

**APPENDIX 8:****AIR QUALITY****Annex A: Central Growth Traffic Data****Annex B: High Demand Growth Scenario**

**APPENDIX 8:****AIR QUALITY****Annex A: Central Growth Traffic Data**

**ANNEX A - CENTRAL GROWTH TRAFFIC DATA**
**Table 1: Baseline Traffic Data (2013)**

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
100	40,356	6.4	42.39	244	7	6.4	33.87
101	39,319	6.4	43.79	245	1,784	6.4	32.09
102	35,237	6.4	51.56	246	12	6.4	33.86
103	32,720	6.4	47.55	247	13,321	6.4	20.29
104	15,276	6.4	22.13	249	4,106	6.4	29.76
105	5,118	6.4	53.06	250	57,422	6.4	35
106	21,171	6.4	31.02	251	50,818	6.4	67.54
107	32,720	6.4	56.33	252	57,422	6.4	70.97
108	29,115	6.4	22.09	253	123	6.4	33.75
109	6,599	6.4	50.73	254	91,374	6.4	53.14
110	4,563	6.4	53.94	255	1,426	6.4	32.45
111	35,237	6.4	40.29	256	9,310	6.4	71.52
112	5,366	6.4	65.62	257	861	6.4	33.01
114	37,282	6.4	39.14	258	7,557	6.4	76.36
115	37,282	6.4	35.47	259	1,186	6.4	32.69
116	40,603	6.4	59.32	260	10,330	6.4	62.99
117	40,603	6.4	54.46	261	1,808	6.4	32.07
118	10,363	6.4	24.79	262	9,984	6.4	27.21
120	18,560	6.4	32.07	263	2,326	6.4	32.71
121	17,872	6.4	32.34	264	346	6.4	33.53
125	18,560	6.4	33.31	265	1,177	6.4	32.7
126	22,164	6.4	22.7	266	4,792	6.4	31.48
127	5,815	6.4	25.92	267	4,535	6.4	29.34
128	5,704	6.4	25.97	268	5,137	6.4	30.45
129	22,156	6.4	20.86	270	1,956	6.4	31.92
130	21,513	6.4	21.07	272	12,819	6.4	25.32

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
131	20,458	6.4	20.06	274	12,519	6.4	25.52
132	9,877	6.4	25.18	276	299	6.4	33.28
133	9,976	6.4	25.13	278	55	6.4	33.76
134	9,705	6.4	25.27	300	3,848	6.4	26.17
135	39,027	6.4	63.31	302	1,270	6.4	32.6
136	49,473	6.4	64.12	304	25,267	6.4	23.63
138	39,027	6.4	52.74	306	500	6.4	27.25
140	20,156	6.4	35.91	308	4,063	6.4	29.81
142	18,871	6.4	56.26	309	15,934	6.4	20.27
143	2,210	6.4	32.4	310	15,434	6.4	20.52
144	22,143	6.4	37.43	311	14,594	6.4	22.41
145	1,854	6.4	32.02	312	1,847	6.4	30.18
146	10,494	6.4	32.5	314	17,883	6.4	26.71
148	9,741	6.4	33	316	12,748	6.4	23.15
149	9,846	6.4	32.93	318	20,195	6.4	23.77
150	9,400	6.4	33.23	320	18,348	6.4	26.53
151	11,238	6.4	22.62	322	466	6.4	32.94
152	3,465	6.4	32.14	324	5,837	6.4	29.98
154	14,304	6.4	24.33	326	6,303	6.4	27.57
155	20,156	6.4	41.35	328	4,759	6.4	29.97
156	10,971	6.4	25.5	330	16,939	6.4	23.41
157	27,331	6.4	49.6	332	7,837	6.4	26.03
158	2,256	6.4	31.62	334	975	6.4	31.92
159	49,473	6.4	35	335	10,076	6.4	24.22
160	47,092	6.4	35	336	9,102	6.4	24.61
162	15,373	6.4	23.75	338	13,813	6.4	30.28
164	14,863	6.4	28.92	339	13,571	6.4	30.44
166	8,510	6.4	24.84	340	13,161	6.4	34.32

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
168	12,347	6.4	20.01	342	14,014	6.4	19.6
169	13,762	6.4	19.07	344	13,678	6.4	19.93
170	1,559	6.4	30.75	345	10,292	6.4	24.82
171	3,821	6.4	30.05	346	3,131	6.4	27.61
172	2,728	6.4	28.41	348	7,161	6.4	25.86
173	9,620	6.4	21.83	350	5,020	6.4	31.36
174	30,387	6.4	35	352	7,840	6.4	29.95
176	19,898	6.4	31.53	354	2,820	6.4	28.23
178	1,829	6.4	30.21	355	22,098	6.4	21.93
180	16,350	6.4	23.13	356	19,278	6.4	22.74
186	21,727	6.4	32.25	357	23,572	6.4	22.35
188	89	6.4	33.79	358	14,741	6.4	32.12
192	21,727	6.4	32.25	360	1,817	6.4	32.06
194	2,335	6.4	29.2	362	25,572	6.4	26.56
195	2,559	6.4	31.31	364	3,111	6.4	32.32
197	2,776	6.4	31.1	366	13,950	6.4	26.84
198	42,783	6.4	25.22	368	354	6.4	33.17
202	688	6.4	33.19	370	13,416	6.4	24.4
204	42,783	6.4	25.22	372	1,956	6.4	29.96
206	4,745	6.4	30.71	374	299	6.4	33.28
208	1,071	6.4	31.73	382	9,926	6.4	27.25
210	19,085	6.4	24.32	384	13,669	6.4	21.41
212	28,443	6.4	28.11	386	10,693	6.4	22.9
214	18,179	6.4	27.37	388	9,771	6.4	27.35
216	32,407	6.4	19.02	390	10,170	6.4	23.69
218	31,947	6.4	71.55	392	399	6.4	33.08
220	27,331	6.4	49.6	394	8,205	6.4	25.66
221	50,818	6.4	71.89	396	7,806	6.4	28.67

Link ID	AADT	% HDV	Speed (kph)
222	19,763	6.4	19.72
224	12,644	6.4	27.31
243	12,519	6.4	25.52

Link ID	AADT	% HDV	Speed (kph)
398	10,701	6.4	26.48
399	2,977	6.4	27.67

**Table 2: Baseline Traffic (2021)**

Link ID	AADT	% HDV	Speed (kph)
100	45,220	6.4	35.56
101	44,058	6.4	37.19
102	39,484	6.4	45.76
103	36,663	6.4	42.79
104	17,118	6.4	21.39
105	5,735	6.4	52.07
106	23,723	6.4	29.99
107	36,663	6.4	51.83
108	32,624	6.4	20.67
109	7,394	6.4	49.46
110	5,113	6.4	53.05
111	39,484	6.4	35
112	6,012	6.4	65.13
114	41,776	6.4	35.87
115	41,776	6.4	35
116	45,497	6.4	57.57
117	45,497	6.4	52.72
118	11,612	6.4	24.37
120	20,797	6.4	31.16
121	20,026	6.4	31.47
125	20,797	6.4	32.55

Link ID	AADT	% HDV	Speed (kph)
244	7	6.4	33.87
245	2,000	6.4	31.87
246	14	6.4	33.86
247	14,927	6.4	18.66
249	4,601	6.4	29.26
250	64,343	6.4	35
251	56,942	6.4	66.61
252	64,343	6.4	69.98
253	138	6.4	33.74
254	102,387	6.4	50.93
255	1,598	6.4	32.27
256	10,432	6.4	71.12
257	964	6.4	32.91
258	8,468	6.4	76.02
259	1,328	6.4	32.54
260	11,575	6.4	61.99
261	2,026	6.4	31.84
262	11,187	6.4	26.4
263	2,606	6.4	32.57
264	388	6.4	33.49
265	1,319	6.4	32.55

