	3827	4	51/34/58	35/42/24	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
55	3819	5	51/19/18	35/42/13	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
56	3843	9	51/13/18	35/43/14	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
57	3851	9	51/17/20	35/40/40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3843	9	51/11/18	35/43/25	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.4
59	3826	9	51/12/58	35/42/45	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2
60	3827	9	51/18/00	35/42/28	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.4
61	3843	9	51/10/20	35/43/25	0.8	0.0	0.4	0.0	0.0	0.0	0.0	1.2
62	3843	9	51/21/20	35/42/48	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
63	3827	14	51/28/40	35/41/01	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
64	3819	15	51/28/20	35/38/15	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
65	3830	15	51/28/28	35/41/28	0.3	0.0	3.3	0.0	0.0	0.0	0.0	3.6
66	3839	18	51/05/18	35/44/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	3829	18	51/18/20	35/40/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	3843	18	51/17/48	35/36/08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3839	18	51/13/08	35/42/15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	51/10/48	35/42/04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	3827	18	51/18/52	35/40/14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3843	18	51/05/30	35/44/48	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3
73	3843	18	51/18/58	35/37/28	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
(Total)	38					3.1	0.0	5.1	0.0	0.0	0.0	8.2
(Grand Total)						18.4	15.2	31.9	6.0	0.1	0.0	65.6

Table 2.4 : HC emission of big factories (Common, 2005)

No	Name	District	Location	Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	Tehran Refinery	2008	51/25/40	35/32/40		431.4	258.0	10.3				689.8
2	Power Plant					531.4	107.6	72.6				711.6
2.1	- Basal	18	51/25/40	35/38/40		170.1	107.6	5.5				283.2
2.2	- Forouh	2	51/21/10	35/43/24		47.8	0.0	0.1				47.9
2.3	- Ray	2008	51/24/20	35/31/20		313.5	0.0	67.0				380.5
(Total)						932.8	363.7	72.9	0.0	0.0	0.0	1373.4

Table 2.5 : SPM emission of bio factories (Common 2005)

No	Industrial Code	District	Location		Emission amount by Factory					Total emission (ton/year)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LP Gas (ton/year)
1	3129	4	51°27'49"	35°45'31"	0.4	0.0	2.8	0.0	0.0	0.0	3.3
2	3130	4	51°29'54"	35°44'55"	0.1	0.0	4.5	0.0	0.0	0.0	4.6
3	3112	8	51°18'40"	35°40'45"	3.2	0.0	0.0	0.0	0.0	0.0	3.2
4	3130	8	51°18'08"	35°40'29"	1.8	0.0	7.2	0.0	0.0	0.0	8.8
5	3130	10	51°21'48"	35°42'00"	0.3	0.0	0.2	0.0	0.0	0.0	0.5
6	3119	10	51°22'24"	35°42'00"	0.0	0.0	0.5	0.0	0.0	0.0	0.5
7	3140	14	51°23'10"	35°40'28"	0.3	13.8	0.8	0.0	0.0	0.0	14.7
8	3115	18	51°25'10"	35°32'48"	10.7	0.0	5.4	0.0	0.0	0.0	16.1
9	3129	18	51°20'20"	35°40'00"	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	51°17'04"	35°45'24"	0.3	0.0	12.9	0.0	0.0	0.0	13.2
11	3119	18	51°18'08"	35°40'37"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12	3112	18	51°18'10"	35°40'29"	5.7	0.0	5.7	0.0	0.0	0.0	10.8
(Total)		31			22.7	13.8	39.2	0.0	0.0	0.0	75.7
13	3240	4	51°23'00"	35°43'54"	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	8	51°18'08"	35°40'24"	0.2	3.2	4.2	0.0	0.0	0.0	7.6
15	3240	8	51°18'54"	35°42'43"	1.8	0.0	0.8	0.0	0.0	0.0	2.5
16	3211	8	51°18'08"	35°40'47"	0.3	0.0	3.2	0.0	0.0	0.0	3.5
17	3211	18	51°18'18"	35°39'59"	0.8	0.5	0.5	0.0	0.0	0.0	1.8
18	3211	20	51°26'10"	35°37'04"	3.1	0.0	7.8	0.0	0.0	0.0	10.7
(Total)		52			6.3	3.7	16.1	0.0	0.0	0.0	26.1
19	3313	2	51°29'40"	35°42'13"	0.0	0.0	0.5	0.0	0.0	0.0	0.5
20	3320	9	51°13'20"	35°42'42"	0.1	0.0	0.1	0.0	0.0	0.0	0.2
21	3313	18	51°17'20"	35°40'24"	0.0	0.0	0.8	0.0	0.0	0.0	0.8
(Total)		33			0.2	0.0	1.4	0.0	0.0	0.0	1.6
22	3419	18	51°17'50"	35°40'24"	0.5	35.6	0.0	0.0	0.0	0.0	36.1
(Total)		34			0.5	35.6	0.0	0.0	0.0	0.0	36.1
23	3522	4	51°14'28"	35°43'23"	0.4	0.0	0.0	0.0	0.0	0.0	0.4
24	3522	9	51°12'10"	35°42'56"	0.7	0.0	0.1	0.0	0.0	0.0	0.8
25	3521	9	51°13'28"	35°43'04"	0.5	0.0	0.0	0.0	0.0	0.0	0.5
26	3550	9	51°18'54"	35°42'48"	0.4	0.0	0.0	0.0	0.0	0.0	0.4
27	3522	9	51°13'50"	35°42'38"	0.2	0.0	0.0	0.0	0.0	0.0	0.2
28	3521	9	51°14'54"	35°42'22"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
29	3552	9	51°07'40"	35°44'05"	8.1	2.4	0.1	0.0	0.0	0.0	10.6
30	3523	9	51°17'20"	35°40'45"	1.9	0.0	17.0	0.0	0.0	0.0	18.9
31	3522	9	51°06'56"	35°44'10"	1.8	0.0	0.8	0.0	0.0	0.0	2.5
32	3551	9	51°18'14"	35°42'24"	2.9	2.7	0.2	0.0	0.0	0.0	5.8
33	3520	18	51°17'28"	35°40'00"	0.0	0.0	8.1	0.0	0.0	0.0	8.1
34	3523	18	51°14'04"	35°42'42"	0.6	0.0	0.0	0.0	0.0	0.0	0.6
35	3522	18	51°18'24"	35°40'20"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
36	3581	18	51°10'14"	35°43'30"	0.1	0.0	0.1	0.0	0.0	0.0	0.2
37	3522	18	51°17'20"	35°40'24"	0.2	0.0	0.0	0.0	0.0	0.0	0.2
38	3530	18	51°08'10"	35°44'19"	0.3	0.0	5.5	0.0	0.0	0.0	5.8
39	3523	18	51°10'30"	35°42'18"	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	51°25'20"	35°44'11"	1.3	48.5	11.2	0.0	0.0	0.0	61.0
(Total)	Dezire Tehran Refinery				0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		35			11.8	53.8	35.0	0.0	0.0	0.0	100.1
41	3210	8	51°18'44"	35°40'13"	0.3	0.0	0.0	0.0	0.0	0.0	0.3
42	3220	9	51°18'44"	35°40'13"	8.9	0.8	0.5	0.0	0.0	0.0	11.0
43	3222	15	51°20'08"	35°38'44"	7.9	0.0	0.0	0.0	0.0	0.0	7.9
44	3222	15	51°20'08"	35°38'44"	14.1	18.8	0.0	0.0	0.0	0.0	33.0
45	3229	20	51°25'20"	35°43'35"	12.2	0.0	8.4	0.0	0.0	0.0	16.7
(Total)		36			44.4	19.5	7.0	0.0	0.0	0.0	70.9
46	3710	8	51°20'54"	35°42'38"	0.0	0.0	0.7	0.0	0.0	0.0	0.7
47	3710	8	51°06'56"	35°44'24"	0.1	0.0	2.4	0.0	0.0	0.0	2.5
48	3710	18	51°20'50"	35°42'58"	0.7	0.0	18.9	0.0	0.0	0.0	17.6
49	3710	18	51°19'18"	35°42'32"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
50	3710	18	51°18'24"	35°40'27"	1.5	0.0	0.3	0.0	0.0	0.0	1.9
51	3710	19	51°18'48"	35°42'52"	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			2.4	0.0	22.4	0.0	0.0	0.0	27.8
52	3813	4	51°34'24"	35°43'44"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
53	3819	4	51°34'40"	35°44'00"	0.0	0.0	1.3	0.0	0.0	0.0	1.3
54	3827	4	51°34'58"	35°42'24"	0.5	0.0	0.0	0.0	0.0	0.0	0.5
55	3819	5	51°18'18"	35°42'11"	0.4	0.0	0.4	0.0	0.0	0.0	0.8
56	3843	9	51°13'10"	35°43'11"	0.1	0.0	0.7	0.0	0.0	0.0	0.8
57	3851	9	51°17'20"	35°40'40"	0.1	0.0	0.2	0.0	0.0	0.0	0.3
58	3843	9	51°17'18"	35°43'28"	1.1	0.0	1.8	0.0	0.0	0.0	3.0
59	3829	9	51°12'50"	35°42'43"	0.7	0.0	0.4	0.0	0.0	0.0	1.2
60	3827	9	51°18'00"	35°40'29"	1.8	0.1	0.8	0.0	0.0	0.0	2.8
61	3843	9	51°10'20"	35°43'58"	3.5	0.0	2.8	0.0	1.3	0.0	7.2
62	3843	9	51°12'52"	35°42'48"	2.7	0.0	0.0	0.0	0.0	0.0	2.7
63	3827	14	51°28'40"	35°41'01"	7.3	0.0	0.0	0.0	0.0	0.0	7.3
64	3819	15	51°28'20"	35°38'43"	0.1	0.0	7.4	0.0	0.0	0.0	7.5
65	3839	15	51°28'08"	35°41'28"	1.7	0.0	23.7	0.0	0.0	0.0	25.4
66	3839	18	51°05'18"	35°44'02"	0.0	0.0	0.2	0.0	0.0	0.0	0.2
67	3829	18	51°18'20"	35°43'13"	0.0	0.0	0.3	0.0	0.0	0.0	0.3
68	3843	18	51°17'48"	35°42'08"	0.1	0.0	0.0	0.0	0.0	0.0	0.1
69	3839	18	51°13'08"	35°43'13"	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	51°13'48"	35°42'68"	0.3	8.9	0.0	0.0	0.0	0.0	7.2
71	3827	18	51°18'52"	35°40'14"	0.2	0.0	0.0	0.0	0.0	0.0	0.2
72	3843	18	51°05'00"	35°44'44"	1.1	0.0	0.7	0.0	0.0	0.0	1.7
73	3843	18	51°18'58"	35°37'28"	1.0	0.0	3.3	0.0	0.0	0.0	4.4
(Total)		38			22.8	7.0	38.8	0.0	1.3	0.0	70.6
(Grand Total)					110.8	113.1	157.8	0.0	1.4	1.0	383.9

Table 2.5 : SPM emission of bio factories (Common 2005)

No	Name	District	Location		Emission amount by Factory					Total emission (ton/year)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)		LP Gas (ton/year)
1	Tehran Refinery	2009	51°25'40"	35°32'45"	150.5	1,120.2	45.4	0.0	0.0	0.0	1,316.2
2	Power Plant				189.3	470.9	319.5	0.0	0.0	0.0	859.6
2.1	- Basat	18	51°25'40"	35°38'45"	63.8	470.9	24.1	0.0	0.0	0.0	558.8
2.2	- Forouh	2	51°21'10"	35°43'24"	17.8	0.0	0.4	0.0	0.0	0.0	18.3
2.3	- Ray	2008	51°24'00"	35°31'20"	107.8	0.0	294.0	0.0	0.0	0.0	412.5
(Total)					349.8	1,591.1	364.9	0.0	0.0	0.0	2,305.8

Table 3.0: District wise fuel consumption (Common, 2010)
(CH11 Q452)

