Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored *ex post*

(a)	Monitoring period	2016/07/01 - 2016/12/31	2016/07/01 - 2016/12/31
(b)	Monitoring point No.	(1)	(2)
(c)	Parameters	$PFC_{i,p}$	$PD_{i,p}$
(d)	Description of data	Project fuel consumption of freight vehicle *i* during the period *p*	Project distance travelled by freight vehicle *i* during the period *p*
(f)	Units	kL/p	km/p
(g)	Monitoring option	Option B	Option C
(h)	Source of data	purchace bill/fuel meter/company record	odometer/data server
(i)	Measurement methods and procedures	The data is obtained from fuel purchase invoices/receipts of Nippon Express (Vietnam) Co., Ltd. In case of in-house refueling, fuel consumption of individual vehicles will be further determined based on internal refueling records. Fuel consumption for trips outside the borders of Vietnam will be excluded from the total fuel consumption for each vehicle. QA/QC Procedures: In case of any irregular values, the data are compared against the accounting information of Nippon Express (Vietnam) Co., Ltd. and/or internal target values for fuel efficiency and/or data from the fuel sensor of the digital tachograph system.	The data is obtained from the records by the GPS tracking system which is part of the digital tachograph system. The system has a level of precision equivalent to the "Black Box" devices approved by the Vietnamese Government. Distance traveled outside the borders of Vietnam will be subtracted from the total distance traveled for each vehicle. QA/QC procedures: The digital tachograph system is subject to regular maintenance and operational control as per the manufacturer's requirements and/or Vietnamese Government regulations. All data is backed up in an SD card installed in each on-board terminal of the digital tachograph system. Any irregular values will be double-checked against the drivers' daily reports for each vehicle or the GPS data from the "Black
(j)	Monitoring frequency	Monthly	Continuous
(k)	Other comments	Assumes a 7% improvement compared to the fuel consumption in the reference scenario. For the purpose of ex-ante estimations, *p = before* (4 months). The data is kept and archived electronically for two years after the final issuance of credits.	For the purpose of *ex-ante* estimations, *p = before* (4 months). The data is kept and archived electronically for two years after the final issuance of credits.
(e)	Monitored Value of vehicle i		
	i=1	2.799	20,567
	i=2	1.578	13,712
	i=3	1.555	13,784
	i=4	1.691	15,234
	i=5	2.075	20,032
	i=6	1.709	17,037
	i=7	1.806	15,929
	i=8	1.852	21,250
	i=9	2.098	15,328
	i=10	1.293	10,929
	i=11	1.247	10,312
	i=12	1.441	14,476
	i=13	2.279	17,735
	i=14	1.379	12,414
	i=15	1.620	11,702
	i=16	1.645	15,510
	i=17	1.433	17,317
	i=18	2.133	19,738
	i=19	2.021	18,627
	i=20	3.393	23,267
	i=21	1.630	18,799
	i=22	1.690	15,497
	i=23	1.645	15,304
	i=24	2.088	18,847
	i=25	1.966	17,949