Link ID	AADT	% HDV	Speed (kph)
126	24,835	6.4	22.03
127	6,516	6.4	25.64
128	6,391	6.4	25.69
129	24,826	6.4	19.95
130	24,105	6.4	20.2
131	22,924	6.4	19.06
132	11,068	6.4	24.58
133	11,178	6.4	24.52
134	10,875	6.4	24.67
135	43,731	6.4	62.05
136	55,436	6.4	62.83
138	43,731	6.4	50.61
140	22,586	6.4	35
142	21,145	6.4	54.44
143	2,477	6.4	32.22
144	24,811	6.4	35
145	2,078	6.4	31.79
146	11,759	6.4	31.64
148	10,915	6.4	32.21
149	11,033	6.4	32.13
150	10,533	6.4	32.46
151	12,593	6.4	21.94
152	3,882	6.4	31.93
154	16,028	6.4	23.16
155	22,586	6.4	38.41
156	12,293	6.4	25.17
157	30,625	6.4	46.97
158	2,528	6.4	31.34

Link ID	AADT	% HDV	Speed (kph)
266	5,370	6.4	31.18
267	5,082	6.4	28.78
268	5,756	6.4	30.03
270	2,192	6.4	31.68
272	14,364	6.4	24.28
274	14,028	6.4	24.5
276	336	6.4	33.2
278	62	6.4	33.75
300	4,312	6.4	25.23
302	1,423	6.4	32.45
304	28,312	6.4	22.4
306	560	6.4	27.13
308	4,552	6.4	29.31
309	17,854	6.4	19.3
310	17,294	6.4	19.58
311	16,353	6.4	21.69
312	2,069	6.4	29.73
314	20,038	6.4	25.84
316	14,284	6.4	22.52
318	22,629	6.4	22.53
320	20,560	6.4	25.63
322	522	6.4	32.83
324	6,541	6.4	29.5
326	7,063	6.4	26.8
328	5,333	6.4	28.81
330	18,980	6.4	22.81
332	8,781	6.4	25.07
334	1,092	6.4	31.68

Link ID	AADT	% HDV	Speed (kph)
159	55,436	6.4	35
160	52,768	6.4	35
162	17,226	6.4	23.12
164	16,654	6.4	28.31
166	9,536	6.4	24.43
168	13,835	6.4	19
169	15,421	6.4	17.94
170	1,747	6.4	30.37
171	4,281	6.4	29.58
172	3,057	6.4	27.75
173	10,780	6.4	21.05
174	34,050	6.4	35
176	22,296	6.4	30.56
178	2,049	6.4	29.77
180	18,321	6.4	21.13
186	24,345	6.4	31.37
188	99	6.4	33.78
192	24,345	6.4	31.37
194	2,616	6.4	28.63
195	2,867	6.4	31
197	3,111	6.4	30.76
198	47,940	6.4	23.48
202	771	6.4	33.1
204	47,940	6.4	23.48
206	5,316	6.4	30.32
208	1,200	6.4	31.47
210	21,385	6.4	23.16
212	31,871	6.4	26.72

Link ID	AADT	% HDV	Speed (kph)
335	11,290	6.4	23.72
336	10,199	6.4	24.16
338	15,478	6.4	29.16
339	15,206	6.4	29.34
340	14,748	6.4	32.72
342	15,703	6.4	17.88
344	15,327	6.4	18.26
345	11,533	6.4	24.4
346	3,508	6.4	26.84
348	8,024	6.4	25.57
350	5,625	6.4	31.06
352	8,785	6.4	29.47
354	3,160	6.4	27.54
355	24,762	6.4	21.16
356	21,601	6.4	22.06
357	26,413	6.4	21.63
358	16,517	6.4	31.22
360	2,036	6.4	31.83
362	28,654	6.4	25.67
364	3,486	6.4	32.13
366	15,631	6.4	25.98
368	396	6.4	33.08
370	15,033	6.4	23.85
372	2,192	6.4	29.48
374	336	6.4	33.2
382	11,123	6.4	26.44
384	15,317	6.4	20.57
386	11,981	6.4	22.24

Link ID	AADT	% HDV	Speed (kph)
214	20,370	6.4	25.89
216	36,313	6.4	17.44
218	35,797	6.4	70.63
220	30,625	6.4	46.97
221	56,942	6.4	71.01
222	22,144	6.4	17.3
224	14,169	6.4	26.28
243	14,028	6.4	24.5

Link ID	AADT	% HDV	Speed (kph)
388	10,949	6.4	26.56
390	11,396	6.4	22.45
392	447	6.4	32.98
394	9,194	6.4	24.66
396	8,746	6.4	28.03
398	11,991	6.4	25.61
399	3,336	6.4	26.94

**Table 3: Baseline Traffic (2035)**

Link ID	AADT	% HDV	Speed (kph)
100	49,146	6.4	35
101	47,884	6.4	35
102	42,913	6.4	40.89
103	39,847	6.4	38.32
104	18,604	6.4	20.77
105	6,233	6.4	51.24
106	25,783	6.4	29.14
107	39,847	6.4	47.4
108	35,457	6.4	19.5
109	8,036	6.4	48.38
110	5,557	6.4	52.31
111	42,913	6.4	35
112	6,534	6.4	64.7
114	45,404	6.4	35
115	45,404	6.4	35
116	49,448	6.4	56.1

Link ID	AADT	% HDV	Speed (kph)
244	8	6.4	33.87
245	2,173	6.4	31.69
246	15	6.4	33.86
247	16,223	6.4	17.32
249	5,000	6.4	28.85
250	69,930	6.4	35
251	61,887	6.4	65.82
252	69,930	6.4	69.12
253	150	6.4	33.72
254	111,278	6.4	49.1
255	1,737	6.4	32.13
256	11,337	6.4	70.76
257	1,048	6.4	32.82
258	9,203	6.4	75.7
259	1,444	6.4	32.42
260	12,580	6.4	61.15

Link ID	AADT	% HDV	Speed (kph)
117	49,448	6.4	51.27
118	12,621	6.4	24.02
120	22,603	6.4	30.41
121	21,765	6.4	30.75
125	22,603	6.4	31.93
126	26,992	6.4	21.47
127	7,082	6.4	25.4
128	6,946	6.4	25.46
129	26,982	6.4	19.21
130	26,199	6.4	19.47
131	24,914	6.4	18.23
132	12,029	6.4	24.08
133	12,149	6.4	24.02
134	11,820	6.4	24.19
135	47,528	6.4	60.98
136	60,250	6.4	61.74
138	47,528	6.4	48.83
140	24,547	6.4	35
142	22,981	6.4	52.92
143	2,692	6.4	32.07
144	26,966	6.4	35
145	2,258	6.4	31.61
146	12,780	6.4	30.94
148	11,863	6.4	31.55
149	11,991	6.4	31.47
150	11,448	6.4	31.83
151	13,686	6.4	21.37
152	4,219	6.4	31.75

Link ID	AADT	% HDV	Speed (kph)
261	2,202	6.4	31.66
262	12,159	6.4	25.73
263	2,832	6.4	32.45
264	421	6.4	33.45
265	1,433	6.4	32.43
266	5,836	6.4	30.94
267	5,523	6.4	28.32
268	6,256	6.4	29.68
270	2,383	6.4	31.48
272	15,611	6.4	23.42
274	15,246	6.4	23.66
276	365	6.4	33.14
278	68	6.4	33.74
300	4,687	6.4	24.45
302	1,547	6.4	32.32
304	30,771	6.4	21.38
306	609	6.4	27.03
308	4,947	6.4	28.9
309	19,405	6.4	18.5
310	18,796	6.4	18.8
311	17,773	6.4	21.11
312	2,249	6.4	29.35
314	21,778	6.4	25.12
316	15,524	6.4	22.01
318	24,594	6.4	21.52
320	22,345	6.4	24.89
322	567	6.4	32.73
324	7,109	6.4	29.11

Link ID	AADT	% HDV	Speed (kph)
154	17,419	6.4	22.2
155	24,547	6.4	36.03
156	13,361	6.4	24.89
157	33,284	6.4	44.78
158	2,747	6.4	31.11
159	60,250	6.4	35
160	57,350	6.4	35
162	18,721	6.4	22.6
164	18,100	6.4	27.81
166	10,364	6.4	24.08
168	15,037	6.4	18.18
169	16,760	6.4	17.02
170	1,899	6.4	30.06
171	4,653	6.4	29.2
172	3,323	6.4	27.2
173	11,716	6.4	20.4
174	37,007	6.4	35
176	24,232	6.4	29.76
178	2,227	6.4	29.4
180	19,911	6.4	19.49
186	26,459	6.4	30.64
188	108	6.4	33.77
192	26,459	6.4	30.64
194	2,843	6.4	28.16
195	3,116	6.4	30.74
197	3,381	6.4	30.48
198	52,103	6.4	22.05
202	837	6.4	33.03