Fuel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	1.5	1.2	3.2	20.2	18.4	8.1	3.5	3.8	19.9	1.2	5.4	10.0	7.6	1.5	6.3	4.6	3.5	23.8	6.3	23.5	171.5	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Commercial/Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Sub-total)	1.5	1.2	3.2	20.2	18.4	8.1	3.5	3.8	19.9	1.2	5.4	10.0	7.6	1.5	6.3	4.6	3.5	23.8	6.3	23.5	171.5	
2	13.7	4.0	70.5	40.4	45.4	32.2	4.2	17.7	49.7	4.7	19.9	27.3	19.9	8.6	19.1	20.0	8.2	76.4	16.4	73.1	512.4	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	66.1	95.6	65.8	136.3	92.8	72.9	43.1	96.4	56.5	81.9	69.7	83.1	51.2	101.6	132.3	77.9	69.8	72.3	51.9	77.1	1,648.2	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	81.8	99.6	65.8	176.7	138.2	105.1	47.3	193.1	106.2	86.8	89.7	109.5	71.0	108.2	151.3	89.8	88.0	147.7	68.4	150.2	2,156.6	
3	62.3	27.2	101.1	740.5	271.5	162.6	24.8	60.4	209.4	20.4	79.5	101.2	119.2	79.1	103.7	103.2	47.6	440.5	102.8	436.5	2,837.1	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	46.4	63.7	42.6	82.5	61.6	51.6	59.9	65.1	249.5	56.0	90.2	99.6	96.7	69.1	91.1	53.5	56.2	60.3	36.9	92.7	1,327.9	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	107.7	63.3	143.6	339.4	333.2	214.1	87.6	125.7	364.6	77.7	190.0	170.8	154.3	88.2	208.9	167.3	102.8	311.6	138.9	614.6	5,167.4	
4	29.8	22.9	39.4	107.0	219.0	69.7	32.8	42.8	170.5	18.0	40.8	23.2	69.2	19.8	178.0	170.2	34.9	992.8	298.1	1,042.2	3,249.2	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	6.5	8.6	8.4	21.5	8.4	20.6	18.6	13.4	65.1	14.7	24.9	74.7	9.2	16.5	27.1	16.2	16.1	17.0	11.2	13.9	365.0	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	37.3	31.5	47.8	128.5	227.4	114.3	51.4	56.2	185.6	30.7	71.6	147.9	69.5	36.1	211.7	334.9	50.1	919.5	260.3	1,479.0	4,153.7	
5	2.2	1.2	5.2	21.6	17.6	9.2	2.6	4.0	29.8	1.4	6.7	7.1	9.2	1.9	7.3	6.1	4.1	29.2	9.7	26.0	169.3	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	27.5	38.6	25.6	56.4	37.3	20.2	23.7	39.1	27.8	33.4	26.1	37.2	20.8	41.3	54.1	31.8	32.9	29.7	21.3	31.4	674.8	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	29.7	39.8	31.0	77.1	64.7	39.8	26.3	43.1	47.6	34.7	33.8	44.2	30.1	42.8	61.4	39.9	37.0	62.5	27.9	59.5	697.7	
6	66.7	56.2	260.8	1,199.2	1,092.9	592.6	113.6	140.9	1,233.7	50.0	212.8	397.9	669.7	56.4	441.6	278.6	259.0	1,957.9	345.8	2,018.8	11,327.2	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	316.9	494.1	390.6	648.0	433.0	362.8	397.2	496.2	273.5	391.9	348.2	449.5	244.7	483.7	636.5	373.0	368.2	390.7	259.5	368.9	2,842.7	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	387.6	574.2	591.2	1,817.6	1,486.1	697.4	510.6	637.1	1,716.4	444.4	563.1	627.4	1,004.3	578.4	1,200.8	671.0	642.1	2,389.1	766.3	3,259.5	21,763.3	
7	4.5	14.8	20.2	272.4	137.5	69.0	22.2	81.4	193.5	15.6	59.7	79.4	61.0	11.6	52.2	41.9	46.5	281.2	69.9	279.5	1,649.8	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	40.4	66.0	44.2	95.7	63.9	53.0	66.6	67.1	41.1	57.9	52.2	73.1	36.9	71.2	94.1	55.5	57.0	520.0	370.8	543.9	1,796.4	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	44.9	80.8	64.4	2,075.4	2,375.9	1,413.9	601.1	666.6	2,065.2	660.6	644.3	1,383.3	1,197.6	677.0	1,690.0	1,054.4	670.7	3,069.4	1,054.7	6,100.1	34,472.0	
8	4.5	14.8	20.2	272.4	137.5	69.0	22.2	81.4	193.5	15.6	59.7	79.4	61.0	11.6	52.2	41.9	46.5	281.2	69.9	279.5	1,649.8	
Industrial Membership Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Commercial/Household	40.4	66.0	44.2	95.7	63.9	53.0	66.6	67.1	41.1	57.9	52.2	73.1	36.9	71.2	94.1	55.5	57.0	520.0	370.8	543.9	1,796.4	
Energy Conversion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Sub-total)	44.9	80.8	64.4	2,075.4	2,375.9	1,413.9	601.1	666.6	2,065.2	660.6	644.3	1,383.3	1,197.6	677.0	1,690.0	1,054.4	670.7	3,069.4	1,054.7	6,100.1	34,472.0	

Table 3.1: District wise SO_x emission quantity (Common, 2010)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Chennai	2.4	1.9	8.0	31.3	28.4	32.9	5.4	9.6	30.9	1.8	8.4	13.5	11.6	7.3	9.8	7.1	5.4	36.9	9.7	30.4	207.2	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	2.4	1.9	8.0	31.3	28.4	32.9	5.4	9.6	30.9	1.8	8.4	13.5	11.6	7.3	9.8	7.1	5.4	36.9	9.7	30.4	207.2	
2	Karimnagar	49.2	14.8	73.6	145.6	103.5	113.8	22.5	45.9	175.9	18.9	71.8	84.0	71.5	23.9	88.7	23.3	28.5	721.4	99.2	203.9	1,468.1	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	245.4	245.3	279.1	482.7	333.9	282.6	228.6	242.1	310.6	208.1	231.0	209.4	184.2	365.6	429.2	269.2	269.2	789.5	192.0	217.9	5,872.6	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	245.4	245.3	279.1	482.7	333.9	282.6	228.6	242.1	310.6	208.1	231.0	209.4	184.2	365.6	429.2	269.2	269.2	789.5	192.0	217.9	5,872.6	
3	Coimbatore	204.6	306.0	302.6	608.4	487.0	376.4	316.1	363.0	346.5	311.6	372.8	303.3	295.8	366.7	344.9	345.9	319.7	531.9	248.1	540.9	7,772.2	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	204.6	306.0	302.6	608.4	487.0	376.4	316.1	363.0	346.5	311.6	372.8	303.3	295.8	366.7	344.9	345.9	319.7	531.9	248.1	540.9	7,772.2	
4	Madurai	1,366.7	2,119.8	2,093.2	5,491.2	11,626.7	4,673.3	1,725.0	2,274.9	9,021.5	6,469.9	2,163.8	3,688.1	3,201.6	1,959.2	8,241.6	8,041.8	1,854.0	31,473.3	14,265.8	20,359.9	172,324.9	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	345.0	496.6	444.1	1,442.2	444.3	1,046.2	989.3	709.0	504.8	781.7	3,319.4	3,908.7	400.0	677.9	1,440.2	4,051.1	403.4	600.2	959.4	734.7	18,849.6	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	1,711.7	2,616.4	2,537.3	6,933.4	12,070.0	6,089.5	2,714.3	2,983.9	9,526.3	7,251.6	5,483.2	7,518.1	3,908.7	2,647.1	11,713.2	12,042.9	2,257.4	37,446.3	14,995.2	21,317.9	172,324.9	
5	Palani	5.7	3.3	13.3	59.2	49.0	26.7	7.2	10.3	66.9	3.0	12.6	16.1	20.9	3.7	18.0	13.0	16.4	74.5	17.0	28.6	483.5	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	70.2	64.7	65.9	141.5	93.3	77.0	66.1	99.9	60.8	65.4	74.3	64.6	53.3	106.6	136.2	81.3	84.0	75.9	64.3	40.3	1,723.1	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	75.9	68.0	79.2	181.5	142.3	103.7	73.3	109.8	66.6	70.8	78.6	69.2	56.6	116.6	146.2	81.3	84.0	75.9	64.3	40.3	1,723.1	
6	Madhavaram	2.0	2.3	10.0	49.4	43.2	23.3	4.6	5.9	52.5	2.1	9.9	15.0	21.4	2.4	18.9	11.7	10.7	82.0	22.9	64.9	574.9	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	10.4	16.6	12.0	27.1	18.1	18.0	16.6	18.1	11.7	16.4	14.6	19.7	10.2	20.3	28.6	16.7	16.2	14.7	10.5	15.4	332.6	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	12.4	18.9	14.0	27.1	18.1	18.0	16.6	18.1	11.7	16.4	14.6	19.7	10.2	20.3	28.6	16.7	16.2	14.7	10.5	15.4	332.6	
7	Sole Fuel	111.0	366.4	499.1	6,753.2	3,397.6	1,631.2	548.3	1,260.0	3,792.8	391.1	1,275.9	1,887.8	1,599.3	201.9	1,269.9	1,033.1	1,147.8	6,209.4	1,663.5	6,967.9	41,753.1	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	111.0	366.4	499.1	6,753.2	3,397.6	1,631.2	548.3	1,260.0	3,792.8	391.1	1,275.9	1,887.8	1,599.3	201.9	1,269.9	1,033.1	1,147.8	6,209.4	1,663.5	6,967.9	41,753.1	
8	Total	1,027.5	1,635.4	2,832.3	13,933.1	15,964.0	7,927.2	2,925.5	3,998.6	13,584.2	1,203.9	3,731.9	6,950.8	5,099.4	1,404.2	10,482.8	10,327.2	3,124.6	34,294.3	18,192.3	26,090.7	221,209.2	
	Industrial Incubator Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial Household	737.7	1,008.9	811.9	1,929.6	961.9	1,523.1	1,487.8	1,266.6	843.6	1,297.2	1,730.0	4,278.5	2,992.0	1,486.7	2,209.9	1,258.0	1,371.9	1,322.0	896.9	1,166.9	24,433.1	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	2,365.2	2,644.3	3,644.2	14,866.7	16,926.2	8,450.8	3,031.2	4,264.4	14,627.8	2,595.1	6,011.5	10,529.3	7,924.4	2,872.4	13,693.5	13,644.3	4,306.1	40,443.2	17,048.1	20,439.6	172,071.6	

Table 3.3 : District wise CO emission quantity (Common, 2010)

