

Supplementary Material

Traffic Condition and Emission Factor from Diesel Vehicles within the Kathmandu Valley

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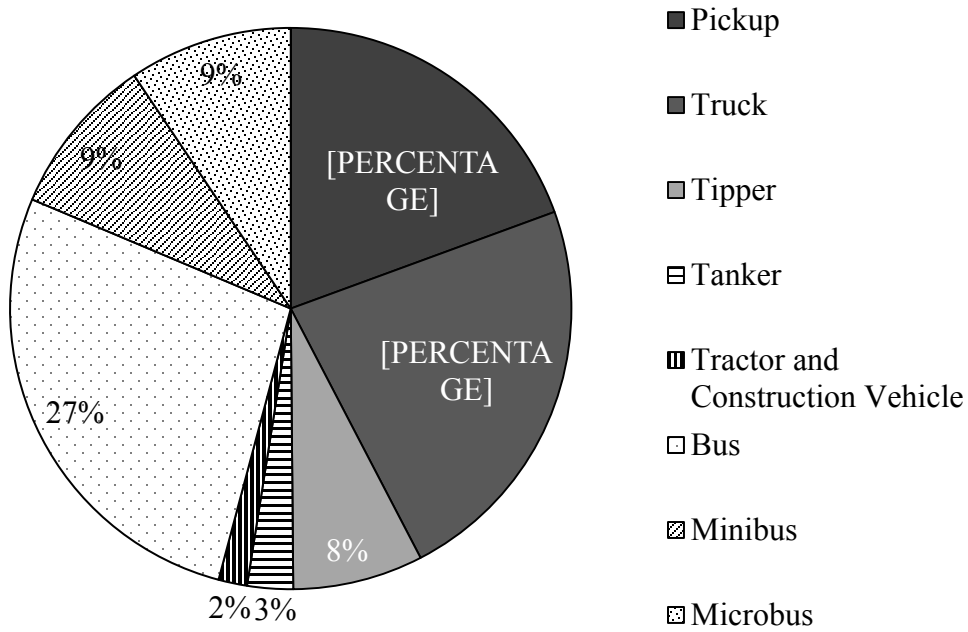


Fig. S1. Composition of superemitter vehicles.