Link ID	AADT	% HDV	Speed (kph)
326	7,676	6.4	26.16
328	5,796	6.4	27.85
330	20,629	6.4	22.33
332	9,544	6.4	24.28
334	1,187	6.4	31.49
335	12,271	6.4	23.32
336	11,085	6.4	23.79
338	16,822	6.4	28.23
339	16,527	6.4	28.43
340	16,028	6.4	31.39
342	17,067	6.4	16.47
344	16,658	6.4	16.88
345	12,534	6.4	24.05
346	3,813	6.4	26.21
348	8,721	6.4	25.33
350	6,113	6.4	30.8
352	9,548	6.4	29.08
354	3,435	6.4	26.97
355	26,912	6.4	20.52
356	23,477	6.4	21.51
357	28,707	6.4	21.04
358	17,952	6.4	30.48
360	2,212	6.4	31.65
362	31,142	6.4	24.93
364	3,789	6.4	31.97
366	16,989	6.4	25.27
368	431	6.4	33.01
370	16,339	6.4	23.4

Link ID	AADT	% HDV	Speed (kph)
204	52,103	6.4	22.05
206	5,778	6.4	30
208	1,305	6.4	31.25
210	23,242	6.4	22.2
212	34,639	6.4	25.57
214	22,139	6.4	24.67
216	39,466	6.4	16.13
218	38,906	6.4	69.86
220	33,284	6.4	44.78
221	61,887	6.4	70.27
222	24,067	6.4	15.31
224	15,399	6.4	25.43
243	15,246	6.4	23.66

Link ID	AADT	% HDV	Speed (kph)
372	2,383	6.4	29.09
374	365	6.4	33.14
382	12,088	6.4	25.78
384	16,647	6.4	19.88
386	13,022	6.4	21.71
388	11,899	6.4	25.9
390	12,386	6.4	21.43
392	486	6.4	32.9
394	9,992	6.4	23.83
396	9,506	6.4	27.51
398	13,033	6.4	24.89
399	3,625	6.4	26.34

**Table 4: With Scheme Traffic (2021)**

Link ID	AADT	% HDV	Speed (kph)
100	45,218	6.4	35.56
101	44,058	6.4	37.19
102	38,957	6.4	46.47
103	35,273	6.4	44.68
104	23,802	6.4	18.71
105	6,261	6.4	51.24
106	24,599	6.4	29.64
107	35,273	6.4	53.7
108	32,624	6.4	20.67
109	8,785	6.4	47.26
110	8,428	6.4	47.82

Link ID	AADT	% HDV	Speed (kph)
339	20,246	6.4	25.97
340	18,640	6.4	28.81
342	19,361	6.4	15
344	18,663	6.4	15
345	13,217	6.4	23.83
346	2,166	6.4	29.53
348	11,049	6.4	24.56
350	7,393	6.4	30.17
352	8,784	6.4	29.47
354	1,391	6.4	31.09
355	23,252	6.4	21.59

Link ID	AADT	% HDV	Speed (kph)
111	38,957	6.4	35.31
112	5,663	6.4	65.39
118	13,297	6.4	23.81
126	23,326	6.4	22.4
130	25,325	6.4	19.79
131	24,141	6.4	18.57
132	14,079	6.4	23.07
133	14,196	6.4	23.01
134	13,915	6.4	23.15
135	43,731	6.4	62.05
136	55,437	6.4	62.83
137	43,409	6.4	54
138	43,731	6.4	50.61
139	30,625	6.4	46.97
141	21,145	6.4	54.44
142	21,145	6.4	54.44
143	2,478	6.4	32.22
144	24,813	6.4	35
145	2,078	6.4	31.79
146	14,800	6.4	29.61
147	13,915	6.4	23.15
148	13,972	6.4	30.16
149	13,972	6.4	30.16
150	13,471	6.4	30.5
151	14,303	6.4	21.08
152	3,344	6.4	32.2
154	14,103	6.4	24.45
155	22,586	6.4	38.41

Link ID	AADT	% HDV	Speed (kph)
356	21,860	6.4	21.99
357	24,905	6.4	22.01
360	2,037	6.4	31.83
362	28,656	6.4	25.67
364	2,948	6.4	32.4
366	13,706	6.4	26.95
368	396	6.4	33.08
382	12,344	6.4	25.63
384	15,792	6.4	20.34
386	12,124	6.4	22.17
388	10,951	6.4	26.56
390	11,398	6.4	22.45
392	447	6.4	32.98
394	9,194	6.4	24.66
396	8,746	6.4	28.03
398	14,997	6.4	23.6
399	3,666	6.4	26.27
400	44,621	6.4	47.66
401	44,621	6.4	53.52
402	43,701	6.4	48.14
403	2,103	6.4	29.66
404	4,954	6.4	63.3
405	4,954	6.4	63.85
406	39,667	6.4	50.26
407	15,184	6.4	29.35
408	27,675	6.4	49.29
409	17,350	6.4	27.91
410	16,026	6.4	45.84

Link ID	AADT	% HDV	Speed (kph)
157	30,625	6.4	46.97
159	55,437	6.4	35
160	51,616	6.4	35
162	19,267	6.4	22.44
163	18,379	6.4	21.51
164	16,782	6.4	28.27
166	11,850	6.4	23.5
195	2,263	6.4	31.61
197	2,505	6.4	31.36
220	30,625	6.4	46.97
221	56,944	6.4	71.01
243	13,253	6.4	25.02
244	544	6.4	33.6
245	849	6.4	33.02
246	1,701	6.4	32.17
247	18,243	6.4	15.34
249	4,599	6.4	29.26
250	64,344	6.4	35
251	56,944	6.4	66.61
252	64,344	6.4	69.98
253	137	6.4	33.74
254	102,387	6.4	50.93
255	1,598	6.4	32.27
256	10,432	6.4	71.12
257	966	6.4	32.91
258	8,469	6.4	76.02
259	1,328	6.4	32.54
260	12,728	6.4	61.08

Link ID	AADT	% HDV	Speed (kph)
411	336	6.4	33.2
412	9,826	6.4	23.57
413	22,586	6.4	59.24
414	5,480	6.4	34.01
415	14,780	6.4	15
416	18,122	6.4	30.42
417	12,724	6.4	21
418	2,011	6.4	29.84
419	6,559	6.4	63.77
420	5,480	6.4	28.51
421	5,478	6.4	22.89
422	21,591	6.4	22.55
423	1,081	6.4	31.71
424	11,766	6.4	21.54
425	27	6.4	33.82
426	27,675	6.4	53.61
427	1,084	6.4	27.71
428	1,194	6.4	27.65
429	26,044	6.4	20.79
431	336	6.4	33.22
432	10,263	6.4	21.39
433	12,714	6.4	19.75
434	771	6.4	32.33
435	771	6.4	33.1
436	17,403	6.4	43.06
437	2,452	6.4	28.96
439	1,091	6.4	31.69
440	22,264	6.4	53.56

Link ID	AADT	% HDV	Speed (kph)
261	2,026	6.4	31.84
262	12,340	6.4	25.63
263	2,069	6.4	32.84
264	388	6.4	33.1
265	3,007	6.4	30.86
266	7,058	6.4	30.34
267	5,082	6.4	28.78
268	7,445	6.4	28.9
300	4,312	6.4	25.23
302	1,949	6.4	31.92
304	28,312	6.4	22.4
306	4,427	6.4	19.38
308	4,002	6.4	29.86
309	24,538	6.4	15.95
310	20,111	6.4	18.17
311	23,039	6.4	19.01
312	2,069	6.4	29.73
314	20,037	6.4	25.84
316	20,969	6.4	19.84
318	22,628	6.4	22.53
320	20,559	6.4	25.63
322	522	6.4	32.83
324	6,541	6.4	29.5
326	7,063	6.4	26.8
328	9,567	6.4	20.32
330	21,195	6.4	22.18
332	9,450	6.4	24.4
334	1,229	6.4	31.41