Sl. No.	Category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Gasoline	492.7	399.4	1,042.5	6,549.9	5,219.9	2,632.6	1,131.6	1,223.9	6,406.9	399.3	1,759.3	3,227.4	2,179.3	493.9	2,049.8	1,488.1	1,130.0	7,309.9	2,029.9	7,619.9	59,811.9
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	492.7	399.4	1,042.5	6,549.9	5,219.9	2,632.6	1,131.6	1,223.9	6,406.9	399.3	1,759.3	3,227.4	2,179.3	493.9	2,049.8	1,488.1	1,130.0	7,309.9	2,029.9	7,619.9	59,811.9
2	Kerosene	8.9	2.9	12.8	28.5	78.3	79.2	3.9	0.0	31.2	2.9	12.5	14.6	19.3	4.2	12.0	13.1	5.1	47.3	10.3	43.9	321.8
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	42.8	90.2	40.0	86.8	59.2	45.8	51.6	96.3	36.7	53.8	52.2	34.1	93.6	63.1	46.9	59.9	45.4	37.6	45.4	48.4	1,073.9
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	51.4	93.1	40.0	86.8	59.2	45.8	51.6	96.3	36.7	53.8	52.2	34.1	93.6	63.1	46.9	59.9	45.4	37.6	45.4	48.4	1,073.9
3	Gas Oil	331.9	171.1	65.0	139.0	147.8	84.5	19.4	32.9	181.3	11.2	43.3	55.1	64.9	15.6	95.4	59.2	25.6	299.9	53.9	297.9	1,544.3
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	291.9	49.0	29.8	58.1	38.7	32.3	35.6	49.8	25.9	35.2	49.7	24.0	43.4	34.7	33.6	34.7	31.6	22.3	22.3	33.1	714.6
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	274.4	52.3	61.6	116.1	146.5	67.6	19.4	75.7	181.3	11.2	43.3	55.1	64.9	15.6	95.4	59.2	25.6	299.9	53.9	297.9	1,544.3
4	Heavy Oil	13.0	11.5	19.3	53.9	110.0	47.1	18.3	21.5	48.7	6.0	20.5	36.8	30.3	9.6	98.4	69.9	17.5	207.9	135.2	69.9	1,632.6
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	4.1	5.4	5.3	13.5	5.2	13.0	11.7	6.4	6.9	9.2	15.6	49.9	5.8	10.4	17.0	9.5	6.5	16.6	7.0	8.7	223.0
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	17.0	16.9	24.6	67.4	115.7	60.6	28.0	28.4	54.6	17.2	36.1	63.7	36.1	20.2	109.5	79.2	27.0	313.4	142.2	77.6	2,215.7
5	LPG	0.7	0.4	1.5	6.2	5.2	2.6	0.8	1.2	7.0	0.3	1.4	2.1	2.7	0.4	2.1	1.5	1.2	8.5	2.9	7.3	56.9
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	19.4	14.9	9.7	20.9	14.1	11.4	12.7	14.7	9.0	32.6	11.0	14.0	7.9	15.8	20.4	12.0	12.4	11.2	8.0	11.6	264.2
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	11.0	14.6	11.2	27.2	19.3	14.2	13.9	15.9	16.9	13.0	17.3	36.1	14.1	10.6	18.0	13.5	13.6	20.8	10.0	18.2	310.6
6	Natural Gas	20.1	19.2	78.4	338.9	302.7	149.4	33.3	41.3	387.4	14.9	92.4	104.9	104.0	19.3	139.4	61.7	75.0	923.9	199.9	991.7	3,339.0
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	199.9	190.1	100.7	217.2	148.0	119.8	133.1	152.8	93.3	131.2	119.6	157.2	82.0	197.0	212.9	179.2	179.4	117.2	63.9	103.5	2,000.9
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	128.9	187.1	177.1	556.4	443.4	299.2	199.4	144.1	514.7	146.6	179.6	249.7	249.0	189.8	378.6	300.3	294.4	712.3	243.9	1,094.7	6,064.6
7	Solid Fuel	32.0	109.3	143.8	1,046.8	979.0	479.0	159.0	398.9	1,069.9	117.7	398.3	544.0	434.0	84.1	371.7	297.7	300.7	1,766.3	479.4	1,499.4	72,077.7
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	32.0	109.3	143.8	1,046.8	979.0	479.0	159.0	398.9	1,069.9	117.7	398.3	544.0	434.0	84.1	371.7	297.7	300.7	1,766.3	479.4	1,499.4	72,077.7
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	32.0	109.3	143.8	1,046.8	979.0	479.0	159.0	398.9	1,069.9	117.7	398.3	544.0	434.0	84.1	371.7	297.7	300.7	1,766.3	479.4	1,499.4	72,077.7
8	Total	890.9	547.6	1,261.9	9,950.1	9,462.2	3,410.9	1,393.6	1,669.3	8,209.5	538.6	2,249.1	3,894.6	3,144.2	611.5	2,709.8	2,021.6	1,495.5	10,999.7	2,499.7	10,929.6	74,593.2
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Household	192.5	270.3	192.5	395.3	281.2	222.3	244.6	277.5	189.8	299.7	214.6	314.1	148.7	295.2	390.9	278.4	236.6	219.4	154.1	225.6	4,669.2
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Subtotal)	793.5	839.8	1,334.4	9,442.8	7,149.3	3,633.1	1,398.4	1,814.8	8,237.3	779.0	2,515.8	4,309.0	3,334.5	699.9	3,147.7	2,451.0	1,827.1	11,079.2	3,029.6	11,818.7	89,798.4

Table 2.A : District wise HC emission quantity (Common, 2018)

Sl. No.	Plant Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Gasoline	19.0	15.4	40.1	262.0	205.4	101.3	49.8	47.1	248.7	14.7	87.4	124.6	96.3	18.6	78.9	57.2	43.6	209.7	78.0	203.2	2,139.8
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	19.0	15.4	40.1	262.0	205.4	101.3	49.8	47.1	248.7	14.7	87.4	124.6	96.3	18.6	78.9	57.2	43.6	209.7	78.0	203.2	2,139.8
2	Motor-vehicle	5.1	1.5	7.7	15.2	17.1	17.1	2.4	4.8	18.2	1.8	7.5	8.6	7.5	2.9	7.2	7.9	3.1	28.4	6.2	27.6	199.1
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	31.4	44.2	29.3	92.8	40.7	39.8	37.8	44.1	28.9	37.7	32.1	30.2	23.8	49.8	60.9	36.9	37.1	33.3	23.9	26.5	746.2
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	36.5	45.7	37.0	78.0	56.8	45.7	40.2	48.7	45.7	39.5	39.6	47.1	31.1	49.3	68.1	43.8	40.2	61.7	30.1	45.1	647.3
3	Coal-OM	29.5	8.5	24.1	90.9	192.3	91.3	13.4	22.6	113.7	7.9	20.0	38.1	44.9	11.0	20.1	24.6	17.9	199.1	34.7	104.5	1,090.1
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	7.9	10.7	7.2	15.5	10.3	6.8	9.9	10.9	9.7	9.4	8.4	11.6	5.9	11.9	19.3	9.0	9.3	6.4	9.0	8.8	199.9
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	37.4	19.2	49.3	107.5	112.7	98.9	23.0	33.6	123.4	17.4	36.5	49.8	50.8	22.5	44.8	53.9	27.2	192.3	44.7	249.3	1,389.0
4	Heavy Oil	9.7	6.0	14.9	40.3	82.5	26.2	12.2	19.1	94.2	9.0	19.4	27.6	22.7	7.4	66.3	64.2	13.2	220.4	101.4	390.9	1,224.4
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	1.7	1.4	1.4	3.6	1.4	3.5	3.1	2.2	1.9	2.6	4.2	12.3	1.5	2.6	4.9	2.5	2.9	2.8	1.9	2.3	56.9
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	10.6	10.1	19.3	43.9	83.9	39.8	15.4	19.4	97.3	6.6	21.6	40.1	24.3	10.1	73.9	69.5	15.7	229.8	103.3	406.9	1,631.1
5	LPG	0.2	0.1	0.4	1.6	1.3	0.8	0.2	0.3	2.0	0.1	0.4	0.9	0.8	0.1	0.6	0.4	0.3	2.4	0.6	0.6	19.9
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	2.5	4.9	2.2	7.0	4.7	3.8	4.2	4.9	3.0	4.2	3.7	4.7	2.6	5.2	6.6	4.0	4.1	3.7	2.7	3.9	94.2
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	3.6	5.0	3.7	8.6	6.2	4.6	4.5	5.2	6.0	4.3	4.6	6.3	3.4	5.3	7.4	4.4	4.5	6.5	3.2	4.0	100.6
6	Medium Oil	2.9	2.3	10.6	48.4	43.2	21.3	4.6	9.9	92.9	2.1	6.9	15.0	20.4	2.4	18.3	13.7	10.7	102.0	82.0	72.9	84.9
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	40.1	56.3	37.8	81.4	54.6	44.9	49.9	97.3	36.0	49.2	59.0	30.7	60.8	79.9	47.0	45.3	44.1	21.5	49.3	49.3	997.7
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	42.9	109.0	48.7	130.2	97.7	66.3	54.7	60.2	64.2	51.4	52.7	74.0	54.2	64.7	103.6	70.8	59.2	120.0	64.3	681.4	2,449.2
7	Spilled Fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	Total	69.4	39.3	112.1	449.4	481.1	232.2	76.6	97.0	497.6	32.6	170.9	214.7	164.9	41.9	220.5	169.3	68.7	799.0	247.7	694.8	3,116.4
	Industrial Naptha Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Industrial Big Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial/Residential	69.4	117.4	78.0	179.2	112.5	84.4	104.6	119.7	73.2	103.0	92.1	146.1	64.3	132.1	167.5	68.4	101.5	92.4	69.0	69.9	2,090.9
	Energy Conservation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	(Sub-total)	143.0	201.3	191.0	629.4	564.7	320.6	181.7	316.6	669.2	139.8	224.3	340.8	258.6	170.6	340.7	247.9	180.3	909.1	313.7	7,111.6	8,051.2

Table 3.5 : District wise SPM emission quantity (Common, 2010)

Sl. No.	Category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Chennai	2.9	2.1	9.5	34.2	2.0	6.6	34.2	2.0	6.6	17.1	13.1	17.1	13.1	2.6	19.9	7.9	6.0	49.8	19.7	49.3	706.4
2	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Coimbatore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Thanjavur	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Subtotal	2.9	2.1	9.5	34.2	2.0	6.6	34.2	2.0	6.6	17.1	13.1	17.1	13.1	2.6	19.9	7.9	6.0	49.8	19.7	49.3	706.4
7	Chennai	169.9	10.8	54.8	106.4	172.7	99.2	167.2	34.1	133.1	124.0	53.4	52.5	53.2	17.6	51.1	54.1	21.9	201.9	44.9	196.0	1,232.1
8	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Coimbatore	52.8	85.3	58.6	126.5	85.2	67.2	75.8	46.8	53.9	75.5	54.2	78.5	47.1	92.6	121.6	74.2	69.9	47.8	69.9	47.8	719.1
10	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Thanjavur	90.4	80.2	113.4	233.9	207.0	193.4	87.4	179.9	167.0	161.0	117.9	136.1	100.4	111.4	172.9	177.8	88.2	206.8	91.9	207.0	2,889.5
12	Subtotal	169.9	10.8	54.8	106.4	172.7	99.2	167.2	34.1	133.1	124.0	53.4	52.5	53.2	17.6	51.1	54.1	21.9	201.9	44.9	196.0	1,232.1
13	Chennai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	Coimbatore	105.4	148.7	86.2	213.1	141.8	118.5	131.1	149.8	91.8	138.0	118.8	190.2	80.6	159.1	209.6	173.2	127.7	118.8	82.8	121.4	2,650.2
16	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Thanjavur	274.1	204.2	379.8	677.8	651.2	581.1	228.1	314.9	649.0	166.6	332.9	436.7	408.2	258.2	528.1	433.2	286.8	1,371.8	382.3	1,665.4	10,870.4
18	Subtotal	105.4	148.7	86.2	213.1	141.8	118.5	131.1	149.8	91.8	138.0	118.8	190.2	80.6	159.1	209.6	173.2	127.7	118.8	82.8	121.4	2,650.2
19	Chennai	72.2	110.9	300.2	614.3	792.8	91.1	370.2	478.3	44.9	114.3	206.4	169.1	169.1	54.9	493.0	477.5	98.0	1,993.0	754.5	2,629.0	9,119.0
20	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	Coimbatore	19.3	28.6	25.9	63.6	29.1	91.4	59.4	39.7	28.3	43.8	73.8	72.1	27.4	48.2	60.6	45.1	45.0	50.4	33.2	41.3	1,065.5
22	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	Thanjavur	81.6	80.8	135.5	304.0	639.4	324.2	146.5	159.9	917.2	64.7	205.1	477.6	186.8	104.1	997.0	980.8	427.9	1,740.7	788.1	4,026.3	11,774.6
24	Subtotal	72.2	110.9	300.2	614.3	792.8	91.1	370.2	478.3	44.9	114.3	206.4	169.1	169.1	54.9	493.0	477.5	98.0	1,993.0	754.5	2,629.0	9,119.0
25	Chennai	0.7	0.4	1.7	7.2	6.0	3.2	0.9	1.3	6.0	0.4	1.6	2.4	3.1	0.9	2.4	1.7	1.4	9.8	2.3	0.4	69.4
26	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	Coimbatore	9.2	12.8	8.6	19.9	12.3	10.1	11.8	13.1	8.0	11.2	9.7	14.4	7.9	13.8	18.1	10.7	11.0	10.0	7.1	10.5	229.9
28	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	Thanjavur	10.0	13.4	10.4	25.8	18.5	13.3	12.2	14.4	15.9	11.6	11.3	14.8	10.1	14.3	20.9	12.4	12.4	30.9	9.4	19.9	790.7
30	Subtotal	0.7	0.4	1.7	7.2	6.0	3.2	0.9	1.3	6.0	0.4	1.6	2.4	3.1	0.9	2.4	1.7	1.4	9.8	2.3	0.4	69.4
31	Chennai	17.3	13.9	65.5	290.5	799.5	128.0	28.5	35.4	116.9	12.8	53.5	69.9	149.6	15.2	110.9	70.9	64.3	491.9	137.1	507.2	2,448.2
32	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	Coimbatore	99.5	131.9	88.1	189.9	179.9	104.6	119.4	133.7	81.6	114.8	192.1	137.6	71.7	141.6	199.5	109.8	113.2	192.8	73.4	104.0	2,372.9
34	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	Thanjavur	110.7	103.0	153.8	482.5	388.9	232.9	148.0	189.1	442.6	128.0	159.0	227.5	212.3	109.6	329.3	299.6	177.5	617.8	210.5	899.7	5,974.3
36	Subtotal	17.3	13.9	65.5	290.5	799.5	128.0	28.5	35.4	116.9	12.8	53.5	69.9	149.6	15.2	110.9	70.9	64.3	491.9	137.1	507.2	2,448.2
37	Chennai	13.9	45.6	62.6	847.0	429.2	204.0	94.8	159.2	475.7	40.0	172.5	204.6	186.9	36.9	181.6	170.6	143.9	778.4	207.4	829.8	5,226.8
38	Madurai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	Coimbatore	313.1	192.8	573.5	2,343.4	2,104.8	1,441.4	308.1	521.0	2,220.8	178.4	620.9	849.2	849.2	205.7	1,112.0	1,074.0	493.1	4,395.5	1,436.9	5,991.9	29,089.9
40	Trichy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	Thanjavur	209.2	404.9	273.9	819.0	391.6	362.0	349.9	425.1	209.3	374.3	365.7	606.9	239.8	497.4	617.0	366.4	329.6	349.8	244.2	352.3	7,749.1
42	Subtotal	13.9	45.6	62.6	847.0	429.2	204.0	94.8	159.2	475.7	40.0	172.5	204.6	186.9	36.9	181.6	170.6	143.9	778.4	207.4	829.8	5,226.8
43	Chennai	697.3	671.4	854.7	7,695.8	7,587.3	1,507.4	699.0	947.0	2,623.6	654.0	1,004.8	1,048.6	1,128.5	872.7	1,815.6	1,631.3	433.7	4,833.0	1,480.2	7,773.3	37,031.4