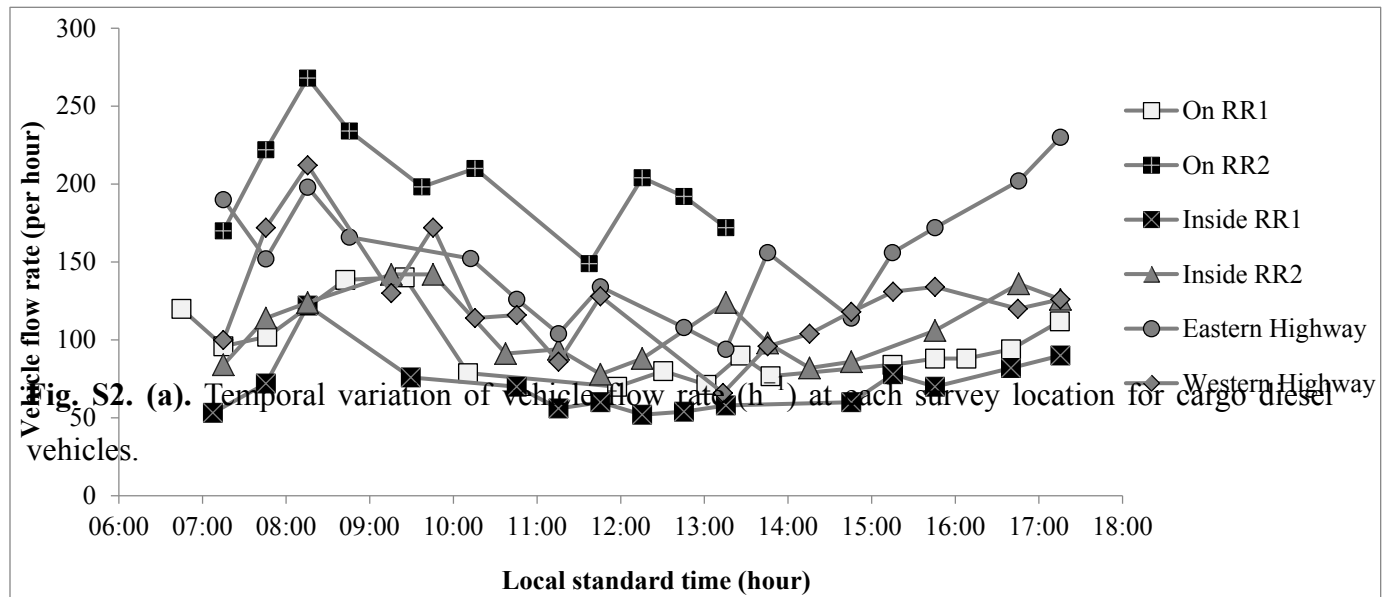
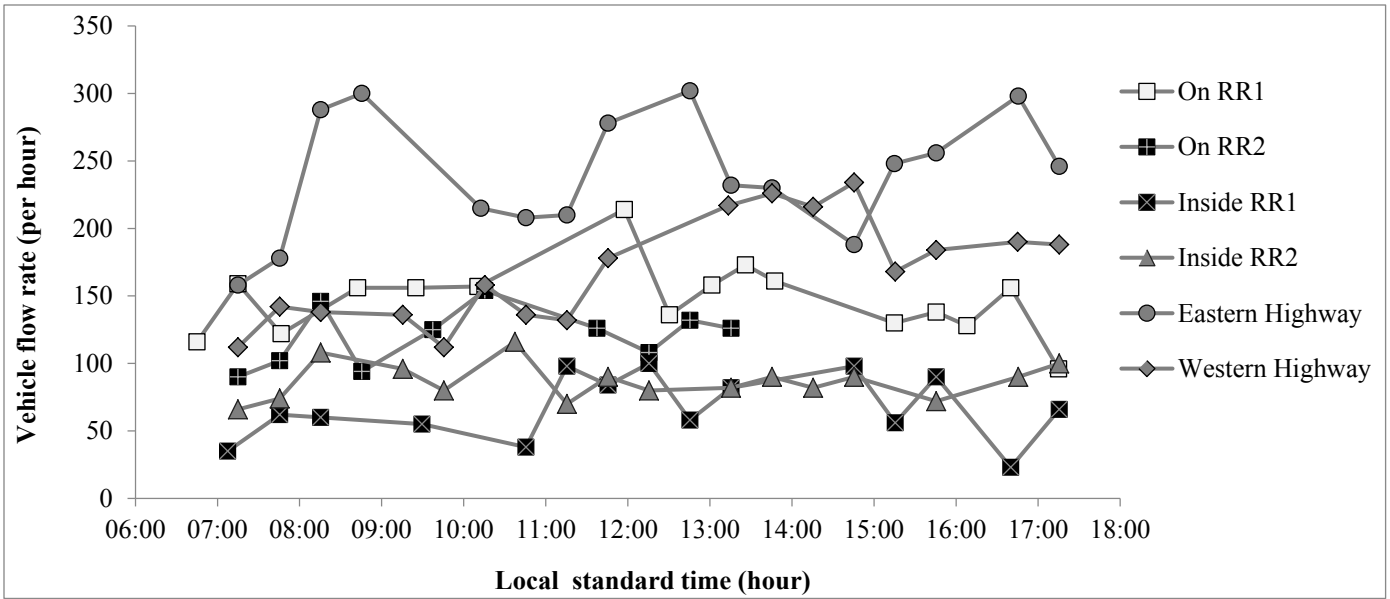


Fig. S2. (a). Temporal variation of vehicle flow rate (h⁻¹) at each survey location for cargo diesel vehicles.