Table 2: Project-specific parameters fixed *ex ante*

(a)	Parameters	NCV_i	$EF_{CO2,i}$	$FC_{i,before}$	$D_{i,before}$	$\eta_{RE,i}$
(b)	Description of data	Net calorific value of fuel used by freight vehicle *i*	CO_2 emission factor of fuel used by freight vehicle *i*	Fuel consumption by freight vehicle *i* measured during the period *b* before activation of digital tachograph system	Distance travelled by freight vehicle *i* measured during the period *b* before activation of digital tachograph system	Reference fuel efficiency of freight vehicle *i*
(d)	Units	GJ/kL	tCO_2/GJ	kL/b	km/b	kL/km
(e)	Source of data	IPCC default value from "2006 IPCC Guidelines for National Greenhouse Gas Inventory". Lower limit value of the default net calorific value is applied.	IPCC default value from "2006 IPCC Guidelines for National Greenhouse Gas Inventory". Lower limit value of the default CO2 emission factor is applied.	Purchase bills or consumption records: Data is obtained from newly added freight vehicles or comparable freight vehicles before activation of digital tachograph system for at least 60 days within 4 months of lower monthly mean temperature of the year (November, December, January and February).	Driver logs measured: Data is obtained from newly added freight vehicles or comparable freight vehicles before activation of digital tachograph system for at least 60 days within 4 months of lower monthly mean temperature of the year (November, December, January and February).	Calculated data before activation of digital tachograph system
(f)	Other comments	0	0			
(c)	Estimated value of vehicle i					
	i=1	34.8	0.073	1.213	7,489	0.000162
	i=2	34.8	0.073	1.702	11,017	0.000154
	i=3	34.8	0.073	1.113	6,675	0.000167
	i=4	34.8	0.073	1.382	9,033	0.000153
	i=5	34.8	0.073	1.714	10,953	0.000156
	i=6	34.8	0.073	1.790	11,445	0.000156
	i=7	34.8	0.073	1.773	12,597	0.000141
	i=8	34.8	0.073	1.320	11,167	0.000118
	i=9	34.8	0.073	1.127	8,254	0.000137
	i=10	34.8	0.073	1.425	9,478	0.000150
	i=11	34.8	0.073	1.446	9,691	0.000149
	i=12	34.8	0.073	1.506	11,155	0.000135
	i=13	34.8	0.073	1.263	8,424	0.000150
	i=14	34.8	0.073	1.198	8,802	0.000136
	i=15	34.8	0.073	1.418	9,608	0.000148
	i=16	34.8	0.073	1.438	11,047	0.000130
	i=17	34.8	0.073	1.317	9,873	0.000133
	i=18	34.8	0.073	1.595	11,314	0.000141
	i=19	34.8	0.073	1.689	12,147	0.000139
	i=20	34.8	0.073	1.694	11,839	0.000143
	i=21	34.8	0.073	1.390	10,727	0.000130
	i=22	34.8	0.073	1.480	11,541	0.000128
	i=23	34.8	0.073	1.378	11,135	0.000124
	i=24	34.8	0.073	1.648	12,421	0.000133
	i=25	34.8	0.073	1.342	8,860	0.000151

Table3: *Ex-post* calculation of CO_2 emission reductions

(a)	Parameters	RE_p	PE_p
(b)	Description of data	Reference emissions during the period *p*	Project emissions during the period *p*
(d)	Units	$[tCO_2/p]$	$[tCO_2/p]$
(c)	Estimated value of vehicle i		
	i=1	8.4	7.1
	i=2	5.3	4.0
	i=3	5.8	3.9
	i=4	5.9	4.3
	i=5	7.9	5.2
	i=6	6.7	4.3
	i=7	5.7	4.6
	i=8	6.3	4.7
	i=9	5.3	5.3
	i=10	4.1	3.3
	i=11	3.9	3.1
	i=12	4.9	3.6
	i=13	6.7	5.8
	i=14	4.3	3.5
	i=15	4.4	4.1
	i=16	5.1	4.2
	i=17	5.8	3.6
	i=18	7.0	5.4
	i=19	6.5	5.1
	i=20	8.4	8.6
	i=21	6.1	4.1
	i=22	5.0	4.3
	i=23	4.8	4.2
	i=24	6.3	5.3
	i=25	6.9	5.0

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring Period	CO_2 emission reductions	Units
2016/07/01 - 2016/12/31	198	tCO_2/p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and specifications)
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