Table 3.6 : District wise TOTAL emission quantity (Common, 2010)

Sl. No.	District	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
1	Chandigarh	530.6	472.2	1,116.6	7,092.3	2,813.1	1,210.2	1,300.5	8,911.5	490.6	1,074.1	3,491.5	2,467.7	517.1	1,011.6	1,599.9	1,200.3	2,493.6	2,197.2	6,197.3	6,197.3	6,197.3	
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	530.6	472.2	1,116.6	7,092.3	2,813.1	1,210.2	1,300.5	8,911.5	490.6	1,074.1	3,491.5	2,467.7	517.1	1,011.6	1,599.9	1,200.3	2,493.6	2,197.2	6,197.3	6,197.3	6,197.3	
2	Haryana	191.1	39.6	749.1	566.7	975.1	490.0	97.4	176.2	96.8	93.5	279.8	378.9	92.6	269.7	209.8	113.5	1,064.1	229.6	1,073.0	1,073.0	1,073.0	
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	191.1	39.6	749.1	566.7	975.1	490.0	97.4	176.2	96.8	93.5	279.8	378.9	92.6	269.7	209.8	113.5	1,064.1	229.6	1,073.0	1,073.0	1,073.0	
3	Goa	729.9	390.2	1,183.7	2,815.7	3,179.0	1,804.5	417.2	707.0	3,479.4	244.0	930.8	1,163.5	1,368.8	340.5	1,214.1	1,208.8	927.8	1,381.5	1,203.2	1,311.9	1,311.9	1,311.9
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	729.9	390.2	1,183.7	2,815.7	3,179.0	1,804.5	417.2	707.0	3,479.4	244.0	930.8	1,163.5	1,368.8	340.5	1,214.1	1,208.8	927.8	1,381.5	1,203.2	1,311.9	1,311.9	
4	Haryana	1,846.9	1,404.2	2,519.2	9,529.0	13,999.0	5,984.3	2,078.9	2,737.2	10,892.4	1,022.2	2,992.5	4,678.4	3,691.7	1,290.4	11,491.4	10,879.6	2,200.6	37,671.0	17,146.7	96,694.2	202,670.9	202,670.9
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	1,846.9	1,404.2	2,519.2	9,529.0	13,999.0	5,984.3	2,078.9	2,737.2	10,892.4	1,022.2	2,992.5	4,678.4	3,691.7	1,290.4	11,491.4	10,879.6	2,200.6	37,671.0	17,146.7	96,694.2	202,670.9	
5	Uttar Pradesh	12.0	6.5	78.0	116.3	98.0	34.9	15.2	21.6	128.0	9.1	78.2	39.9	9.5	7.0	36.2	22.3	21.8	156.8	34.9	124.2	124.2	124.2
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	12.0	6.5	78.0	116.3	98.0	34.9	15.2	21.6	128.0	9.1	78.2	39.9	9.5	7.0	36.2	22.3	21.8	156.8	34.9	124.2	124.2	
6	Natural Gas	246.7	198.3	939.2	4,124.0	3,711.2	1,631.1	498.2	509.4	4,504.2	182.6	734.8	1,249.8	2,019.8	292.6	1,449.9	1,001.8	919.6	7,024.3	1,991.0	7,263.5	40,898.9	40,898.9
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	246.7	198.3	939.2	4,124.0	3,711.2	1,631.1	498.2	509.4	4,504.2	182.6	734.8	1,249.8	2,019.8	292.6	1,449.9	1,001.8	919.6	7,024.3	1,991.0	7,263.5	40,898.9	
7	South India	914.6	1,285.2	692.1	1,858.8	1,241.8	1,026.2	1,139.2	1,308.4	736.7	1,173.8	988.7	1,349.9	701.6	1,382.2	1,625.5	1,072.7	1,107.6	1,009.6	719.5	1,057.3	2,180.4	2,180.4
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	914.6	1,285.2	692.1	1,858.8	1,241.8	1,026.2	1,139.2	1,308.4	736.7	1,173.8	988.7	1,349.9	701.6	1,382.2	1,625.5	1,072.7	1,107.6	1,009.6	719.5	1,057.3	2,180.4	
8	Total	3,668.4	2,879.7	6,079.7	23,811.6	30,449.4	16,913.2	5,214.6	7,724.2	33,820.7	2,643.2	8,969.7	14,520.2	12,492.7	2,842.9	16,881.5	16,684.3	7,146.9	70,652.3	25,807.7	109,329.9	475,290.6	475,290.6
	Industrial/Non-Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Industrial/Point Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Commercial/Institutional	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Energy Consumption	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	(Sub-total)	3,668.4	2,879.7	6,079.7	23,811.6	30,449.4	16,913.2	5,214.6	7,724.2	2,643.2	8,969.7	14,520.2	12,492.7	2,842.9	16,881.5	16,684.3	7,146.9	70,652.3	25,807.7	109,329.9	475,290.6	475,290.6	

Table 4.0 : District wise TOTAL emission quantity by combustion & evaporation (Common, 2010)

Emission	Year																				Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1 Combustion	2399.2	2807.6	3649.2	16,988.7	18,699.2	8,530.6	3,831.2	4,983.0	14,984.4	2,951.6	3,902.6	10,979.3	5,276.4	2,872.6	13,666.6	21,644.3	4,398.1	40,949.2	17,094.1	89,679.6	787,021.6
SO _x	1,983.9	2,735.5	3,078.2	11,179.2	9,679.9	5,495.3	2,498.9	3,249.3	10,990.1	1,893.2	3,419.4	4,933.6	4,806.6	2,367.8	8,543.3	9,987.9	3,143.6	17,812.1	6,693.2	28,500.4	149,290.4
NO _x	700.3	839.8	1,530.4	9,449.6	7,149.2	3,035.3	1,606.4	1,971.6	8,273.3	723.0	2,515.6	4,399.0	3,334.5	970.9	3,147.2	2,451.0	1,892.1	10,920.2	3,076.6	11,810.2	69,708.4
CO	143.9	301.3	191.0	670.1	944.7	229.8	181.2	218.9	998.2	176.6	224.3	349.8	299.0	170.6	396.7	562.0	190.3	808.1	313.7	2,111.9	6,691.2
HC	607.2	621.5	854.7	2,862.6	2,387.2	1,501.4	939.0	947.0	2,673.6	954.0	1,004.8	1,498.6	1,128.6	672.7	8,815.9	1,631.3	835.7	4,633.9	1,990.2	7,773.3	37,031.4
SPM	5,684.4	7,044.6	9,305.6	39,103.0	38,844.3	10,409.9	8,777.6	11,348.6	37,234.4	5,907.6	12,866.7	25,811.5	15,017.0	7,004.7	25,497.3	36,797.5	10,308.9	75,115.8	27,666.9	147,666.1	649,761.1
(Sub-total)																					
2 Evaporation/Leakage																					
SO _x																					
NO _x																					
CO																					
HC																					
SPM																					
(Sub-total)																					
3 Total Emission																					
SO _x	2,399.2	2,807.6	3,649.2	14,988.7	18,699.2	8,530.6	3,831.2	4,983.0	14,984.4	2,951.6	3,902.6	10,979.3	5,276.4	2,872.6	13,666.6	21,644.3	4,398.1	40,949.2	17,094.1	89,679.6	787,021.6
NO _x	1,983.9	2,735.5	3,078.2	11,179.2	9,679.9	5,495.3	2,498.9	3,249.3	10,990.1	1,893.2	3,419.4	4,933.6	4,806.6	2,367.8	8,543.3	9,987.9	3,143.6	17,812.1	6,693.2	28,500.4	149,290.4
CO	700.3	839.8	1,530.4	9,449.6	7,149.2	3,035.3	1,606.4	1,971.6	8,273.3	723.0	2,515.6	4,399.0	3,334.5	970.9	3,147.2	2,451.0	1,892.1	10,920.2	3,076.6	11,810.2	69,708.4
HC	143.9	301.3	191.0	670.1	944.7	229.8	181.2	218.9	998.2	176.6	224.3	349.8	299.0	170.6	396.7	562.0	190.3	808.1	313.7	2,111.9	6,691.2
SPM	6,072.2	7,666.1	9,305.6	39,103.0	38,844.3	10,409.9	8,777.6	11,348.6	37,234.4	5,907.6	12,866.7	25,811.5	15,017.0	7,004.7	25,497.3	36,797.5	10,308.9	75,115.8	27,666.9	147,666.1	649,761.1
(Total)	6,599.1	7,839.6	9,017.6	40,049.9	37,900.6	20,849.2	9,609.2	11,785.6	38,168.0	6,539.5	14,136.7	29,407.2	19,581.6	7,641.9	29,690.0	38,012.4	10,644.5	76,277.0	28,226.2	149,608.9	567,137.0

Table 2-0-1: Fuel consumption of big factories (> 100 personnel) (Common, 2010)