Link ID	AADT	% HDV	Speed (kph)
441	2,103	6.4	29.66
443	1,504	6.4	30.86
444	13,535	6.4	49.77
445	6,147	6.4	27.71
446	7,409	6.4	59.43
447	7,652	6.4	26.2
448	20,991	6.4	54.56
449	7,529	6.4	18.78
450	6,683	6.4	60.58
452	1,005	6.4	29.12
453	124	6.4	33.63
454	98	6.4	33.78
455	244	6.4	33.63
457	14,418	6.4	24.06
459	8,349	6.4	25.46
460	201	6.4	33.47
461	9,854	6.4	24.96
462	889	6.4	32.09
463	4,848	6.4	24.16
465	748	6.4	33.13
467	5,596	6.4	28.27
469	5,261	6.4	23.33
471	5,261	6.4	28.6
473	13,589	6.4	20.25
475	336	6.4	33.2
477	13,253	6.4	20.59
479	62	6.4	33.75
481	2,058	6.4	29.75

Link ID	AADT	% HDV	Speed (kph)
335	12,974	6.4	23.05
336	11,745	6.4	23.54
338	19,778	6.4	26.28

Link ID	AADT	% HDV	Speed (kph)
483	3,063	6.4	27.05
487	13,535	6.4	35

**Table 5: With Scheme Traffic (2035)**

Link ID	AADT	% HDV	Speed (kph)
100	49,145	6.4	35
101	47,884	6.4	35
102	42,340	6.4	41.69
103	38,336	6.4	40.37
104	25,869	6.4	17.85
105	6,805	6.4	50.33
106	26,735	6.4	28.75
107	38,336	6.4	49.44
108	35,457	6.4	19.5
109	9,548	6.4	45.99
110	9,160	6.4	46.61
111	42,340	6.4	35
112	6,155	6.4	64.98
118	14,452	6.4	23.41
126	25,352	6.4	21.88
130	27,524	6.4	19.03
131	26,238	6.4	17.7
132	15,302	6.4	22.44
133	15,429	6.4	22.37
134	15,123	6.4	22.53
135	47,528	6.4	60.98

Link ID	AADT	% HDV	Speed (kph)
339	22,004	6.4	24.76
340	20,259	6.4	27.14
342	21,042	6.4	15
344	20,284	6.4	15
345	14,364	6.4	23.44
346	2,354	6.4	29.14
348	12,009	6.4	24.23
350	8,035	6.4	29.84
352	9,546	6.4	29.08
354	1,511	6.4	30.84
355	25,271	6.4	20.99
356	23,758	6.4	21.43
357	27,067	6.4	21.45
360	2,214	6.4	31.65
362	31,145	6.4	24.93
364	3,204	6.4	32.27
366	14,896	6.4	26.33
368	431	6.4	33.01
382	13,416	6.4	24.89
384	17,163	6.4	19.63
386	13,177	6.4	21.63

Link ID	AADT	% HDV	Speed (kph)
136	60,252	6.4	61.74
137	47,179	6.4	52.44
138	47,528	6.4	48.83
139	33,284	6.4	44.78
141	22,981	6.4	52.92
142	22,981	6.4	52.92
143	2,693	6.4	32.07
144	26,967	6.4	35
145	2,258	6.4	31.61
146	16,085	6.4	28.72
147	15,123	6.4	22.53
148	15,185	6.4	29.33
149	15,185	6.4	29.33
150	14,641	6.4	29.69
151	15,545	6.4	20.44
152	3,635	6.4	32.05
154	15,327	6.4	23.61
155	24,547	6.4	36.03
157	33,284	6.4	44.78
159	60,252	6.4	35
160	56,098	6.4	35
162	20,941	6.4	21.86
163	19,975	6.4	20.84
164	18,239	6.4	27.76
166	12,879	6.4	23.07
195	2,460	6.4	31.4
197	2,723	6.4	31.14
220	33,284	6.4	44.78

Link ID	AADT	% HDV	Speed (kph)
388	11,902	6.4	25.9
390	12,388	6.4	21.42
392	486	6.4	32.9
394	9,992	6.4	23.83
396	9,506	6.4	27.51
398	16,300	6.4	22.7
399	3,984	6.4	25.62
400	48,495	6.4	45.53
401	48,495	6.4	51.92
402	47,496	6.4	46.06
403	2,285	6.4	29.28
404	5,384	6.4	62.58
405	5,384	6.4	63.81
406	43,112	6.4	48.37
407	16,502	6.4	28.44
408	30,078	6.4	47.31
409	18,857	6.4	26.87
410	17,418	6.4	42.87
411	365	6.4	33.14
412	10,680	6.4	22.65
413	24,547	6.4	58.15
414	5,956	6.4	33.51
415	16,063	6.4	15
416	19,695	6.4	29.6
417	13,829	6.4	20.23
418	2,185	6.4	29.48
419	7,129	6.4	63.72
420	5,956	6.4	27.53

Link ID	AADT	% HDV	Speed (kph)
221	61,889	6.4	70.27
243	14,403	6.4	24.22
244	592	6.4	33.58
245	923	6.4	32.95
246	1,849	6.4	32.02
247	19,828	6.4	15
249	4,999	6.4	28.85
250	69,932	6.4	35
251	61,889	6.4	65.82
252	69,932	6.4	69.12
253	149	6.4	33.73
254	111,278	6.4	49.1
255	1,737	6.4	32.13
256	11,337	6.4	70.76
257	1,049	6.4	32.82
258	9,205	6.4	75.7
259	1,444	6.4	32.42
260	13,833	6.4	60.15
261	2,202	6.4	31.66
262	13,412	6.4	24.89
263	2,249	6.4	32.74
264	421	6.4	33.03
265	3,269	6.4	30.59
266	7,670	6.4	30.02
267	5,523	6.4	28.32
268	8,092	6.4	28.45
300	4,687	6.4	24.45
302	2,118	6.4	31.75

Link ID	AADT	% HDV	Speed (kph)
421	5,954	6.4	21.91
422	23,466	6.4	21.54
423	1,175	6.4	31.51
424	12,788	6.4	20.43
425	30	6.4	33.82
426	30,078	6.4	52.02
427	1,178	6.4	27.66
428	1,298	6.4	27.6
429	28,306	6.4	20.12
431	365	6.4	33.16
432	11,154	6.4	20.78
433	13,819	6.4	18.99
434	837	6.4	32.19
435	837	6.4	33.03
436	18,915	6.4	38.79
437	2,665	6.4	28.52
439	1,186	6.4	31.49
440	24,197	6.4	51.96
441	2,285	6.4	29.28
443	1,634	6.4	30.59
444	14,710	6.4	47.83
445	6,680	6.4	27.16
446	8,053	6.4	58.36
447	8,316	6.4	25.52
448	22,814	6.4	53.06
449	8,182	6.4	17.43
450	7,264	6.4	59.61
452	1,093	6.4	29.03

Link ID	AADT	% HDV	Speed (kph)
304	30,771	6.4	21.38
306	4,811	6.4	18.58
308	4,349	6.4	29.5
309	26,669	6.4	15
310	21,858	6.4	17.27
311	25,040	6.4	18.18
312	2,249	6.4	29.35
314	21,777	6.4	25.12
316	22,790	6.4	19.09
318	24,593	6.4	21.52
320	22,344	6.4	24.89
322	567	6.4	32.73
324	7,109	6.4	29.11
326	7,676	6.4	26.16
328	10,397	6.4	18.6
330	23,035	6.4	21.64
332	10,270	6.4	23.55
334	1,336	6.4	31.19
335	14,101	6.4	22.58
336	12,765	6.4	23.12
338	21,496	6.4	25.1

Link ID	AADT	% HDV	Speed (kph)
453	135	6.4	33.6
454	107	6.4	33.77
455	265	6.4	33.61
457	15,670	6.4	23.63
459	9,074	6.4	25.21
460	219	6.4	33.44
461	10,709	6.4	24.66
462	966	6.4	31.93
463	5,269	6.4	23.28
465	813	6.4	33.06
467	6,082	6.4	27.76
469	5,717	6.4	22.38
471	5,717	6.4	28.13
473	14,769	6.4	19.03
475	365	6.4	33.14
477	14,403	6.4	19.4
479	68	6.4	33.74
481	2,237	6.4	29.38
483	3,329	6.4	26.78
487	14,710	6.4	35