i=26	1.348	11,587	
i=27	2.314	25,573	
i=28	1.629	20,241	
i=29	1.434	19,177	
i=30	1.540	19,623	
i=31	3.118	19,499	
i=32	4.692	23,671	
i=33	4.450	24,934	
i=34	4.808	19,045	
i=35	0.000	0.000	
i=36	0.000	0.000	
i=37	0.000	0.000	
i=38	0.000	0.000	
i=39	0.000	0.000	
i=40	0.000	0.000	
i=41	0.000	0.000	
i=42	0.000	0.000	
i=43	6.960	12,768	
i=44	4.703	8,058	
i=45	6.479	10,697	
i=46	7.158	13,517	
i=47	6.373	17,091	
i=48	15.690	39,735	
i=49	9.552	17,806	
i=50	8.020	17,110	
i=51	11.439	28,779	
i=52	14.231	31,013	
i=53	13.899	30,472	
i=54	10.702	23,818	
i=55	15.158	33,867	
i=56	10.820	18,981	
i=57	8.958	20,210	
i=58	8.199	16,527	
i=59	14.883	34,839	
i=60	10.376	20,202	
i=61	18.383	36,173	
i=62	8.152	14,981	
i=63	8.155	21,022	
i=64	21.974	29,108	
i=65	13.601	27,113	
i=66	8.719	20,159	
i=67	12.660	28,747	
i=68	11.846	24,921	
i=69	15.762	26,316	
i=70	6.295	11,475	
i=71	12.446	33,817	
i=72	11.305	29,493	
i=73	11.729	32,465	
i=74	11.366	30,397	
i=75	11.528	33,186	
i=76	10.244	29,524	
i=77	10.023	27,183	
i=78	11.410	30,831	
i=79	10.474	26,625	
i=80	9.905	30,262	
i=81	9.370	28,403	
i=82	9.500	28,611	
i=83	9.578	31,426	
i=84	9.703	30,736	
i=85	13.085	33,297	
i=86	13.833	36,644	
i=87	2.579	27,357	
i=88	3.280	32,823	
i=89	2.507	29,575	
i=90	2.857	31,321	
i=91	2.649	31,530	
i=92	4.646	34,394	
i=93	3.118	25,075	
i=94	3.851	29,299	
i=95	4.397	31,948	
i=96	4.239	32,794	
i=97	4.330	31,216	
i=98	6.247	39,106	
i=99	5.666	34,031	
i=100	11.216	56,648	
i=101	6.282	37,898	
i=102	2.750	31,816	
i=103	3.304	36,198	
i=104	2.522	27,449	
i=105	3.645	34,498	
i=106	4.078	35,172	
i=107	3.055	30,869	
i=108	3.711	29,861	
i=109	4.374	37,425	
i=110	3.515	27,161	
i=111	3.972	30,176	
i=112	7.255	43,233	
i=113	6.395	41,911	
i=114	2.452	21,620	
i=115	7.877	37,863	
i=116			
i=117			
i=118			
i=119			
i=120			
i=121			
i=122			
i=123			
i=124			
i=125			
i=126			
i=127			
i=128			
i=129			
i=130			
i=131			
i=132			
i=133			
i=134			
i=135			
i=136			