No	Industrial Code	District	Location		Fuel Consumption by Factory					Total Fuel Consumption (10 ³ l/decad)	
			Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ l/decad)	Heavy Oil (10 ³ l/decad)	Gas Oil (10 ³ l/decad)	Kerosene (10 ³ l/decad)	Gasoline (10 ³ l/decad)		LPG (10 ³ l/decad)
1	3120	4	51/27/43	35/45/31	2,425,525	0	1,268,376	0	0	0	3,693,901
2	3130	4	51/29/54	35/44/05	690,244	0	2,205,780	0	0	80,831	2,976,855
3	3113	9	51/18/40	35/42/45	15,827,312	0	0	0	0	0	15,827,312
4	3132	9	51/18/56	35/49/29	4,575,824	0	3,505,690	0	0	0	8,081,514
5	3132	10	51/21/45	35/42/00	1,663,414	0	87,642	0	0	0	1,751,056
6	3119	10	51/22/24	35/42/00	42,278	0	262,627	0	0	74,370	379,275
7	3140	11	51/23/10	35/40/28	2,141,535	8,194,554	207,864	0	15,778	0	10,554,727
8	3115	16	51/25/10	35/32/48	54,913,802	0	2,678,267	0	0	0	57,592,069
9	3129	16	51/26/20	35/43/00	5,455	0	17,528	0	0	0	22,983
10	3130	16	51/17/04	35/43/24	1,974,833	0	8,310,242	0	0	0	10,285,075
11	3119	18	51/16/08	35/49/17	30,569	0	0	0	0	0	30,569
12	3112	18	51/18/10	35/42/28	30,237,643	0	7,524,007	0	0	0	37,761,650
(Total)	31		(10 ³ l/decad)	(10 ³ l/decad)	121,688,209	8,194,554	19,179,533	0	15,778	155,001	149,138,575
13	3240	4	51/33/00	35/43/54	78,131	0	0	0	0	0	78,131
14	3211	9	51/18/58	35/40/24	1,272,230	1,427,481	2,030,211	0	0	0	4,729,922
15	3240	9	51/18/54	35/42/43	10,021,304	0	310,133	0	0	0	10,331,437
16	3211	9	51/18/58	35/43/47	1,574,203	0	1,540,456	0	0	0	3,114,659
17	3211	18	51/18/18	35/36/50	4,222,317	203,972	244,708	0	0	83,754	4,754,749
18	3211	20	51/23/10	35/37/04	18,314,838	0	3,670,815	0	0	0	21,985,653
(Total)	32		(10 ³ l/decad)	(10 ³ l/decad)	33,481,044	1,631,344	7,875,155	0	0	83,754	43,071,297
19	3313	2	51/29/40	35/42/11	75,435	0	241,063	0	0	0	316,498
20	3320	9	51/13/20	35/42/45	635,395	0	49,560	0	0	0	684,955
21	3313	16	51/17/20	35/42/24	120,317	0	413,251	0	0	0	533,568
(Total)	33		(10 ³ l/decad)	(10 ³ l/decad)	832,147	0	703,874	0	0	0	1,536,021
22	3418	16	51/17/50	35/49/24	2,725,709	8,695,173	0	0	0	0	11,420,882
(Total)	34		(10 ³ l/decad)	(10 ³ l/decad)	2,725,709	8,695,173	0	0	0	0	11,420,882
23	3522	4	51/24/58	35/43/23	2,142,258	0	0	0	0	0	2,142,258
24	3520	9	51/23/10	35/42/28	3,365,898	0	41,227	0	0	0	3,407,125
25	3511	9	51/13/29	35/41/54	2,853,883	0	0	0	0	0	2,853,883
26	3529	9	51/18/54	35/42/48	2,018,356	0	0	0	0	0	2,018,356
27	3522	9	51/13/50	35/42/28	268,080	0	2,643	0	0	0	270,723
28	3521	9	51/14/54	35/42/22	314,823	0	0	0	0	0	314,823
29	3522	9	51/07/45	35/44/05	351,171	1,030,664	35,540	0	0	0	1,417,375
30	3520	9	51/17/20	35/40/45	19,100,823	0	7,791,823	0	0	0	26,892,646
31	3522	9	51/08/58	35/44/10	6,187,250	0	264,321	0	0	0	6,451,571
32	3521	9	51/18/44	35/42/24	14,618,309	1,137,265	78,787	0	0	0	15,834,361
33	3529	19	51/17/28	35/40/00	183,836	0	51,178	0	0	0	235,014
34	3523	19	51/14/04	35/42/24	2,728,484	0	0	0	0	0	2,728,484
35	3522	18	51/18/24	35/42/20	426,823	0	3,822	0	0	0	430,645
36	3541	18	51/10/14	35/43/00	280,017	0	37,673	0	0	0	317,690
37	3522	18	51/17/28	35/40/24	84,441	0	0	0	0	0	84,441
38	3550	18	51/08/10	35/44/18	1,471,991	0	2,523,351	0	0	0	4,005,342
39	3523	18	51/10/20	35/42/18	0	0	0	0	0	0	0
40	3530	20	51/25/20	35/34/11	8,332,424	20,384,736	5,134,641	0	0	75,810	28,937,611
(Total)	35		(10 ³ l/decad)	(10 ³ l/decad)	59,765,375	22,552,705	15,983,195	0	0	75,810	98,377,085
41	3610	9			1,418,582	0	2,514	0	0	0	1,421,096
42	3620	9	51/15/44	35/40/13	51,711,404	273,172	256,412	0	0	0	52,240,988
43	3622	15			41,347,803	0	0	0	0	0	41,347,803
44	3622	15	51/29/58	35/36/48	73,874,720	8,379,500	0	0	0	0	82,254,220
45	3698	20	51/25/20	35/32/28	64,105,892	0	3,289,019	0	0	0	67,394,911
(Total)	36		(10 ³ l/decad)	(10 ³ l/decad)	222,556,261	8,652,672	3,347,645	0	0	0	234,556,578
46	3710	9	51/29/54	35/42/28	100,779	0	322,042	0	0	0	422,821
47	3710	9	51/06/58	35/44/23	382,781	0	1,158,355	0	0	0	1,541,136
48	3710	18	51/20/50	35/43/58	4,129,599	0	0,051,076	0	0	0	4,180,675
49	3710	18	51/18/18	35/40/02	542,858	0	0	0	0	0	542,858
50	3710	18	51/08/24	35/44/07	7,840,442	0	181,022	0	0	0	8,021,464
51	3710	19	51/18/48	35/34/56	0	0	0	0	0	0	0
(Total)	37		(10 ³ l/decad)	(10 ³ l/decad)	13,078,959	0	9,693,495	0	0	0	22,772,454
52	3811	4	51/24/24	35/43/44	339,831	0	0	0	0	0	339,831
53	3819	4	51/24/40	35/44/00	195,906	0	679,223	0	0	0	875,129
54	3827	4	51/24/96	35/42/24	2,890,102	0	0	0	0	0	2,890,102
55	3819	5	51/18/18	35/42/11	2,193,556	0	214,506	0	0	0	2,408,062
56	3843	9	51/13/10	35/43/14	817,990	0	328,812	0	0	0	1,146,802
57	3851	9	51/17/20	35/42/40	407,240	0	95,528	0	0	0	502,768
58	3843	9	51/11/18	35/43/28	6,152,549	0	683,782	7,150	0	0	6,843,481
59	3828	9	51/17/56	35/43/45	5,911,579	0	214,506	0	0	0	6,126,085
60	3827	8	51/18/00	35/42/20	8,225,173	32,128	429,015	0	0	0	8,686,316
61	3843	8	51/19/20	35/43/26	17,819,370	0	1,258,445	0	1,144,871	0	19,222,686
62	3843	8	51/17/02	35/42/48	14,414,818	0	0	0	0	0	14,414,818
63	3827	14	51/24/48	35/41/31	39,147,632	0	0	0	0	0	39,147,632
64	3819	15	51/28/20	35/38/45	369,187	0	1,179,792	0	0	0	1,548,979
65	3830	15	51/28/00	35/47/28	6,832,818	0	11,819,186	0	0	0	18,652,004
66	3839	18	51/05/18	35/41/32	50,068	0	87,519	0	0	0	137,587
67	3826	18	51/18/00	35/40/13	45,981	0	148,938	0	0	5,457,688	154,557
68	3843	18	51/17/48	35/40/08	402,418	0	0	0	0	0	402,418
69	3839	18	51/13/64	35/42/13	174,806	0	0	0	0	0	174,806
70	3819	18	51/10/48	35/42/08	1,655,430	3,610,381	0	0	0	0	5,265,811
71	3827	18	51/15/52	35/42/14	814,237	0	1,287	0	0	0	815,524
72	3843	18	51/05/00	35/41/48	5,820,892	0	321,782	0	0	0	6,142,674
73	3840	18	51/16/56	35/37/28	5,687,869	0	1,440,437	0	0	0	7,128,306
(Total)	38		(10 ³ l/decad)	(10 ³ l/decad)	121,648,158	3,142,538	19,081,821	7,150	1,144,871	5,457,688	149,475,126
(Grand Total)			(10 ³ l/decad)	(10 ³ l/decad)	566,512,563	48,669,026	75,725,046	7,150	1,180,749	5,772,392	692,487,917

No	Name	District	Longitude (DMS)	Latitude (DMS)	Natural Gas (10 ³ l/decad)	Heavy Oil (10 ³ l/decad)	Gas Oil (10 ³ l/decad)	Kerosene (10 ³ l/decad)	Gasoline (10 ³ l/decad)	LPG (10 ³ l/decad)	Total Fuel Consumption (10 ³ l/decad)
1	Tehran Refinery	2008	51/25/40	35/32/40	978,724,871	363,527,817	16,490,182	0	0	0	1,358,742,870
2	Power Plant				0	0	0	0	0	0	0
2.1	- Bafq	18	51/25/40	35/32/40	267,728,306	154,058,064	8,823,894	0	0	0	430,610,264
2.2	- Fereidun	2	51/21/70	35/32/24	72,258,733	0	144,738	0	0	0	72,403,471
2.3	- Ray	2008	51/24/50	35/31/20	488,437,832	17,524,011	133,588,601	0	0	0	800,550,444
(Total)			(10 ³ l/decad)	(10 ³ l/decad)	1,467,211,604	517,524,011	133,588,601	0	0	0	2,118,324,216

Table 2.1: SOx emission of big factories (Continued, 2010)

No	Industrial Code	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3129	4	512740	354151	0.1	0.0	1.7	0.0	0.0	0.0	0.1
2	3130	4	512954	354403	0.0	0.0	2.9	0.0	0.0	0.0	0.1
3	3112	9	512840	354043	0.7	0.0	0.0	0.0	0.0	0.0	0.7
4	3130	9	511908	354029	0.4	0.0	4.3	0.0	0.0	0.0	4.7
5	3130	10	512048	354200	0.1	0.0	0.1	0.0	0.0	0.0	0.2
6	3119	10	512224	354200	0.0	0.0	0.3	0.0	0.0	0.0	0.3
7	3140	11	512310	354029	0.1	318.0	0.4	0.0	0.0	0.0	318.5
8	3119	16	512570	353248	0.3	0.0	3.4	0.0	0.0	0.0	3.7
9	3129	16	512920	354000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	511704	354524	0.1	0.0	0.0	0.0	0.0	0.0	0.1
11	3119	18	511608	354037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3112	19	511810	354079	1.2	0.0	3.2	0.0	0.0	0.0	4.4
(Total)	31				2.8	318.0	7.4	0.0	0.0	0.0	328.2
13	3240	4	512360	354354	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	511808	354024	0.1	73.5	2.0	0.0	0.0	0.0	76.6
15	3240	9	511454	354249	0.4	0.0	0.4	0.0	0.0	0.0	0.8
16	3211	9	510858	354347	0.1	0.0	2.0	0.0	0.0	0.0	2.1
17	3211	18	511018	354058	0.2	10.5	0.2	0.0	0.0	0.0	11.1
18	3211	20	512910	353704	0.7	0.0	4.7	0.0	0.0	0.0	5.4
(Total)	32				1.5	84.0	10.1	0.0	0.0	0.0	95.6
19	3313	2	512040	354211	0.0	0.0	0.3	0.0	0.0	0.0	0.3
20	3320	9	511320	354240	0.0	0.0	0.1	0.0	0.0	0.0	0.1
21	3313	18	510720	354024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	33				0.0	0.0	0.4	0.0	0.0	0.0	0.4
22	3419	11	511760	354524	0.1	344.1	0.0	0.0	0.0	0.0	344.2
(Total)	34				0.1	344.1	0.0	0.0	0.0	0.0	344.2
23	3522	4	512420	354222	0.1	0.0	0.0	0.0	0.0	0.0	0.1
24	3522	9	512210	354259	0.1	0.0	0.1	0.0	0.0	0.0	0.2
25	3521	9	511320	354304	0.1	0.0	0.0	0.0	0.0	0.0	0.1
26	3554	9	511854	354248	0.1	0.0	0.0	0.0	0.0	0.0	0.1
27	3522	9	511950	354238	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3521	9	511454	354222	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3552	9	510740	354406	0.0	53.1	0.0	0.0	0.0	0.0	53.1
30	3523	9	511720	354048	0.4	0.0	19.1	0.0	0.0	0.0	19.5
31	3522	9	510658	354470	0.4	0.0	0.4	0.0	0.0	0.0	0.8
32	3541	9	511844	354224	0.0	58.8	0.1	0.0	0.0	0.0	58.9
33	3529	18	511728	354000	0.0	0.0	0.1	0.0	0.0	0.0	0.1
34	3522	18	511404	354242	0.1	0.0	0.0	0.0	0.0	0.0	0.1
35	3522	18	511824	354020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	3541	18	511914	354230	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	3522	18	511728	354024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	3530	18	510810	354478	0.0	0.0	3.3	0.0	0.0	0.0	3.3
39	3523	18	511030	354218	0.1	0.0	0.0	0.0	0.0	0.0	0.1
40	3530	20	512520	353411	0.3	1,048.8	0.6	0.0	0.0	0.0	1,049.7
(Total)	35	Dezfa Refinery			0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	35				2.5	1,161.4	20.7	0.0	0.0	0.0	1,184.7
41	3610	8	511844	354313	0.1	0.0	0.0	0.0	0.0	0.0	0.1
42	3620	9	511844	354313	2.1	14.1	0.3	0.0	0.0	0.0	16.5
43	3622	15	512058	353518	1.7	0.0	0.0	0.0	0.0	0.0	1.7
44	3621	18	512058	353518	3.0	431.5	0.0	0.0	0.0	0.0	434.5
45	3620	20	512520	353524	2.8	0.0	4.0	0.0	0.0	0.0	6.8
(Total)	36				9.7	445.6	4.3	0.0	0.0	0.0	459.6
46	3710	8	510524	354368	0.0	0.0	0.1	0.0	0.0	0.0	0.1
47	3710	9	510828	354424	0.0	0.0	1.5	0.0	0.0	0.0	1.5
48	3710	10	512058	353524	0.2	0.0	10.4	0.0	0.0	0.0	10.6
49	3710	18	511819	354024	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3710	18	511824	353621	0.1	0.0	0.0	0.0	0.0	0.0	0.1
51	3710	19	511848	353534	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	37				0.3	0.0	12.0	0.0	0.0	0.0	12.3
52	3813	4	512424	354344	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3819	4	512420	354400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	3827	4	512420	354324	0.1	0.0	0.0	0.0	0.0	0.0	0.1
55	3819	5	511810	354211	0.1	0.0	0.3	0.0	0.0	0.0	0.4
56	3843	9	512310	354314	0.0	0.0	0.4	0.0	0.0	0.0	0.4
57	3851	9	511720	354040	0.0	0.0	0.1	0.0	0.0	0.0	0.1
58	3843	9	511178	354328	0.3	0.0	1.2	0.0	0.0	0.0	1.5
59	3826	9	512258	354245	0.2	0.0	0.3	0.0	0.0	0.0	0.5
60	3827	9	511800	354226	0.4	1.7	0.0	0.0	0.0	0.0	2.1
61	3843	9	511020	354334	0.7	0.0	1.8	0.0	1.5	0.0	3.8
62	3843	9	511202	354248	0.8	0.0	0.0	0.0	0.0	0.0	0.8
63	3827	14	512840	354331	1.6	0.0	0.0	0.0	0.0	0.0	1.6
64	3818	15	511820	354045	0.0	0.0	1.5	0.0	0.0	0.0	1.5
65	3826	15	512858	354728	0.4	0.0	19.0	0.0	0.0	0.0	19.4
66	3838	15	510518	354432	0.0	0.0	0.1	0.0	0.0	0.0	0.1
67	3824	18	511820	354013	0.0	0.0	0.2	0.0	0.0	0.0	0.2
68	3843	18	511745	353806	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3836	18	511328	354213	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	511048	354208	0.1	160.2	0.0	0.0	0.0	0.0	160.3
71	3827	19	511852	354014	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3843	18	510500	354448	0.2	0.0	0.4	0.0	0.0	0.0	0.6
73	3843	18	511858	353728	0.2	0.0	2.1	0.0	0.0	0.0	2.3
(Total)	38				6.0	161.8	24.7	0.0	1.5	0.0	202.2
(Grand Total)					24.1	2318.7	81.0	0.0	1.5	0.0	2480.3