**High Growth Traffic Data**

**Table 6:** Baseline Traffic (2021)

Link ID	AADT	% HDV	Speed (kph)
100	46,439	6.4	35
101	45,246	6.4	35.53
102	40,549	6.4	44.33

Link ID	AADT	% HDV	Speed (kph)
244	8	6.4	33.87
245	2,054	6.4	31.82
246	14	6.4	33.86

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
103	37,652	6.4	41.45	247	15,329	6.4	18.26
104	17,579	6.4	21.2	249	4,725	6.4	29.14
105	5,890	6.4	51.83	250	66,078	6.4	35
106	24,363	6.4	29.73	251	58,478	6.4	66.38
107	37,652	6.4	50.5	252	66,078	6.4	69.74
108	33,504	6.4	20.32	253	142	6.4	33.73
109	7,594	6.4	49.14	254	105,148	6.4	50.39
110	5,251	6.4	52.84	255	1,641	6.4	32.23
111	40,549	6.4	35	256	10,713	6.4	71.02
112	6,175	6.4	65	257	990	6.4	32.88
114	42,903	6.4	35.06	258	8,696	6.4	75.94
115	42,903	6.4	35	259	1,364	6.4	32.51
116	46,724	6.4	57.13	260	11,887	6.4	61.74
117	46,724	6.4	52.3	261	2,080	6.4	31.79
118	11,925	6.4	24.27	262	11,489	6.4	26.2
120	21,358	6.4	30.94	263	2,676	6.4	32.53
121	20,566	6.4	31.25	264	398	6.4	33.48
125	21,358	6.4	32.36	265	1,354	6.4	32.52
126	25,505	6.4	21.86	266	5,515	6.4	31.11
127	6,691	6.4	25.57	267	5,219	6.4	28.64
128	6,564	6.4	25.62	268	5,912	6.4	29.92
129	25,496	6.4	19.73	270	2,251	6.4	31.62
130	24,756	6.4	19.98	272	14,751	6.4	24.02
131	23,542	6.4	18.81	274	14,406	6.4	24.25
132	11,366	6.4	24.43	276	345	6.4	33.18
133	11,480	6.4	24.37	278	64	6.4	33.75
134	11,169	6.4	24.53	300	4,429	6.4	25
135	44,910	6.4	61.73	302	1,461	6.4	32.41

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
136	56,931	6.4	62.51	304	29,076	6.4	22.09
138	44,910	6.4	50.08	306	576	6.4	27.1
140	23,195	6.4	35	308	4,675	6.4	29.19
142	21,716	6.4	53.99	309	18,336	6.4	19.06
143	2,544	6.4	32.18	310	17,760	6.4	19.35
144	25,481	6.4	35	311	16,794	6.4	21.52
145	2,134	6.4	31.74	312	2,125	6.4	29.61
146	12,076	6.4	31.43	314	20,578	6.4	25.62
148	11,209	6.4	32.01	316	14,669	6.4	22.37
149	11,331	6.4	31.93	318	23,239	6.4	22.23
150	10,818	6.4	32.27	320	21,114	6.4	25.41
151	12,932	6.4	21.77	322	536	6.4	32.8
152	3,987	6.4	31.88	324	6,717	6.4	29.39
154	16,460	6.4	22.88	326	7,253	6.4	26.6
155	23,195	6.4	37.7	328	5,476	6.4	28.52
156	12,625	6.4	25.09	330	19,492	6.4	22.67
157	31,451	6.4	46.32	332	9,018	6.4	24.84
158	2,596	6.4	31.27	334	1,122	6.4	31.63
159	56,931	6.4	35	335	11,595	6.4	23.6
160	54,191	6.4	35	336	10,474	6.4	24.05
162	17,690	6.4	22.96	338	15,896	6.4	28.88
164	17,103	6.4	28.16	339	15,616	6.4	29.06
166	9,793	6.4	24.32	340	15,145	6.4	32.32
168	14,209	6.4	18.75	342	16,127	6.4	17.46
169	15,837	6.4	17.67	344	15,740	6.4	17.85
170	1,794	6.4	30.28	345	11,844	6.4	24.29
171	4,397	6.4	29.47	346	3,603	6.4	26.65
172	3,140	6.4	27.58	348	8,241	6.4	25.5

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
173	11,070	6.4	20.85	350	5,776	6.4	30.98
174	34,968	6.4	35	352	9,022	6.4	29.35
176	22,897	6.4	30.32	354	3,246	6.4	27.37
178	2,105	6.4	29.66	355	25,429	6.4	20.97
180	18,815	6.4	20.64	356	22,184	6.4	21.9
186	25,002	6.4	31.15	357	27,126	6.4	21.45
188	102	6.4	33.77	358	16,963	6.4	31
192	25,002	6.4	31.15	360	2,091	6.4	31.78
194	2,687	6.4	28.49	362	29,427	6.4	25.45
195	2,944	6.4	30.92	364	3,580	6.4	32.08
197	3,194	6.4	30.67	366	16,053	6.4	25.77
198	49,233	6.4	23.05	368	407	6.4	33.06
202	791	6.4	33.08	370	15,439	6.4	23.72
204	49,233	6.4	23.05	372	2,251	6.4	29.36
206	5,460	6.4	30.23	374	345	6.4	33.18
208	1,233	6.4	31.4	382	11,423	6.4	26.24
210	21,962	6.4	22.87	384	15,730	6.4	20.37
212	32,731	6.4	26.38	386	12,304	6.4	22.08
214	20,919	6.4	25.52	388	11,244	6.4	26.36
216	37,292	6.4	17.05	390	11,703	6.4	22.14
218	36,763	6.4	70.41	392	459	6.4	32.95
220	31,451	6.4	46.32	394	9,442	6.4	24.41
221	58,478	6.4	70.8	396	8,982	6.4	27.87
222	22,742	6.4	16.7	398	12,315	6.4	25.4
224	14,551	6.4	26.03	399	3,425	6.4	26.76
243	14,406	6.4	24.25				

**Table 7: Baseline Traffic (2035)**

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
100	51,973	6.4	35	244	9	6.4	33.87
101	50,637	6.4	35	245	2,298	6.4	31.57
102	45,381	6.4	37.42	246	16	6.4	33.86
103	42,139	6.4	35.21	247	17,156	6.4	16.38
104	19,674	6.4	20.34	249	5,288	6.4	28.56
105	6,592	6.4	50.67	250	73,952	6.4	35
106	27,265	6.4	28.54	251	65,446	6.4	65.29
107	42,139	6.4	44.23	252	73,952	6.4	68.51
108	37,497	6.4	18.68	253	159	6.4	33.72
109	8,499	6.4	47.65	254	117,677	6.4	47.83
110	5,876	6.4	51.8	255	1,837	6.4	32.03
111	45,381	6.4	35	256	11,989	6.4	70.53
112	6,910	6.4	64.42	257	1,108	6.4	32.76
114	48,015	6.4	35	258	9,733	6.4	75.51
115	48,015	6.4	35	259	1,527	6.4	32.34
116	52,291	6.4	54.11	260	13,303	6.4	60.57
117	52,291	6.4	50.28	261	2,328	6.4	31.54
118	13,346	6.4	23.78	262	12,858	6.4	25.26
120	23,903	6.4	29.89	263	2,995	6.4	32.37
121	23,016	6.4	30.25	264	446	6.4	33.43
125	23,903	6.4	31.49	265	1,515	6.4	32.35
126	28,544	6.4	21.08	266	6,172	6.4	30.77
127	7,489	6.4	25.24	267	5,840	6.4	28.01
128	7,346	6.4	25.3	268	6,616	6.4	29.44
129	28,534	6.4	18.69	270	2,520	6.4	31.34
130	27,705	6.4	18.97	272	16,509	6.4	22.81
131	26,347	6.4	17.66	274	16,123	6.4	23.07