i=26	34.8	0.073	1.492	10,783	0.000138
i=27	34.8	0.073	2.160	15,250	0.000142
i=28	34.8	0.073	1.635	12,301	0.000133
i=29	34.8	0.073	1.322	10,158	0.000130
i=30	34.8	0.073	1.464	10,215	0.000143
i=31	34.8	0.073	2.629	14,007	0.000188
i=32	34.8	0.073	6.044	28,546	0.000212
i=33	34.8	0.073	4.685	25,509	0.000184
i=34	34.8	0.073	5.382	23,488	0.000229
i=35	34.8	0.073	1.795	5,576	0.000322
i=36	34.8	0.073	7.140	14,596	0.000489
i=37	34.8	0.073	6.873	15,648	0.000439
i=38	34.8	0.073	4.743	10,643	0.000446
i=39	34.8	0.073	6.104	10,772	0.000567
i=40	34.8	0.073	6.977	9,250	0.000754
i=41	34.8	0.073	3.960	3,335	0.001187
i=42	34.8	0.073	9.098	19,830	0.000459
i=43	34.8	0.073	7.184	14,389	0.000499
i=44	34.8	0.073	4.792	8,366	0.000573
i=45	34.8	0.073	6.166	10,596	0.000582
i=46	34.8	0.073	6.695	7,335	0.000913
i=47	34.8	0.073	6.082	14,316	0.000425
i=48	34.8	0.073	7.632	15,689	0.000486
i=49	34.8	0.073	7.936	9,170	0.000865
i=50	34.8	0.073	5.937	11,588	0.000512
i=51	34.8	0.073	8.669	17,849	0.000486
i=52	34.8	0.073	9.878	20,583	0.000480
i=53	34.8	0.073	10.142	19,506	0.000520
i=54	34.8	0.073	6.143	6,341	0.000969
i=55	34.8	0.073	6.957	14,239	0.000489
i=56	34.8	0.073	5.922	11,037	0.000537
i=57	34.8	0.073	6.495	16,825	0.000386
i=58	34.8	0.073	8.957	18,599	0.000482
i=59	34.8	0.073	4.970	9,138	0.000544
i=60	34.8	0.073	6.631	11,921	0.000556
i=61	34.8	0.073	11.732	22,920	0.000512
i=62	34.8	0.073	12.315	22,821	0.000540
i=63	34.8	0.073	14.918	25,204	0.000592
i=64	34.8	0.073	11.601	21,604	0.000537
i=65	34.8	0.073	9.562	20,954	0.000456
i=66	34.8	0.073	10.637	23,124	0.000460
i=67	34.8	0.073	3.952	8,908	0.000444
i=68	34.8	0.073	9.883	23,533	0.000420
i=69	34.8	0.073	13.197	25,793	0.000512
i=70	34.8	0.073	7.089	13,998	0.000506
i=71	34.8	0.073	8.667	16,129	0.000537
i=72	34.8	0.073	7.095	18,904	0.000375
i=73	34.8	0.073	10.035	23,973	0.000419
i=74	34.8	0.073	7.294	17,939	0.000407
i=75	34.8	0.073	8.220	19,845	0.000414
i=76	34.8	0.073	9.955	24,756	0.000402
i=77	34.8	0.073	10.242	26,092	0.000393
i=78	34.8	0.073	9.792	22,134	0.000442
i=79	34.8	0.073	10.479	23,872	0.000439
i=80	34.8	0.073	6.413	18,811	0.000341
i=81	34.8	0.073	6.607	19,643	0.000336
i=82	34.8	0.073	7.214	16,685	0.000432
i=83	34.8	0.073	6.692	18,913	0.000354
i=84	34.8	0.073	7.738	21,599	0.000358
i=85	34.8	0.073	9.381	25,199	0.000372
i=86	34.8	0.073	8.720	19,097	0.000457
i=87	34.8	0.073	1.482	13,739	0.000108
i=88	34.8	0.073	1.101	10,821	0.000102
i=89	34.8	0.073	2.176	16,343	0.000133
i=90	34.8	0.073	2.782	20,702	0.000134
i=91	34.8	0.073	2.710	18,949	0.000143
i=92	34.8	0.073	2.970	18,139	0.000164
i=93	34.8	0.073	2.653	16,174	0.000164
i=94	34.8	0.073	3.890	23,420	0.000166
i=95	34.8	0.073	3.876	22,751	0.000170
i=96	34.8	0.073	2.902	17,571	0.000165
i=97	34.8	0.073	2.421	13,670	0.000177
i=98	34.8	0.073	2.256	11,557	0.000195
i=99	34.8	0.073	2.590	13,077	0.000198
i=100	34.8	0.073	5.189	24,325	0.000213
i=101	34.8	0.073	3.653	19,525	0.000187
i=102	34.8	0.073	1.460	14,227	0.000103
i=103	34.8	0.073	1.633	14,059	0.000116
i=104	34.8	0.073	1.462	13,566	0.000108
i=105	34.8	0.073	2.797	21,876	0.000128
i=106	34.8	0.073	2.682	18,512	0.000145
i=107	34.8	0.073	2.412	18,401	0.000131
i=108	34.8	0.073	2.839	17,033	0.000167
i=109	34.8	0.073	2.944	18,296	0.000161
i=110	34.8	0.073	2.803	17,771	0.000158
i=111	34.8	0.073	2.917	17,506	0.000167
i=112	34.8	0.073	2.484	12,588	0.000197
i=113	34.8	0.073	2.696	13,717	0.000197
i=114	34.8	0.073	1.973	12,952	0.000152
i=115	34.8	0.073	5.017	22,120	0.000227
i=116	34.8	0.073	1.322	10,000	0.000132
i=117	34.8	0.073	1.322	10,000	0.000132
i=118	34.8	0.073	1.322	10,000	0.000132
i=119	34.8	0.073	5.045	15,000	0.000336
i=120	34.8	0.073	5.045	15,000	0.000336
i=121	34.8	0.073	5.045	15,000	0.000336
i=122	34.8	0.073	5.045	15,000	0.000336
i=123	34.8	0.073	5.045	15,000	0.000336
i=124	34.8	0.073	5.045	15,000	0.000336
i=125	34.8	0.073	1.322	10,000	0.000132
i=126	34.8	0.073	1.322	10,000	0.000132
i=127	34.8	0.073	5.045	15,000	0.000336
i=128	34.8	0.073	5.045	15,000	0.000336
i=129	34.8	0.073	5.045	15,000	0.000336
i=130	34.8	0.073	5.045	15,000	0.000336
i=131					-
i=132					-
i=133					-
i=134					-
i=135					-
i=136					-