Table 2.1: SOx emission of big factories (Continued, 2010)

No	Name	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Tehran Refinery	2008	512940	354150	25.7	24,182.1	21.3	0.0	0.0	0.0	24,218.3
2	Power Plant				33.7	10,242.4	151.2	0.0	0.0	0.0	10,427.3
3	- Brest	18	512540	354045	11.0	10,242.4	11.4	0.0	0.0	0.0	10,264.8
4	- Farouzi	2	512110	354324	3.0	0.0	0.2	0.0	0.0	0.0	3.2
5	- Kari	2008	512430	354120	10.7	0.0	139.0	0.0	0.0	0.0	149.7
(Total)					80.4	34,411.9	172.8	0.0	0.0	0.0	34,643.3

Table 2.2 : NOx emission of big factories (Common, 2010)

NO	Industrial Code	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3129	4	51/27/40	35/45/31	7.0	0.0	7.9	0.0	0.0	0.0	14.9
2	3130	4	51/28/54	35/44/38	2.0	0.0	13.5	0.0	0.0	0.0	15.5
3	3112	8	51/18/40	35/40/45	48.9	0.0	0.0	0.0	0.0	0.0	48.9
4	3130	8	51/18/08	35/40/29	24.9	0.0	21.5	0.0	0.0	0.0	46.4
5	3130	10	51/21/40	35/42/00	4.8	0.0	0.5	0.0	0.0	0.0	5.4
6	3119	10	51/22/24	35/42/00	0.2	0.0	1.6	0.0	0.0	0.0	2.0
7	3140	11	51/23/16	35/40/26	8.2	42.7	1.6	0.0	0.1	0.0	50.8
8	3115	18	51/25/10	35/32/48	186.4	0.0	18.1	0.0	0.0	0.0	181.5
9	3129	18	51/20/20	35/40/00	0.0	0.0	0.1	0.0	0.0	0.0	0.1
10	3130	18	51/17/04	35/45/24	5.7	0.0	38.7	0.0	0.0	0.0	44.4
11	3119	18	51/16/08	35/40/37	1.0	0.0	0.0	0.0	0.0	0.0	1.0
12	3112	18	51/15/10	35/40/29	87.9	0.0	15.5	0.0	0.0	0.0	103.3
(Total)		31			354.1	42.7	117.2	0.0	0.1	0.0	514.4
13	3245	4	51/33/60	35/45/24	0.2	0.0	0.0	0.0	0.0	0.0	0.2
14	3211	8	51/18/08	35/40/24	3.7	8.8	12.5	0.0	0.0	0.0	25.0
15	3240	8	51/14/54	35/42/43	29.1	0.0	1.9	0.0	0.0	0.0	31.0
16	3211	8	51/06/58	35/43/47	4.8	0.0	9.4	0.0	0.0	0.0	14.0
17	3211	18	51/16/18	35/38/56	12.3	1.4	1.5	0.0	0.0	0.0	15.3
18	3211	20	51/20/18	35/57/04	47.4	0.0	22.5	0.0	0.0	0.0	69.9
(Total)		37			97.3	11.2	47.6	0.0	0.0	0.0	156.1
19	3313	2	51/29/40	35/42/11	0.2	0.0	1.5	0.0	0.0	0.0	1.7
20	3320	8	51/13/20	35/42/40	1.8	0.0	0.3	0.0	0.0	0.0	2.2
21	3313	16	51/17/20	35/40/34	0.4	0.0	2.5	0.0	0.0	0.0	2.9
(Total)		35			2.4	0.0	4.3	0.0	0.0	0.0	6.8
22	3419	18	51/17/50	35/49/24	7.8	48.2	0.0	0.0	0.0	0.0	54.1
(Total)		34			7.8	48.2	0.0	0.0	0.0	0.0	54.1
23	3532	4	51/24/39	35/43/23	8.2	0.0	0.0	0.0	0.0	0.0	8.2
24	3532	8	51/12/10	35/42/59	9.8	0.0	0.3	0.0	0.0	0.0	10.0
25	3521	9	51/13/28	35/43/04	7.7	0.0	0.0	0.0	0.0	0.0	7.7
26	3539	9	51/14/54	35/42/48	5.9	0.0	0.0	0.0	0.0	0.0	5.9
27	3532	9	51/13/50	35/43/38	2.2	0.0	0.0	0.0	0.0	0.0	2.2
28	3521	9	51/14/54	35/42/22	0.9	0.0	0.0	0.0	0.0	0.0	0.9
29	3532	9	51/07/40	35/44/56	1.9	7.1	0.2	0.0	0.0	0.0	8.3
30	3523	9	51/17/20	35/49/45	29.3	0.0	47.7	0.0	0.0	0.0	77.1
31	3522	9	51/04/58	35/44/10	26.7	0.0	1.7	0.0	0.0	0.0	28.4
32	3551	8	51/19/44	35/42/24	42.5	7.8	0.5	0.0	0.0	0.0	50.8
33	3528	18	51/17/28	35/40/20	0.5	0.0	0.3	0.0	0.0	0.0	0.8
34	3523	18	51/14/04	35/42/42	7.9	0.0	0.0	0.0	0.0	0.0	7.9
35	3522	18	51/18/24	35/40/20	1.2	0.0	0.0	0.0	0.0	0.0	1.3
36	3541	18	51/10/18	35/43/20	0.8	0.0	0.2	0.0	0.0	0.0	1.0
37	3522	18	51/17/28	35/40/24	2.6	0.0	0.0	0.0	0.0	0.0	2.6
38	3530	18	51/09/10	35/44/18	4.3	0.0	13.5	0.0	0.0	0.0	19.7
39	3529	18	51/10/20	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3539	20	51/25/20	35/34/11	24.2	143.5	31.3	0.0	0.0	0.0	199.0
(Total)	Debra Tehran Refinery	35			173.7	155.5	87.9	0.0	0.0	0.0	417.1
41	3610	8			4.1	0.0	0.0	0.0	0.0	0.0	4.1
42	3620	8	51/18/44	35/40/13	150.2	1.9	1.8	0.0	0.0	0.0	153.7
43	3699	15			120.1	0.0	0.0	0.0	0.0	0.0	120.1
44	3692	15	51/26/06	35/38/48	214.9	57.8	0.0	0.0	0.0	0.0	272.7
45	3699	20	51/25/20	35/33/36	188.3	0.0	18.9	0.0	0.0	0.0	207.2
(Total)		36			678.7	59.7	20.7	0.0	0.0	0.0	759.1
46	3710	8	51/30/54	35/42/84	0.3	0.0	2.0	0.0	0.0	0.0	2.3
47	3710	8	51/06/58	35/44/24	1.1	0.0	7.1	0.0	0.0	0.0	8.2
48	3710	18	51/29/50	35/35/59	12.0	0.0	48.3	0.0	0.0	0.0	60.3
49	3710	18	51/18/16	35/39/22	1.8	0.0	0.0	0.0	0.0	0.0	1.8
50	3710	18	51/18/24	35/39/27	23.1	0.0	1.8	0.0	0.0	0.0	24.9
51	3710	19	51/18/48	35/38/56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			38.0	0.0	59.4	0.0	0.0	0.0	87.4
52	3813	4	51/24/24	35/43/44	1.0	0.0	0.0	0.0	0.0	0.0	1.0
53	3819	4	51/24/40	35/44/90	0.9	0.0	3.9	0.0	0.0	0.0	4.8
54	3819	4	51/24/56	35/42/24	8.3	0.0	0.0	0.0	0.0	0.0	8.3
55	3819	5	51/19/18	35/42/11	4.4	0.0	1.3	0.0	0.0	0.0	5.7
56	3813	9	51/13/19	35/43/14	2.4	0.0	2.0	0.0	0.0	0.0	4.4
57	3813	9	51/13/26	35/40/40	1.2	0.0	8.9	0.0	0.0	0.0	10.1
58	3813	9	51/11/18	35/43/28	17.8	0.0	5.5	0.0	0.0	0.0	23.3
59	3828	9	51/12/54	35/42/45	11.4	0.0	1.3	0.0	0.0	0.0	12.7
60	3827	9	51/16/08	35/42/26	25.4	0.2	2.0	0.0	0.0	0.0	28.2
61	3813	9	51/10/28	35/43/26	51.8	0.0	7.2	0.0	8.4	0.0	67.4
62	3813	9	51/12/32	35/42/48	41.8	0.0	0.0	0.0	0.0	0.0	41.8
63	3827	14	51/28/40	35/41/21	113.7	0.0	0.0	0.0	0.0	0.0	113.7
64	3819	15	51/28/20	35/38/45	1.1	0.0	7.2	0.0	0.0	0.0	8.3
65	3836	15	51/28/08	35/47/28	28.8	0.0	71.3	0.0	0.0	0.0	100.1
66	3836	19	51/55/18	35/44/02	0.1	0.0	0.5	0.0	0.0	0.0	0.7
67	3829	18	51/19/30	35/40/33	0.1	0.0	0.9	0.0	0.0	0.0	1.0
68	3843	18	51/17/48	35/38/08	1.2	0.0	0.0	0.0	0.0	0.0	1.2
69	3836	18	51/13/08	35/42/33	0.5	0.0	0.0	0.0	0.0	0.0	0.5
70	3819	18	51/19/46	35/42/08	4.8	21.4	0.0	0.0	0.0	0.0	26.2
71	3827	18	51/18/52	35/40/14	2.7	0.0	0.0	0.0	0.0	0.0	2.8
72	3843	19	51/09/00	35/44/45	18.9	0.0	2.0	0.0	0.0	0.0	19.9
73	3843	18	51/18/56	35/37/26	16.5	0.0	10.1	0.0	0.0	0.0	26.6
(Total)		38			354.3	21.7	118.8	0.0	8.4	7.6	506.9
(Grand Total)					1703.5	328.8	484.0	0.0	8.5	8.0	2419.1

Table 2.2 : NOx emission of big factories (Common, 2010)