Link ID	AADT	% HDV	Speed (kph)
132	12,721	6.4	23.73
133	12,848	6.4	23.67
134	12,499	6.4	23.84
135	50,262	6.4	60.26
136	63,715	6.4	61
138	50,262	6.4	47.61
140	25,959	6.4	35
142	24,303	6.4	51.88
143	2,847	6.4	31.97
144	28,517	6.4	35
145	2,388	6.4	31.47
146	13,515	6.4	30.44
148	12,545	6.4	31.09
149	12,681	6.4	31
150	12,107	6.4	31.39
151	14,473	6.4	20.98
152	4,462	6.4	31.63
154	18,421	6.4	21.53
155	25,959	6.4	35
156	14,129	6.4	24.7
157	35,198	6.4	42.38
158	2,905	6.4	30.96
159	63,715	6.4	35
160	60,648	6.4	35
162	19,798	6.4	22.24
164	19,141	6.4	27.46
166	10,960	6.4	23.84
168	15,902	6.4	17.6

Link ID	AADT	% HDV	Speed (kph)
276	386	6.4	33.1
278	71	6.4	33.73
300	4,956	6.4	23.91
302	1,635	6.4	32.23
304	32,540	6.4	20.67
306	644	6.4	26.96
308	5,232	6.4	28.62
309	20,521	6.4	17.94
310	19,877	6.4	18.26
311	18,795	6.4	20.69
312	2,378	6.4	29.09
314	23,030	6.4	24.62
316	16,417	6.4	21.65
318	26,009	6.4	20.81
320	23,630	6.4	24.38
322	600	6.4	32.67
324	7,517	6.4	28.84
326	8,117	6.4	25.72
328	6,129	6.4	27.18
330	21,815	6.4	21.99
332	10,093	6.4	23.73
334	1,256	6.4	31.35
335	12,976	6.4	23.03
336	11,722	6.4	23.54
338	17,790	6.4	27.58
339	17,477	6.4	27.79
340	16,950	6.4	30.46
342	18,048	6.4	15.49

Link ID	AADT	% HDV	Speed (kph)
169	17,724	6.4	16.37
170	2,008	6.4	29.84
171	4,921	6.4	28.93
172	3,514	6.4	26.81
173	12,389	6.4	19.95
174	39,135	6.4	35
176	25,626	6.4	29.2
178	2,355	6.4	29.14
180	21,056	6.4	18.34
186	27,981	6.4	30.13
188	114	6.4	33.76
192	27,981	6.4	30.13
194	3,007	6.4	27.83
195	3,295	6.4	30.56
197	3,575	6.4	30.28
198	55,099	6.4	21.04
202	886	6.4	32.98
204	55,099	6.4	21.04
206	6,110	6.4	29.78
208	1,380	6.4	31.1
210	24,579	6.4	21.52
212	36,631	6.4	24.77
214	23,412	6.4	23.81
216	41,736	6.4	15.22
218	41,143	6.4	69.32
220	35,198	6.4	42.38
221	65,446	6.4	69.77
222	25,451	6.4	15

Link ID	AADT	% HDV	Speed (kph)
344	17,616	6.4	15.92
345	13,255	6.4	23.81
346	4,032	6.4	25.77
348	9,223	6.4	25.16
350	6,465	6.4	30.63
352	10,097	6.4	28.8
354	3,632	6.4	26.57
355	28,460	6.4	20.08
356	24,827	6.4	21.12
357	30,358	6.4	20.62
358	18,984	6.4	29.96
360	2,340	6.4	31.52
362	32,933	6.4	24.42
364	4,006	6.4	31.86
366	17,966	6.4	24.78
368	456	6.4	32.96
370	17,279	6.4	23.09
372	2,520	6.4	28.81
374	386	6.4	33.1
382	12,784	6.4	25.31
384	17,604	6.4	19.4
386	13,771	6.4	21.33
388	12,584	6.4	25.44
390	13,098	6.4	20.71
392	514	6.4	32.84
394	10,567	6.4	23.26
396	10,053	6.4	27.14
398	13,782	6.4	24.39

Link ID	AADT	% HDV	Speed (kph)
224	16,284	6.4	24.84
243	16,123	6.4	23.07

Link ID	AADT	% HDV	Speed (kph)
399	3,834	6.4	25.92

**Table 8: With Scheme Traffic (2021)**

Link ID	AADT	% HDV	Speed (kph)
100	48,475	6.4	35
101	47,490	6.4	35
102	42,045	6.4	42.26
103	38,468	6.4	40.34
104	24,444	6.4	18.45
105	6,430	6.4	50.98
106	25,262	6.4	29.37
107	38,468	6.4	49.4
108	33,504	6.4	20.32
109	9,022	6.4	46.89
110	8,656	6.4	47.47
111	42,045	6.4	35
112	5,816	6.4	65.27
118	13,656	6.4	23.69
126	23,955	6.4	22.25
130	26,008	6.4	19.56
131	24,793	6.4	18.31
132	14,459	6.4	22.88
133	14,579	6.4	22.82
134	14,290	6.4	22.96
135	45,733	6.4	61.52
136	57,826	6.4	62.32

Link ID	AADT	% HDV	Speed (kph)
339	20,792	6.4	25.61
340	19,143	6.4	28.31
342	19,883	6.4	15
344	19,167	6.4	15
345	13,573	6.4	23.71
346	2,225	6.4	29.42
348	11,347	6.4	24.46
350	7,592	6.4	30.07
352	9,021	6.4	29.35
354	1,428	6.4	31.01
355	23,879	6.4	21.41
356	22,449	6.4	21.82
357	25,576	6.4	21.84
360	2,092	6.4	31.78
362	29,429	6.4	25.45
364	3,027	6.4	32.36
366	14,076	6.4	26.77
368	407	6.4	33.06
382	12,677	6.4	25.4
384	16,217	6.4	20.12
386	12,451	6.4	22.01
388	11,246	6.4	26.36

Link ID	AADT	% HDV	Speed (kph)
137	45,723	6.4	53.09
138	45,733	6.4	49.71
139	31,451	6.4	46.32
141	21,716	6.4	53.99
142	21,716	6.4	53.99
143	2,545	6.4	32.17
144	26,375	6.4	35
145	2,134	6.4	31.74
146	15,199	6.4	29.34
147	14,290	6.4	22.96
148	14,349	6.4	29.91
149	14,349	6.4	29.91
150	13,835	6.4	30.25
151	14,688	6.4	20.89
152	3,434	6.4	32.15
154	14,483	6.4	24.2
155	24,018	6.4	36.73
157	31,451	6.4	46.32
159	57,826	6.4	35
160	54,429	6.4	35
162	19,787	6.4	22.26
163	18,875	6.4	21.31
164	17,235	6.4	28.12
166	12,169	6.4	23.37
195	2,324	6.4	31.55
197	2,573	6.4	31.3
220	31,451	6.4	46.32
221	59,623	6.4	70.64

Link ID	AADT	% HDV	Speed (kph)
390	11,706	6.4	22.14
392	459	6.4	32.95
394	9,442	6.4	24.41
396	8,982	6.4	27.87
398	15,402	6.4	23.33
399	3,765	6.4	26.08
400	47,861	6.4	45.96
401	47,861	6.4	52.25
402	47,123	6.4	46.34
403	2,159	6.4	29.55
404	5,087	6.4	63.09
405	5,087	6.4	63.84
406	42,774	6.4	48.63
407	15,593	6.4	29.08
408	29,843	6.4	47.59
409	17,818	6.4	27.59
410	17,282	6.4	43.39
411	345	6.4	33.18
412	10,091	6.4	23.29
413	24,018	6.4	58.49
414	5,628	6.4	33.86
415	15,179	6.4	15
416	18,610	6.4	30.17
417	13,068	6.4	20.77
418	2,065	6.4	29.74
419	6,736	6.4	63.76
420	5,628	6.4	28.22
421	5,626	6.4	22.6