i=26	4.0	3.4
i=27	9.1	5.8
i=28	6.8	4.1
i=29	6.3	3.6
i=30	7.1	3.9
i=31	9.2	7.9
i=32	12.7	11.8
i=33	11.6	11.2
i=34	11.0	12.1
i=35	0.0	0.0
i=36	0.0	0.0
i=37	0.0	0.0
i=38	0.0	0.0
i=39	0.0	0.0
i=40	0.0	0.0
i=41	0.0	0.0
i=42	0.0	0.0
i=43	16.1	17.6
i=44	11.7	11.9
i=45	15.7	16.4
i=46	31.2	18.1
i=47	18.3	16.1
i=48	48.8	39.6
i=49	38.9	24.1
i=50	22.1	20.2
i=51	35.3	28.9
i=52	37.6	35.9
i=53	40.0	35.1
i=54	58.3	27.0
i=55	41.8	38.3
i=56	25.7	27.3
i=57	19.7	22.6
i=58	20.1	20.7
i=59	47.8	37.6
i=60	28.4	26.2
i=61	46.7	46.4
i=62	20.4	20.6
i=63	31.4	20.6
i=64	39.5	55.5
i=65	31.2	34.3
i=66	23.4	22.0
i=67	32.2	32.0
i=68	26.4	29.9
i=69	34.0	39.8
i=70	14.7	15.9
i=71	45.9	31.4
i=72	27.9	28.5
i=73	34.3	29.6
i=74	31.2	28.7
i=75	34.7	29.1
i=76	30.0	25.9
i=77	26.9	25.3
i=78	34.4	28.8
i=79	29.5	26.4
i=80	26.0	25.0
i=81	24.1	23.7
i=82	31.2	24.0
i=83	28.1	24.2
i=84	27.8	24.5
i=85	31.3	33.0
i=86	42.2	34.9
i=87	7.5	6.5
i=88	8.4	8.3
i=89	9.9	6.3
i=90	10.6	7.2
i=91	11.4	6.7
i=92	14.2	11.7
i=93	10.4	7.9
i=94	12.3	9.7
i=95	13.7	11.1
i=96	13.7	10.7
i=97	14.0	10.9
i=98	19.3	15.8
i=99	17.0	14.3
i=100	30.5	28.3
i=101	17.9	15.9
i=102	8.2	6.9
i=103	10.6	8.3
i=104	7.5	6.4
i=105	11.1	9.2
i=106	12.9	10.3
i=107	10.2	7.7
i=108	12.6	9.4
i=109	15.2	11.0
i=110	10.8	8.9
i=111	12.7	10.0
i=112	21.5	18.3
i=113	20.8	16.1
i=114	8.3	6.2
i=115	21.7	19.9
i=116	0.0	0.0
i=117	0.0	0.0
i=118	0.0	0.0
i=119	0.0	0.0
i=120	0.0	0.0
i=121	0.0	0.0
i=122	0.0	0.0
i=123	0.0	0.0
i=124	0.0	0.0
i=125	0.0	0.0
i=126	0.0	0.0
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Monitoring Spreadsheet: JCM_VN_AM001_ver02.0