NO	Name	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Tehran Refinery	2008	51/25/40	35/32/40	5,415.8	4,318.8	1,024.4				9,899.7
2	Power Plant				7,090.4	1,830.1	1,150.7				10,071.3
2.1	- Besat	18	51/25/40	35/32/40	2,314.0	1,830.1	88.9				4,231.0
2.2	- Faroud	2	51/21/10	35/43/24	824.4	0.0	1.4				825.8
2.3	- Ray	2008	51/24/20	35/31/20	4,152.0	0.0	1,062.4				5,214.4
(Total)					12,528.2	6,148.7	1,313.1	0.0	0.0	0.0	19,988.0

Table 2.3 : CO emission of big factories (Common, 2010)

No.	Industrial Code	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3129	4	51/27/40	35/45/31	0.7	0.0	0.0	0.0	0.0	0.0	0.7
2	3130	4	51/29/34	35/44/35	0.2	0.0	0.0	0.0	0.0	0.0	0.2
3	3132	9	51/18/40	35/40/45	4.8	0.0	0.0	0.0	0.0	0.0	4.8
4	3130	9	51/18/06	35/40/29	2.5	0.0	0.0	0.0	0.0	0.0	2.5
5	3130	10	51/21/48	35/42/00	0.3	0.0	0.0	0.0	0.0	0.0	0.3
6	3119	10	51/22/74	35/42/00	0.8	0.0	0.0	0.0	0.0	0.0	0.8
7	3140	11	51/23/16	35/40/29	0.8	0.0	0.0	0.0	0.0	0.0	0.8
8	3115	18	51/25/10	35/42/48	10.3	0.0	0.0	0.0	0.0	0.0	10.3
9	3128	18	51/26/20	35/40/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3135	18	51/27/04	35/43/24	0.1	0.0	0.0	0.0	0.0	0.0	0.1
11	3119	18	51/28/08	35/45/37	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12	3112	18	51/28/10	35/46/29	8.7	0.0	1.3	0.0	0.0	0.0	10.0
(Total)	31				35.0	0.0	8.8	0.0	0.0	4.3	51.1
13	3245	4	51/35/26	35/43/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	51/18/08	35/40/24	0.4	0.0	0.0	0.0	0.0	0.0	0.4
15	3240	9	51/18/34	35/42/43	2.9	0.0	0.0	0.0	0.0	0.0	2.9
16	3211	9	51/08/58	35/43/47	0.8	0.0	0.0	0.0	0.0	0.0	0.8
17	3211	18	51/18/18	35/34/59	1.2	0.1	0.1	0.0	0.0	0.0	1.5
18	3211	20	51/28/10	35/27/04	4.7	0.0	1.8	0.0	0.0	0.0	6.5
(Total)	32				9.9	0.1	3.9	0.0	0.0	0.0	14.0
19	3313	2	51/20/40	35/42/11	0.0	0.0	0.1	0.0	0.0	0.0	0.1
20	3320	9	51/13/20	35/42/40	0.2	0.0	0.0	0.0	0.0	0.0	0.2
21	3313	18	51/17/20	35/43/34	0.0	0.0	0.2	0.0	0.0	0.0	0.2
(Total)	33				0.2	0.0	0.4	0.0	0.0	0.0	0.6
22	3419	18	51/17/20	35/40/24	0.8	3.3	0.0	0.0	0.0	0.0	4.0
(Total)	34				0.8	3.3	0.0	0.0	0.0	0.0	4.0
25	3522	4	51/04/26	35/43/23	0.8	0.0	0.0	0.0	0.0	0.0	0.8
24	3522	9	51/12/10	35/42/59	1.0	0.0	0.0	0.0	0.0	0.0	1.0
25	3521	9	51/13/26	35/43/04	0.8	0.0	0.0	0.0	0.0	0.0	0.8
26	3590	9	51/08/54	35/42/48	0.8	0.0	0.0	0.0	0.0	0.0	0.8
27	3522	9	51/15/30	35/42/08	0.2	0.0	0.0	0.0	0.0	0.0	0.2
28	3521	9	51/14/54	35/42/22	0.1	0.0	0.0	0.0	0.0	0.0	0.1
29	3592	9	51/07/40	35/44/05	0.1	0.5	0.0	0.0	0.0	0.0	0.6
30	3523	9	51/17/20	35/40/45	2.9	0.0	3.9	0.0	0.0	0.0	6.8
31	3522	9	51/08/50	35/44/10	2.5	0.0	0.1	0.0	0.0	0.0	2.6
32	3541	9	51/18/44	35/42/24	0.7	0.0	0.0	0.0	0.0	0.0	0.7
33	3528	18	51/17/24	35/43/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	3523	18	51/14/04	35/43/42	0.8	0.0	0.0	0.0	0.0	0.0	0.8
35	3522	18	51/18/24	35/43/20	0.1	0.0	0.0	0.0	0.0	0.0	0.1
36	3541	18	51/20/14	35/43/20	0.1	0.0	0.0	0.0	0.0	0.0	0.1
37	3522	18	51/17/26	35/42/24	0.3	0.0	0.0	0.0	0.0	0.0	0.3
38	3530	18	51/09/10	35/44/19	0.4	0.0	1.3	0.0	0.0	0.0	1.7
39	3523	18	51/10/00	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	51/25/20	35/34/11	2.4	0.0	2.0	0.0	0.0	0.0	4.4
(Total)	35				17.2	11.0	8.0	0.0	0.0	0.0	36.2
41	3610	9	51/18/44	35/40/13	14.9	0.0	0.0	0.0	0.0	0.0	14.9
42	3620	9	51/18/44	35/40/13	6.9	0.1	0.1	0.0	0.0	0.0	7.1
43	3622	15	51/20/06	35/36/48	11.9	0.0	0.0	0.0	0.0	0.0	11.9
44	3622	15	51/20/06	35/36/48	21.2	4.1	0.0	0.0	0.0	0.0	25.3
45	3689	20	51/25/20	35/33/08	18.4	0.0	1.5	0.0	0.0	0.0	19.9
(Total)	36				69.3	4.2	1.7	0.0	0.0	0.0	75.2
46	3710	8	51/02/54	35/42/83	0.0	0.0	0.2	0.0	0.0	0.0	0.2
47	3710	9	51/05/50	35/44/24	0.1	0.0	0.0	0.0	0.0	0.0	0.1
48	3710	18	51/20/40	35/40/50	1.7	0.0	4.0	0.0	0.0	0.0	5.7
49	3710	18	51/19/10	35/40/02	0.2	0.0	0.0	0.0	0.0	0.0	0.2
50	3710	18	51/18/24	35/40/07	2.3	0.0	0.1	0.0	0.0	0.0	2.4
51	3710	18	51/18/48	35/40/50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	37				3.3	0.0	4.3	0.0	0.0	0.0	7.6
52	3813	4	51/24/24	35/43/44	0.1	0.0	0.0	0.0	0.0	0.0	0.1
53	3819	4	51/24/40	35/44/00	0.0	0.0	0.3	0.0	0.0	0.0	0.3
54	3827	4	51/24/50	35/43/24	0.8	0.0	0.0	0.0	0.0	0.0	0.8
55	3819	5	51/19/10	35/42/11	0.8	0.0	0.1	0.0	0.0	0.0	0.9
56	3843	6	51/13/10	35/43/14	0.2	0.0	3.2	0.0	0.0	0.0	3.4
57	3851	8	51/17/20	35/40/40	0.1	0.0	0.0	0.0	0.0	0.0	0.1
58	3843	9	51/11/18	35/43/28	1.8	0.0	0.4	0.0	0.0	0.0	2.2
59	3828	9	51/12/50	35/42/45	1.1	0.0	0.1	0.0	0.0	0.0	1.2
60	3827	9	51/16/00	35/42/29	2.5	0.0	0.2	0.0	0.0	0.0	2.7
61	3843	9	51/12/20	35/43/38	5.1	0.0	0.6	0.0	31.8	0.0	37.5
62	3843	9	51/12/27	35/42/48	4.1	0.0	0.0	0.0	0.0	0.0	4.1
63	3827	10	51/28/40	35/41/01	11.2	0.0	0.0	0.0	0.0	0.0	11.2
64	3819	15	51/23/20	35/38/45	0.1	0.0	0.0	0.0	0.0	0.0	0.1
65	3839	15	51/23/28	35/47/28	2.0	0.0	5.8	0.0	0.0	0.0	7.8
66	3839	18	51/05/18	35/44/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	3829	18	51/16/30	35/40/13	0.0	0.0	0.1	0.0	0.0	0.0	0.1
68	3843	18	51/17/48	35/42/58	0.1	0.0	0.0	0.0	0.0	0.0	0.1
69	3839	18	51/15/00	35/42/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	51/10/48	35/42/08	0.5	1.5	0.0	0.0	0.0	0.0	2.0
71	3827	18	51/18/51	35/40/14	0.3	0.0	0.0	0.0	0.0	0.0	0.3
72	3843	18	51/15/00	35/44/48	1.7	0.0	0.2	0.0	0.0	0.0	1.9
73	3843	18	51/15/50	35/37/28	1.8	0.0	0.8	0.0	0.0	0.0	2.6
(Total)	38				35.0	1.5	8.5	0.0	31.8	1.1	54.9
Grand Total					188.4	23.8	37.0	0.0	318.1	1.1	547.4

Table 2.3 : CO emission of big factories (Common, 2010)

No.	Name	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Terran Refinery	2008	51/25/40	35/32/40	180.0	236.2	8.5				424.7
2	Power Plant				236.7	100.1	72.0				408.8
2.1	- Bestal	18	51/25/40	35/30/40	78.9	0.0	5.4				84.3
2.2	- Fornal	2	51/21/10	35/43/24	20.9	0.0	0.1				21.0
2.3	- Ryy	2008	51/24/30	35/31/20	136.0	0.0	66.5				202.5
(Total)					415.7	336.3	114.6	0.0	0.0	0.0	832.6

Table 2.4 : HC emission of big factories (Common, 2010)