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
243	13,610	6.4	24.78	422	22,174	6.4	22.25
244	559	6.4	33.59	423	1,110	6.4	31.65
245	872	6.4	33	424	12,084	6.4	21.2
246	1,747	6.4	32.12	425	28	6.4	33.82
247	18,735	6.4	15	426	29,843	6.4	52.24
249	4,723	6.4	29.14	427	1,113	6.4	27.69
250	67,500	6.4	35	428	1,226	6.4	27.64
251	59,623	6.4	66.21	429	26,747	6.4	20.59
252	67,500	6.4	69.53	431	345	6.4	33.2
253	140	6.4	33.73	432	10,539	6.4	21.21
254	107,714	6.4	49.88	433	13,057	6.4	19.52
255	1,641	6.4	32.23	434	791	6.4	32.29
256	10,713	6.4	71.02	435	791	6.4	33.08
257	992	6.4	32.88	436	18,766	6.4	39.35
258	8,698	6.4	75.94	437	2,518	6.4	28.83
259	1,364	6.4	32.51	439	1,121	6.4	31.63
260	13,071	6.4	60.81	440	24,008	6.4	52.19
261	2,080	6.4	31.79	441	2,159	6.4	29.55
262	12,673	6.4	25.41	443	1,544	6.4	30.78
263	2,125	6.4	32.81	444	13,900	6.4	49.2
264	398	6.4	33.08	445	6,312	6.4	27.55
265	3,089	6.4	30.78	446	7,609	6.4	59.12
266	7,248	6.4	30.24	447	7,858	6.4	26
267	5,219	6.4	28.64	448	22,978	6.4	53
268	7,646	6.4	28.77	449	7,732	6.4	18.37
300	4,429	6.4	25	450	6,864	6.4	60.29
302	2,001	6.4	31.87	452	1,032	6.4	29.09
304	29,076	6.4	22.09	453	128	6.4	33.62

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
306	4,546	6.4	19.14	454	101	6.4	33.77
308	4,110	6.4	29.76	455	250	6.4	33.62
309	25,200	6.4	15.62	457	14,807	6.4	23.93
310	20,654	6.4	17.9	459	8,574	6.4	25.39
311	23,661	6.4	18.76	460	207	6.4	33.46
312	2,125	6.4	29.61	461	10,119	6.4	24.87
314	20,577	6.4	25.62	462	913	6.4	32.05
316	21,534	6.4	19.62	463	4,979	6.4	23.89
318	23,238	6.4	22.23	465	768	6.4	33.1
320	21,113	6.4	25.41	467	5,747	6.4	28.11
322	536	6.4	32.8	469	5,402	6.4	23.04
324	6,717	6.4	29.39	471	5,402	6.4	28.46
326	7,253	6.4	26.6	473	13,956	6.4	19.89
328	9,825	6.4	19.8	475	345	6.4	33.18
330	21,767	6.4	22.02	477	13,610	6.4	20.23
332	9,705	6.4	24.15	479	64	6.4	33.75
334	1,262	6.4	31.34	481	2,113	6.4	29.64
335	13,324	6.4	22.91	483	3,146	6.4	26.97
336	12,062	6.4	23.41	487	13,900	6.4	35
338	20,312	6.4	25.93				

**Table 9: With Scheme Traffic (2035)**

Link ID	AADT	% HDV	Speed (kph)	Link ID	AADT	% HDV	Speed (kph)
100	54,251	6.4	35	339	23,269	6.4	23.91
101	53,148	6.4	35	340	21,424	6.4	25.97
102	47,055	6.4	35.07	342	22,252	6.4	15
103	43,051	6.4	35	344	21,451	6.4	15
104	27,357	6.4	17.25	345	15,190	6.4	23.16

Link ID	AADT	% HDV	Speed (kph)
105	7,196	6.4	49.71
106	28,272	6.4	28.13
107	43,051	6.4	42.94
108	37,497	6.4	18.68
109	10,097	6.4	45.13
110	9,687	6.4	45.77
111	47,055	6.4	35
112	6,509	6.4	64.72
118	15,283	6.4	23.13
126	26,810	6.4	21.51
130	29,107	6.4	18.5
131	27,747	6.4	17.1
132	16,182	6.4	21.99
133	16,316	6.4	21.93
134	15,993	6.4	22.09
135	51,183	6.4	60.01
136	64,716	6.4	60.79
137	51,171	6.4	50.86
138	51,183	6.4	47.2
139	35,198	6.4	42.38
141	24,303	6.4	51.88
142	24,303	6.4	51.88
143	2,848	6.4	31.97
144	29,518	6.4	35
145	2,388	6.4	31.47
146	17,010	6.4	28.1
147	15,993	6.4	22.09
148	16,059	6.4	28.74

Link ID	AADT	% HDV	Speed (kph)
346	2,490	6.4	28.87
348	12,699	6.4	24
350	8,497	6.4	29.61
352	10,095	6.4	28.8
354	1,598	6.4	30.66
355	26,724	6.4	20.58
356	25,124	6.4	21.04
357	28,624	6.4	21.06
360	2,341	6.4	31.52
362	32,936	6.4	24.42
364	3,388	6.4	32.17
366	15,753	6.4	25.9
368	456	6.4	32.96
382	14,188	6.4	24.37
384	18,150	6.4	19.13
386	13,935	6.4	21.25
388	12,586	6.4	25.44
390	13,101	6.4	20.71
392	514	6.4	32.84
394	10,567	6.4	23.26
396	10,053	6.4	27.14
398	17,237	6.4	22.08
399	4,214	6.4	25.16
400	53,564	6.4	41.68
401	53,564	6.4	49.92
402	52,738	6.4	42.43
403	2,417	6.4	29.02
404	5,693	6.4	62.09

Link ID	AADT	% HDV	Speed (kph)
149	16,059	6.4	28.74
150	15,483	6.4	29.13
151	16,439	6.4	19.99
152	3,844	6.4	31.94
154	16,209	6.4	23.01
155	26,880	6.4	35
157	35,198	6.4	42.38
159	64,716	6.4	35
160	60,914	6.4	35
162	22,145	6.4	21.46
163	21,124	6.4	20.38
164	19,288	6.4	27.41
166	13,619	6.4	22.78
195	2,601	6.4	31.26
197	2,880	6.4	30.98
220	35,198	6.4	42.38
221	66,727	6.4	69.6
243	15,232	6.4	23.67
244	626	6.4	33.56
245	976	6.4	32.89
246	1,955	6.4	31.91
247	20,968	6.4	15
249	5,286	6.4	28.56
250	75,543	6.4	35
251	66,727	6.4	65.1
252	75,543	6.4	68.28
253	157	6.4	33.72
254	120,548	6.4	47.27

Link ID	AADT	% HDV	Speed (kph)
405	5,693	6.4	63.8
406	47,871	6.4	45.86
407	17,451	6.4	27.81
408	33,399	6.4	44.69
409	19,941	6.4	26.14
410	19,341	6.4	37.64
411	386	6.4	33.1
412	11,294	6.4	22
413	26,880	6.4	56.92
414	6,299	6.4	33.17
415	16,987	6.4	15
416	20,828	6.4	29.03
417	14,625	6.4	19.7
418	2,311	6.4	29.23
419	7,539	6.4	63.7
420	6,299	6.4	26.84
421	6,296	6.4	21.22
422	24,816	6.4	20.83
423	1,243	6.4	31.38
424	13,523	6.4	19.66
425	31	6.4	33.81
426	33,399	6.4	49.91
427	1,246	6.4	27.62
428	1,373	6.4	27.56
429	29,934	6.4	19.65
431	386	6.4	33.12
432	11,795	6.4	20.35
433	14,613	6.4	18.46

Link ID	AADT	% HDV	Speed (kph)
255	1,837	6.4	32.03
256	11,989	6.4	70.53
257	1,110	6.4	32.76
258	9,734	6.4	75.51
259	1,527	6.4	32.34
260	14,629	6.4	59.53
261	2,328	6.4	31.54
262	14,183	6.4	24.37
263	2,378	6.4	32.68
264	446	6.4	32.98
265	3,457	6.4	30.4
266	8,112	6.4	29.8
267	5,840	6.4	28.01
268	8,557	6.4	28.14
300	4,956	6.4	23.91
302	2,240	6.4	31.62
304	32,540	6.4	20.67
306	5,088	6.4	18.02
308	4,599	6.4	29.25
309	28,202	6.4	15
310	23,115	6.4	16.63
311	26,480	6.4	17.6
312	2,378	6.4	29.09
314	23,029	6.4	24.62
316	24,100	6.4	18.56
318	26,007	6.4	20.81
320	23,629	6.4	24.38
322	600	6.4	32.67