Reference Number: VN001_ver02.0

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period *p*	N/A	198.4	tCO_2/p	ER_p
2. Selected default values, etc.				
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	1,983.6	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	1,723.9	tCO_2/p	PE_p

Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored *ex post*

(a)	Monitoring period	2017/01/01 - 2017/09/30	2017/01/01 - 2017/09/30
(b)	Monitoring point No.	(1)	(2)
(c)	Parameters	$PFC_{i,p}$	$PD_{i,p}$
(d)	Description of data	Project fuel consumption of freight vehicle *i* during the period *p*	Project distance travelled by freight vehicle *i* during the period *p*
(f)	Units	kL/p	km/p
(g)	Monitoring option	Option B	Option C
(h)	Source of data	purchace bill/fuel meter/company record	odometer/data server
(i)	Measurement methods and procedures	The data is obtained from fuel purchase invoices/receipts of Nippon Express (Vietnam) Co., Ltd. In case of in-house refueling, fuel consumption of individual vehicles will be further determined based on internal refueling records. Fuel consumption for trips outside the borders of Vietnam will be excluded from the total fuel consumption for each vehicle. QA/QC Procedures: In case of any irregular values, the data are compared against the accounting information of Nippon Express (Vietnam) Co., Ltd. and/or internal target values for fuel efficiency and/or data from the fuel sensor of the digital tachograph system.	The data is obtained from the records by the GPS tracking system which is part of the digital tachograph system. The system has a level of precision equivalent to the "Black Box" devices approved by the Vietnamese Government. Distance traveled outside the borders of Vietnam will be subtracted from the total distance traveled for each vehicle. QA/QC procedures: The digital tachograph system is subject to regular maintenance and operational control as per the manufacturer's requirements and/or Vietnamese Government regulations. All data is backed up in an SD card installed in each on-board terminal of the digital tachograph system. Any irregular values will be double-checked against the drivers' daily reports for each vehicle or the GPS data from the "Black
(j)	Monitoring frequency	Monthly	Continuous
(k)	Other comments	Assumes a 7% improvement compared to the fuel consumption in the reference scenario. For the purpose of ex-ante estimations, *p = before* (4 months). The data is kept and archived electronically for two years after the final issuance of credits.	For the purpose of *ex-ante* estimations, *p = before* (4 months). The data is kept and archived electronically for two years after the final issuance of credits.
(e)	Monitored Value of vehicle i		
	i=1	3.482	25,262
	i=2	2.829	26,771
	i=3	3.019	27,016
	i=4	2.610	25,542
	i=5	2.603	24,799
	i=6	2.133	22,061
	i=7	2.449	25,504
	i=8	2.378	25,888
	i=9	3.210	25,008
	i=10	0.000	0.000
	i=11	1.820	16,685
	i=12	2.163	22,447
	i=13	2.673	21,976
	i=14	2.344	23,620
	i=15	2.014	19,371
	i=16	1.906	21,326
	i=17	2.012	23,612
	i=18	2.481	23,526
	i=19	2.334	21,366
	i=20	2.210	15,996
	i=21	2.207	23,321
	i=22	2.152	20,776
	i=23	2.264	23,352
	i=24	3.169	28,282
	i=25	2.739	25,834