No	Factory Code	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	3129	4	51/27/40	35/43/31	0.1	0.0	0.4	0.0	0.0	0.0	0.5
2	3130	4	51/29/54	35/44/35	0.0	0.0	0.8	0.0	0.0	0.0	0.8
3	3112	9	51/18/40	35/40/19	0.7	0.0	0.0	0.0	0.0	0.0	0.7
4	3130	9	51/18/08	35/40/29	0.4	0.0	1.2	0.0	0.0	0.0	1.6
5	3130	10	51/21/48	35/42/00	0.1	0.0	0.0	0.0	0.0	0.0	0.1
6	3119	10	51/22/24	35/42/08	0.0	0.0	0.1	0.0	0.0	0.0	0.1
7	3140	11	51/23/10	35/42/29	0.1	2.3	0.1	0.0	0.0	0.0	2.5
8	3115	16	51/25/10	35/42/48	2.3	0.0	0.9	0.0	0.0	0.0	3.2
9	3129	16	51/26/20	35/43/00	0.0	0.0	0.6	0.0	0.0	0.0	0.6
10	3130	16	51/17/04	35/43/24	0.1	0.0	2.2	0.0	0.0	0.0	2.3
11	3119	16	51/18/08	35/43/27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3112	16	51/18/10	35/43/29	1.2	0.0	0.9	0.0	0.0	0.0	2.1
(Total)		31			5.0	2.3	8.8	0.0	0.0	0.0	14.1
13	3240	4	51/33/00	35/43/54	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	51/14/08	35/40/24	0.1	0.8	0.7	0.0	0.0	0.0	1.3
15	3240	9	51/14/24	35/42/43	0.4	0.0	0.1	0.0	0.0	0.0	0.5
16	3211	9	51/04/56	35/43/47	0.3	0.0	0.5	0.0	0.0	0.0	0.8
17	3211	18	51/18/18	35/46/59	0.2	0.1	0.4	0.0	0.0	0.0	0.3
18	3211	20	51/28/10	35/47/04	0.7	0.0	1.3	0.0	0.0	0.0	1.6
(Total)		32			1.4	0.9	2.7	0.0	0.0	0.0	4.7
19	3313	2	51/29/40	35/43/11	0.0	0.0	0.1	0.0	0.0	0.0	0.1
20	3320	9	51/13/20	35/42/40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3313	16	51/17/29	35/43/24	0.0	0.0	0.1	0.0	0.0	0.0	0.1
(Total)		33			0.0	0.0	0.2	0.0	0.0	0.0	0.3
22	3419	18	51/17/50	35/43/24	0.1	2.4	0.0	0.0	0.0	0.0	2.6
(Total)		34			0.1	2.4	0.0	0.0	0.0	0.0	2.6
23	3523	4	51/24/24	35/43/23	0.3	0.0	0.0	0.0	0.0	0.0	0.3
24	3523	9	51/23/10	35/43/29	0.3	0.0	0.0	0.0	0.0	0.0	0.3
25	3521	9	51/13/20	35/43/04	0.1	0.6	0.0	0.0	0.0	0.0	0.3
26	3529	9	51/18/54	35/42/44	0.1	0.0	0.0	0.0	0.0	0.0	0.1
27	3523	9	51/13/50	35/42/28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3523	9	51/14/54	35/42/22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3522	9	51/07/40	35/44/09	0.0	0.4	0.0	0.0	0.0	0.0	0.4
30	3523	9	51/17/20	35/40/45	0.4	0.0	2.7	0.0	0.0	0.0	3.1
31	3522	9	51/08/58	35/44/10	0.4	0.0	0.1	0.0	0.0	0.0	0.5
32	3521	9	51/18/14	35/42/24	0.8	0.4	0.0	0.0	0.0	0.0	1.0
33	3529	18	51/17/28	35/46/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	3523	18	51/14/54	35/42/42	0.1	0.0	0.0	0.0	0.0	0.0	0.1
35	3522	18	51/18/24	35/46/20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	3521	18	51/13/14	35/43/20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	3522	18	51/17/26	35/40/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	3530	18	51/09/10	35/44/18	0.1	0.0	0.8	0.0	0.0	0.0	0.9
39	3523	18	51/13/30	35/42/18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	51/29/20	35/44/11	0.3	7.5	4.0	0.0	0.0	0.0	8.8
(Total)	Darya Tehran Refinery	35			2.5	8.2	5.5	0.0	0.0	0.0	16.2
41	3610	9	51/18/44	35/43/13	0.1	0.0	0.0	0.0	0.0	0.0	0.1
42	3620	9	51/18/44	35/43/13	2.1	0.1	0.9	0.0	0.0	0.0	2.3
43	3622	15	51/26/08	35/48/48	1.7	0.6	0.0	0.0	0.0	0.0	1.3
44	3622	15	51/26/08	35/48/48	5.0	3.1	0.0	0.0	0.0	0.0	8.1
45	3623	20	51/25/20	35/43/58	2.8	0.0	1.3	0.0	0.0	0.0	3.7
(Total)		36			9.5	3.7	1.2	0.0	0.0	0.0	13.8
46	3710	9	51/20/54	35/42/34	0.0	0.0	0.1	0.0	0.0	0.0	0.1
47	3710	9	51/06/58	35/44/24	0.0	0.0	0.1	0.0	0.0	0.0	0.1
48	3710	16	51/20/50	35/38/56	0.2	0.0	0.0	0.0	0.0	0.0	0.2
49	3710	18	51/18/18	35/46/37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	3710	19	51/18/24	35/46/37	0.3	0.0	0.0	0.0	0.0	0.0	0.3
51	3710	19	51/18/14	35/46/24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)		37			0.3	0.0	0.1	0.0	0.0	0.0	0.4
52	3813	4	51/24/24	35/43/44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	3819	4	51/24/46	35/44/00	0.0	0.0	0.2	0.0	0.0	0.0	0.2
54	3822	4	51/24/58	35/43/24	0.1	0.0	0.0	0.0	0.0	0.0	0.1
55	3819	9	51/10/18	35/42/11	0.1	0.0	0.1	0.0	0.0	0.0	0.2
56	3843	9	51/13/10	35/43/14	0.0	0.0	0.1	0.0	0.0	0.0	0.1
57	3843	9	51/17/20	35/43/40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3843	9	51/11/18	35/43/28	0.3	0.0	0.3	0.0	0.0	0.0	0.6
59	3826	9	51/12/56	35/42/43	0.2	0.0	0.1	0.0	0.0	0.0	0.3
60	3827	9	51/18/00	35/42/29	0.4	0.0	0.1	0.0	0.0	0.0	0.5
61	3843	9	51/10/20	35/43/28	0.7	0.0	0.4	0.0	1.2	0.0	1.9
62	3843	9	51/12/32	35/42/48	0.8	0.0	0.0	0.0	0.0	0.0	0.8
63	3827	14	51/28/40	35/41/31	1.8	0.0	0.0	0.0	0.0	0.0	1.8
64	3819	15	51/28/20	35/38/45	0.0	0.0	0.4	0.0	0.0	0.0	0.4
65	3838	15	51/28/58	35/41/28	0.4	0.0	4.0	0.0	0.0	0.0	4.4
66	3839	18	51/05/18	35/41/32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	3829	18	51/18/20	35/40/13	0.0	0.0	0.1	0.0	0.0	0.0	0.1
68	3843	18	51/17/18	35/46/08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	3839	18	51/13/68	35/43/13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	3819	18	51/10/48	35/43/08	0.1	1.1	0.0	0.0	0.0	0.0	1.2
71	3827	18	51/15/52	35/43/14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	3843	18	51/05/00	35/44/42	0.2	0.0	0.1	0.0	0.0	0.0	0.3
73	3843	18	51/18/58	35/47/28	0.2	0.0	0.8	0.0	0.0	0.0	1.0
(Total)		38			5.0	1.1	8.9	0.0	1.2	0.0	25.1
(Grand Total)					24.1	19.9	28.3	0.0	12.2	0.0	60.7

Table 2.4 : HC emission of big factories (Common, 2010)

No	Name	District	Location		Emission amount by Factory						Total emission (ton/year)
			Longitude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	
1	Tehran Refinery	2008	51/25/40	35/32/40	411.3	235.2	8.5	0.0	0.0	0.0	657.2
2	Power Plant - Basat	18	51/25/40	35/32/40	538.7	100.1	87.5	0.0	0.0	0.0	706.3
2.1	- Basat	18	51/25/40	35/32/40	179.9	100.1	5.1	0.0	0.0	0.0	281.0
2.2	- Forough	2	51/21/12	35/32/4	47.4	0.0	0.1	0.0	0.0	0.0	47.5
2.3	- Ray	2008	51/24/30	35/31/20	311.4	0.0	82.3	0.0	0.0	0.0	377.8
(Total)					650.1	335.3	77.1	0.0	0.0	0.0	1363.5

Table 2-5 : SPM emission of big factories (Common, 2010)

No	Industrial Code	District	Location	Longtude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Emission amount by factory	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	3129	4	352740	354531	0.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0	3.0
2	3130	4	352934	354435	0.2	0.0	5.8	0.0	0.0	0.0	0.0	0.0	6.0
3	3112	9	351840	354345	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
4	3130	9	351898	354329	2.1	0.0	8.8	0.0	0.0	0.0	0.0	0.0	10.9
5	3130	10	352148	354300	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.6
6	3119	10	352224	354300	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7
7	3140	11	352310	354300	0.5	18.9	0.7	0.0	0.0	0.0	0.0	0.0	19.2
8	3115	18	352510	354300	14.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	22.8
9	3129	18	352020	354300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3130	18	351724	354324	0.5	0.0	15.8	0.0	0.0	0.0	0.0	0.0	16.3
11	3119	18	351604	354027	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12	3112	18	351410	354229	7.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	7.9
(Total)	31				30.0	18.9	47.0	0.0	0.0	0.0	0.0	0.0	94.8
13	3240	4	351300	354354	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	3211	9	351808	354024	0.5	3.9	5.1	0.0	0.0	0.0	0.0	0.0	9.3
15	3240	9	351454	354243	2.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	3.3
16	3211	9	351656	354347	8.4	0.0	3.9	0.0	0.0	0.0	0.0	0.0	12.3
17	3211	18	351818	354358	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.8
18	3211	20	352010	353704	4.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	4.3
(Total)	32				8.2	4.9	19.5	0.0	0.0	0.0	0.0	0.0	32.6
19	3313	2	352040	354211	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6
20	3320	9	351320	354240	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3
21	3313	18	351720	354034	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
(Total)	33				0.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2.6
22	3419	18	351750	354024	0.7	18.2	0.0	0.0	0.0	0.0	0.0	0.0	18.9
(Total)	34				0.7	18.2	0.0	0.0	0.0	0.0	0.0	0.0	18.9
23	3522	4	352428	354323	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
24	3522	9	351310	354258	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
25	3521	9	351328	354304	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
26	3559	9	351854	354248	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
27	3522	9	351350	354238	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
28	3521	9	351454	354227	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
29	3552	9	350740	354408	0.1	2.8	0.1	0.0	0.0	0.0	0.0	0.0	3.0
30	3533	9	351120	354045	2.9	0.0	19.5	0.0	0.0	0.0	0.0	0.0	22.4
31	3522	9	351656	354410	2.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.5
32	3531	9	351844	354224	3.8	3.1	0.2	0.0	0.0	0.0	0.0	0.0	7.1
33	3529	18	351728	354000	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
34	3523	18	351404	354242	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
35	3521	18	351824	354020	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
36	3541	18	351014	354336	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
37	3522	18	351728	354024	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
38	3530	18	3510510	354418	0.4	0.0	8.3	0.0	0.0	0.0	0.0	0.0	8.7
39	3523	18	351020	354218	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3530	20	352520	353411	2.1	55.8	13.8	0.0	0.0	0.0	0.0	0.0	70.4
(Total)	35	Dezful Refinery			14.7	61.4	43.0	0.0	0.0	0.0	0.0	0.0	118.1
41	3610	9			0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
42	3629	9	351844	354013	0.7	0.7	0.8	0.0	0.0	0.0	0.0	0.0	1.4
43	3692	13			10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
44	3692	15	352056	350548	18.2	21.8	0.0	0.0	0.0	0.0	0.0	0.0	40.0
45	3522	20	352520	353330	15.6	0.0	7.7	0.0	0.0	0.0	0.0	0.0	23.3
(Total)	36				37.3	23.5	8.4	0.0	0.0	0.0	0.0	0.0	69.2
46	3710	9	352054	354288	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
47	3710	9	351656	354424	0.1	0.0	2.9	0.0	0.0	0.0	0.0	0.0	3.0
48	3710	18	351250	354358	1.0	0.0	20.2	0.0	0.0	0.0	0.0	0.0	21.2
49	3710	18	351818	354323	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
50	3710	18	351824	354027	2.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.4
51	3710	19	351848	354558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Total)	37				3.2	0.0	24.3	0.0	0.0	0.0	0.0	0.0	27.5
52	3813	4	351344	354344	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
53	3819	4	351340	354400	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8
54	3827	4	351258	354224	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
55	3819	5	351818	354314	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0
56	3843	9	351310	354314	0.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.0
57	3851	9	351720	354340	2.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.3
58	3843	9	351318	354328	1.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0	4.0
59	3876	9	351258	354245	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.5
60	3877	9	351800	354227	4.4	0.0	3.2	0.0	0.0	0.0	0.0	0.0	7.6
61	3843	9	351250	354338	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
62	3843	9	351252	354248	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
63	3843	9	351252	354248	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
64	3819	14	351240	354131	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8
65	3819	15	351220	353845	0.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0	6.1
66	3839	15	351248	354128	2.4	0.0	29.1	0.0	0.0	0.0	0.0	0.0	31.5
67	3839	18	3519518	354232	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
68	3839	18	3519518	354232	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
69	3829	18	351820	354238	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
70	3843	18	351348	354238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	3819	18	351848	354206	0.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0	8.9
72	3827	18	351852	354014	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
73	3843	18	351800	354418	1.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	2.3
(Total)	38				30.0	8.8	47.7	0.0	0.0	0.0	0.0	0.0	86.5
(Grand Total)					144.3	133.0	189.8	0.0	0.0	0.0	0.0	0.0	467.1

Table 2-5 : SPM emission of big factories (Common, 2010)

No	Name	District	Location	Longtude (DMS)	Latitude (DMS)	Natural Gas (ton/year)	Heavy Oil (ton/year)	Gas Oil (ton/year)	Emission amount by factory	Kerosene (ton/year)	Gasoline (ton/year)	LPG (ton/year)	Total emission (ton/year)
1	Tehran Refinery	2008	352340	353240	154.3	1,833.5	81.8	0.0	0.0	0.0	0.0	0.0	1,229.7
2	Power Plant				202.0	438.0	267.1	0.0	0.0	0.0	0.0	0.0	526.3
2-1	- Diesel	18	352540	353840	68.9	438.0	22.4	0.0	0.0	0.0	0.0	0.0	182.2
2-2	- Fueloil	2	352110	354321	118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	362.6
2-3	- Ray	2008	352420	353120	556.3	1,471.5	339.1	0.0	0.0	0.0	0.0	0.0	2,156.8
(Total)													