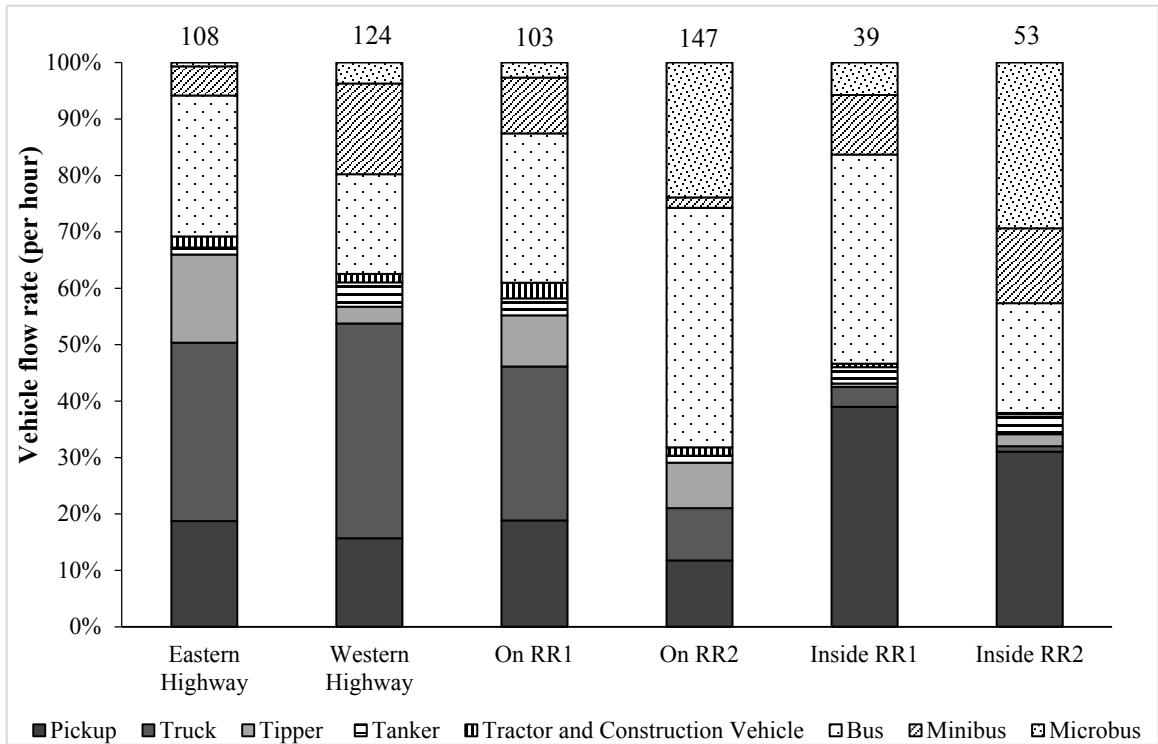


Fig. S3. Vehicle flow rate (h^{-1}) at each survey location listed above each bar for superemitter vehicles. Each data set is further subdivided into eight vehicle types (indicated by shading).

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Table S1. Comparison of data with DoTM, 2017

S.N.	Vehicle types	DoTM (%)	This study (%)	Difference (%)
1.	Minibus	10	12	2
2.	Tipper	7	9	2
3.	Pickup	28	25	3
4.	Microbus	5	9	4
5.	Tractor and construction vehicle	6	1	5
6.	Bus	16	26	10
7.	Truck and tanker	28	18	10

DoTM, Department of Transport Management.

Table S2. Composition of vehicles based on registration

S.N.	Vehicle types	Total vehicles
1.	Black/White (Shared transport)	7,786
2.	Red (Private)	3,733
3.	White (Government)	190
4.	Green (Tourist)	171
5.	Yellow (National corporation)	145
6.	Blue (Diplomatic)	14
	Total	12,039

Table S3. Summary of total cost (USD) for servicing of different types of vehicles

S.N.	Vehicle types	N	Mean	SD	Min.	Q1	Median	Q3	Max.
1.	Truck ^a	20	170	43	90	143	167	201	250
2.	Tipper ^a	20	109	53	60	70	95	142	230
3.	Tanker ^a	20	87	33	30	64	82	105	160
4.	Pickup ^a	20	57	12	35	45	60	65	85
5.	Tractor ^a	9	27	7	20	21	27	36	38
6.	Construction vehicle ^a	8	203	63	104	175	210	242	294
7.	Bus ^a	40	100	21	69	84	99	113	142
8.	Minibus ^a	36	63	8	46	56	63	68	83
9.	Microbus ^a	20	58	6	47	53	57	64	69
10.	Truck ^b	8	136	17	111	121	143	148	156
11.	Tipper ^b	14	99	34	50	70	90	121	154
12.	Tanker ^b	5	104	33	64	89	91	130	146
13.	Pickup ^b	8	58	14	41	48	54	72	78
14.	Tractor ^b	2	16	5	12	14	16	18	20
15.	Construction vehicle ^b	3	197	80	104	173	242	243	245
16.	Bus ^b	15	110	17	73	95	108	123	145
17.	Minibus ^b	14	59	5	53	55	55	56	59
18.	Microbus ^b	10	61	8	52	54	58	61	68

^a represents total cost for servicing according to respondent (driver).

^b represents total cost for servicing according to respondent from local maintenance center.