Table 2: Project-specific parameters fixed *ex ante*

(a)	Parameters	NCV_i	$EF_{CO2,i}$	$FC_{i,before}$	$D_{i,before}$	$\eta_{RE,i}$
(b)	Description of data	Net calorific value of fuel used by freight vehicle *i*	CO_2 emission factor of fuel used by freight vehicle *i*	Fuel consumption by freight vehicle *i* measured during the period *b* before activation of digital tachograph system	Distance travelled by freight vehicle *i* measured during the period *b* before activation of digital tachograph system	Reference fuel efficiency of freight vehicle *i*
(d)	Units	GJ/kL	tCO_2/GJ	kL/b	km/b	kL/km
(e)	Source of data	IPCC default value from "2006 IPCC Guidelines for National Greenhouse Gas Inventory". Lower limit value of the default net calorific value is applied.	IPCC default value from "2006 IPCC Guidelines for National Greenhouse Gas Inventory". Lower limit value of the default CO2 emission factor is applied.	Purchase bills or consumption records: Data is obtained from newly added freight vehicles or comparable freight vehicles before activation of digital tachograph system for at least 60 days within 4 months of lower monthly mean temperature of the year (November, December, January and February).	Driver logs measured: Data is obtained from newly added freight vehicles or comparable freight vehicles before activation of digital tachograph system for at least 60 days within 4 months of lower monthly mean temperature of the year (November, December, January and February).	Calculated data before activation of digital tachograph system
(f)	Other comments	0	0			
(c)	Estimated value of vehicle i					
	i=1	34.8	0.073	1.213	7,489	0.000162
	i=2	34.8	0.073	1.702	11,017	0.000154
	i=3	34.8	0.073	1.113	6,675	0.000167
	i=4	34.8	0.073	1.382	9,033	0.000153
	i=5	34.8	0.073	1.714	10,953	0.000156
	i=6	34.8	0.073	1.790	11,445	0.000156
	i=7	34.8	0.073	1.773	12,597	0.000141
	i=8	34.8	0.073	1.320	11,167	0.000118
	i=9	34.8	0.073	1.127	8,254	0.000137
	i=10	34.8	0.073	1.425	9,478	0.000150
	i=11	34.8	0.073	1.446	9,691	0.000149
	i=12	34.8	0.073	1.506	11,155	0.000135
	i=13	34.8	0.073	1.263	8,424	0.000150
	i=14	34.8	0.073	1.198	8,802	0.000136
	i=15	34.8	0.073	1.418	9,608	0.000148
	i=16	34.8	0.073	1.438	11,047	0.000130
	i=17	34.8	0.073	1.317	9,873	0.000133
	i=18	34.8	0.073	1.595	11,314	0.000141
	i=19	34.8	0.073	1.689	12,147	0.000139
	i=20	34.8	0.073	1.694	11,839	0.000143
	i=21	34.8	0.073	1.390	10,727	0.000130
	i=22	34.8	0.073	1.480	11,541	0.000128
	i=23	34.8	0.073	1.378	11,135	0.000124
	i=24	34.8	0.073	1.648	12,421	0.000133
	i=25	34.8	0.073	1.342	8,860	0.000151

Table3: *Ex-post* calculation of CO_2 emission reductions

(a)	Parameters	RE_p	PE_p
(b)	Description of data	Reference emissions during the period *p*	Project emissions during the period *p*
(d)	Units	$[tCO_2/p]$	$[tCO_2/p]$
(c)	Estimated value of vehicle i		
	i=1	10.3	8.8
	i=2	10.4	7.1
	i=3	11.4	7.6
	i=4	9.9	6.6
	i=5	9.8	6.6
	i=6	8.7	5.4
	i=7	9.1	6.2
	i=8	7.7	6.0
	i=9	8.6	8.1
	i=10	0.0	0.0
	i=11	6.3	4.6
	i=12	7.7	5.5
	i=13	8.3	6.7
	i=14	8.1	5.9
	i=15	7.2	5.1
	i=16	7.0	4.8
	i=17	8.0	5.1
	i=18	8.4	6.3
	i=19	7.5	5.9
	i=20	5.8	5.6
	i=21	7.6	5.6
	i=22	6.7	5.4
	i=23	7.3	5.7
	i=24	9.5	8.0
	i=25	9.9	6.9