Link ID	AADT	% HDV	Speed (kph)
434	886	6.4	32.09
435	886	6.4	32.98
436	21,002	6.4	35
437	2,818	6.4	28.21
439	1,254	6.4	31.35
440	26,868	6.4	49.85
441	2,417	6.4	29.02
443	1,728	6.4	30.4
444	15,556	6.4	46.5
445	7,065	6.4	26.78
446	8,516	6.4	57.63
447	8,794	6.4	25.04
448	25,716	6.4	50.76
449	8,653	6.4	16.48
450	7,682	6.4	58.95
452	1,156	6.4	28.96
453	143	6.4	33.59
454	113	6.4	33.76
455	280	6.4	33.59
457	16,572	6.4	23.32
459	9,596	6.4	25.04
460	231	6.4	33.41
461	11,325	6.4	24.46
462	1,021	6.4	31.82
463	5,572	6.4	22.68
465	860	6.4	33.01
467	6,432	6.4	27.41
469	6,046	6.4	21.72

Link ID	AADT	% HDV	Speed (kph)
324	7,517	6.4	28.84
326	8,117	6.4	25.72
328	10,995	6.4	17.4
330	24,360	6.4	21.26
332	10,861	6.4	22.96
334	1,413	6.4	31.04
335	14,912	6.4	22.26
336	13,499	6.4	22.82
338	22,732	6.4	24.27

Link ID	AADT	% HDV	Speed (kph)
471	6,046	6.4	27.8
473	15,619	6.4	18.18
475	386	6.4	33.1
477	15,232	6.4	18.57
479	71	6.4	33.73
481	2,365	6.4	29.12
483	3,521	6.4	26.59
487	15,556	6.4	35

**APPENDIX 8:**

**AIR QUALITY**

**Annex B: High Demand Growth Scenario**

**ANNEX B - HIGH DEMAND GROWTH SCENARIO**
**Local Air Quality**
**Table 1: High Growth Baseline Scenario Annual Mean Pollutant concentrations (2021)**

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	27.9	19.0	11.1	3
R2	24.0	19.0	11.0	3
R3	33.6	21.9	12.6	7
R4	23.5	18.6	10.8	2
R5	27.6	19.7	11.4	4
R6	23.8	18.9	10.9	3
R7	26.4	18.7	10.9	3
R8	25.8	18.6	10.8	2
R9	22.4	16.9	10.0	1
R10	30.3	19.1	11.2	3
R11	22.7	18.3	10.6	2
R12	21.5	18.0	10.5	2
R13	24.1	18.8	10.9	3
R14	25.8	19.0	11.0	3
R15	25.9	19.1	11.0	3
R16	22.7	18.2	10.6	2
R17	29.1	20.1	11.6	4
R18	24.6	19.1	11.1	3

**Table 2: High Growth With Scheme Scenario Annual Mean Pollutant concentrations (2021)**

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	25.1	18.2	10.7	2
R2	24.0	19.1	11.0	3
R3	35.1	22.4	12.9	7
R4	23.3	18.7	10.8	2
R5	29.7	20.2	11.7	4
R6	24.3	19.0	11.0	3
R7	28.6	19.0	11.0	3
R8	27.3	18.8	10.9	3
R9	22.4	16.9	10.0	1
R10	29.4	19.2	11.2	3
R11	21.1	18.0	10.4	2
R12	20.9	18.0	10.4	2
R13	24.9	19.0	11.0	3
R14	28.1	19.4	11.3	3
R15	27.8	19.4	11.3	3
R16	23.0	18.3	10.6	2
R17	30.4	20.3	11.8	4
R18	25.4	19.3	11.2	3

**Table 3: Change in Annual Mean Pollutant concentrations for High Growth Scenario (2021)**

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	-2.8	-0.8	-0.5	-1
R2	0.1	0.1	<0.1	<1
R3	1.5	0.5	0.3	<1
R4	-0.2	<0.1	<0.1	<1
R5	2.1	0.5	0.3	<1
R6	0.5	0.1	0.1	<1
R7	2.2	0.3	0.2	<1
R8	1.5	0.2	0.1	1
R9	<0.1	<0.1	<0.1	<1
R10	-1.0	0.1	<0.1	<1
R11	-1.6	-0.3	-0.2	<1
R12	-0.6	-0.1	<0.1	<1
R13	0.8	0.2	0.1	<1
R14	2.3	0.4	0.2	<1
R15	2.0	0.4	0.2	<1
R16	0.3	0.1	<0.1	<1
R17	1.3	0.2	0.1	<1
R18	0.9	0.2	0.1	<1

**Table 4: High Growth Baseline Scenario Annual Mean Pollutant concentrations (2035)**

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	24.6	19.7	11.3	4
R2	21.3	19.7	11.2	4
R3	28.4	22.9	12.8	8
R4	20.9	19.3	11.0	3
R5	24.0	20.5	11.6	5
R6	21.1	19.6	11.1	3
R7	23.4	19.4	11.0	3
R8	22.9	19.3	10.9	3
R9	20.5	17.5	10.1	2
R10	26.3	19.9	11.4	4
R11	20.3	18.9	10.8	3
R12	19.4	18.7	10.6	2
R13	21.3	19.5	11.0	3
R14	22.6	19.8	11.2	4
R15	22.7	19.8	11.2	4
R16	20.3	18.9	10.7	3
R17	26.2	20.8	11.8	5
R18	21.8	19.9	11.2	4

**Table 5: High Growth With Scheme Scenario Annual Mean Pollutant concentrations (2035)**

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	22.6	18.8	10.8	3
R2	21.4	19.8	11.2	4
R3	29.9	23.4	13.1	9
R4	20.8	19.4	11.0	3
R5	25.7	21.0	11.9	5
R6	21.5	19.7	11.2	4
R7	24.8	19.8	11.2	4
R8	23.8	19.5	11.1	3
R9	20.5	17.5	10.1	2
R10	25.6	19.9	11.4	4
R11	19.2	18.6	10.6	2
R12	19.1	18.6	10.6	2
R13	22.1	19.7	11.2	4
R14	24.5	20.2	11.4	4
R15	24.3	20.2	11.4	4
R16	20.6	18.9	10.7	3
R17	27.3	21.0	11.9	5
R18	22.5	20.1	11.4	4

**Table 6:** Change in Annual Mean Pollutant concentrations for 2035 High Growth Scenarios

Receptor	Predicted Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )			Number of exceedances of 24-hour $\text{PM}_{10}$ limit (days)
	$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
R1	-2.0	-0.9	-0.5	-1
R2	0.1	0.1	<0.1	<1
R3	1.5	0.6	0.3	1
R4	-0.1	<0.1	<0.1	<1
R5	1.7	0.5	0.3	<1
R6	0.4	0.1	0.1	1
R7	1.4	0.3	0.2	1
R8	0.9	0.2	0.1	<1
R9	<0.1	<0.1	<0.1	<1
R10	-0.8	0.1	<0.1	<1
R11	-1.1	-0.3	-0.2	-1
R12	-0.4	-0.1	<0.1	<1
R13	0.8	0.2	0.1	1
R14	1.9	0.5	0.2	<1
R15	1.6	0.4	0.2	<1
R16	0.3	0.1	<0.1	<1
R17	1.0	0.3	0.1	<1
R18	0.7	0.2	0.1	<1

**Regional Assessment**
**Table 7: High Growth Regional Results**

Year	Total Yearly Emissions (tonnes/year)				
	CO <sub>2</sub> e <sup>(a)</sup>	CO	THC	NO <sub>x</sub>	PM <sub>10</sub>
2013	37,161	173.3	24.2	98.0	2.8
2021 Baseline	37,362	200.0	27.9	93.0	2.8
2021 With Scheme	38,075	202.7	28.3	95.3	2.8
Change (2021 WS – 2021 BL)	713	2.7	0.4	2.3	<0.1
Change (2021 WS – 2013 BL)	914	29.4	4.1	-2.7	<-0.1
2035 Baseline	37,978	227.7	31.8	104.7	3.2
2035 With Scheme	38,718	231.1	32.3	107.3	3.3
Change (2035 WS – 2035 BL)	740	3.4	0.6	2.6	<0.1
Change (2035 WS – 2013 BL)	1,557	57.9	8.1	9.3	0.5