Table3: *Ex-post* calculation of CO_2 emission reductions

Monitoring Period	CO_2 emission reductions	Units
2017/01/01 - 2017/09/30	230	tCO_2/p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and specifications)
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

i=26	2.013	18,119
i=27	2.193	20,735
i=28	2.083	26,401
i=29	1.669	22,512
i=30	2.275	29,137
i=31	4.496	27,493
i=32	4.411	30,013
i=33	4.537	27,585
i=34	8.848	35,485
i=35	0.000	0.000
i=36	0.000	0.000
i=37	0.000	0.000
i=38	0.000	0.000
i=39	0.000	0.000
i=40	0.000	0.000
i=41	0.000	0.000
i=42	0.000	0.000
i=43	6.141	13,614
i=44	4.308	7,095
i=45	7.005	12,316
i=46	5.036	10,138
i=47	6.961	19,952
i=48	0.000	0.000
i=49	8.086	14,838
i=50	6.807	15,295
i=51	6.246	18,617
i=52	10.377	23,904
i=53	7.152	18,550
i=54	8.649	23,818
i=55	15.934	30,039
i=56	12.733	20,533
i=57	0.000	0.000
i=58	5.616	19,971
i=59	12.500	31,202
i=60	11.139	25,407
i=61	11.949	22,307
i=62	4.684	8,424
i=63	10.570	26,287
i=64	0.000	0.000
i=65	11.285	27,398
i=66	14.236	34,615
i=67	19.434	39,768
i=68	22.016	47,056
i=69	16.940	26,316
i=70	15.643	29,506
i=71	19.104	52,015
i=72	17.926	47,880
i=73	15.774	43,187
i=74	15.679	44,719
i=75	15.764	43,180
i=76	17.600	47,956
i=77	17.609	48,034
i=78	14.980	41,547
i=79	14.454	38,681
i=80	14.147	44,442
i=81	14.045	45,097
i=82	15.040	46,336
i=83	14.528	46,714
i=84	13.411	41,839
i=85	18.700	49,647
i=86	17.460	48,198
i=87	5.928	63,214
i=88	0.000	0.000
i=89	3.500	40,337
i=90	3.637	37,589
i=91	4.035	19,710
i=92	5.199	35,431
i=93	5.040	39,374
i=94	4.254	30,815
i=95	6.207	46,116
i=96	7.264	52,029
i=97	6.741	48,701
i=98	8.446	50,351
i=99	6.873	39,584
i=100	17.905	85,814
i=101	7.082	46,175
i=102	3.335	35,047
i=103	3.570	38,300
i=104	3.140	33,678
i=105	5.199	49,097
i=106	5.565	44,977
i=107	4.720	45,421
i=108	5.391	23,460
i=109	6.461	50,174
i=110	7.307	44,960
i=111	6.967	49,429
i=112	8.201	46,528
i=113	7.140	31,613
i=114	4.714	35,678
i=115	10.214	47,852
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i=39	34.8	0.073	6.104	10,772	0.000567
i=40	34.8	0.073	6.977	9,250	0.000754
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	i=290	-	-
	i=291	-	-
	i=292	-	-
	i=293	-	-
	i=294	-	-
	i=295	-	-
	i=296	-	-
	i=297	-	-
	i=298	-	-
	i=299	-	-
	i=300	-	-

Monitoring Spreadsheet: JCM_VN_AM001_ver02.0

Reference Number: VN001_ver02.0

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period *p*	N/A	231.0	tCO_2/p	ER_p
2. Selected default values, etc.				
3. Calculations for reference emissions				
Reference emissions during the period *p*	N/A	2,309.5	tCO_2/p	RE_p
4. Calculations of the project emissions				
Project emissions during the period *p*	N/A	1,977.9	tCO_2/p	PE_p