Link	Car	Jeepney	Bus	Truck	Total
00-22B	31737	14760	5043	2075	53615 1685
01-21A 01-21B	604 604	674 674	$\frac{244}{244}$	163 163	1685
01-21B	539	480	123	73	1215
01-22B	539	480	123	73	1215
01-22C 02-21	435 3023	414 76	59 70 <b>7</b>	46 754	954 4560
02-22	270	260	15	55	600
02-23A	954	391	447	715	2507
02-23B 02-24A	954 1498	391 525	447 295	715 568	2507 2886
02-24B	1498	525	295	568	2886
02-24CX	1498	525	295	568	2886
02-24CY 02-24D	1593 1087	381 187	301 245	435 248	2710 1767
02-25A	369	15	104	109	597
02-25B	369	15	104	109	597
02-25C 02-26 X	220 255	13 17	79 59	65 66	377 397
02-26 Y	740	85	149	132	1106
02-27	133	284	37	<b>25</b> .	479
03-21 03-22A	502 153	617 101	156 39	109 35	1384 328
03-22B	281	133	68	51	533
03-23	351	444	87	97	979
03-24A 03-24B	$\begin{array}{c} 1087 \\ 1438 \end{array}$	187 630	245 332	248 345	1767 2745
03-24B 03-24C	1438	630	332	345	2745
03-25	351	444	87	97	979
04-21A 04-21B	317 153	885 101	40 39	132 35	1374 328
04-21C	153	101	39	35	328
04-23A	9	21	1	0	31
04-23B 05-21A	9 502	21 617	1 156	0 109	31 1384
05-21B	574	75 <u>1</u>	154	132	1611
05-21C	343	547	99	124	1113
05-21D 05-22A	343 435	547 414	99 59	124 46	1113 954
05-22B	435	414	59	46	954
05-23A	310	249	57	88 33	704
05-23B 05-23C	210 210	212 212	44 44	33	499 499
05-27A	283	174	44	67	568
05-27B	283	174	44	67	568 901
05-27C 05-51	479 479	219 219	64 64	139 139	901
11-12A	2075	954	838	823	4690
11-12B	2075	954	838	823	4690 4690
11-12C 11-12D	2075 2043	954 1318	838 854	823 721	4936
11-12E	1397	779	741	615	3532
11-12F	1397	779	741	615	3532
11-12G 11-12H	$\frac{164}{164}$	237 237	99 99	545 545	1045 1045
11-121	45	71	17	27	160
11-21A	904	717	122	257	2000
11-21B 11-21C	479 479	219 219	64 64	139 139	901 901
12-12A	2359	1538	1217	1052	6166
12-12B	2475	1499	1270	1080	6324
12-12C 12-12D	2475 2625	1499 1481	1270 1277	1080 1127	6324 6510
12-12E	2625	1481	1277	1127	6510
12-12F	2625	1481	1277	1127	6510
12-12G	2222 2075	1235	1049 838	975 823	5481 4690
12-12H	2075	954	X 1×	71.7	4090

Link	Car	Jeepney	Bus	Truck	Total
12-21B	484	728	125	123 25	1460 479
12-22 12-23	133 351	284 444	37 87	25 97	979
12-29	604	674	244	163	1685
13~12A	4230	512	1452	1461	7655
13-12B	2468	440	1005	990	4903
13-12C	2468	440	1005 1257	990 1510	4903 6315
13-12D 13-12E	3076 2944	472 1421	1735	1541	7641
13-12F	2944	1421	1735	1541	7641
13-12G	2944	1421	1735	1541	7641
13-12H	3227	2106	1694	1525	8552
13-12I	2359	1538 1538	1217 1217	1052 1052	6166 6166
13-12J 13-12K	2359 2359	1538 1538	1217	1052	6166
13-21	3023	76	707	754	4560
13-22A	270	260	15	55	600
13-22B	270	260	15	55	600
13-22C	270	260	15	55 715	600 2507
13-23A 13-23B	954 954	391 391	447 447	715	2507 2507
13-23E 13-23C	954	391	447	715	2507
13-24	1869	37	511	803	3220
13-51	0	0	0	0	. 0
14-12A	3826	828	1157	1434	7245
14-12B	4203	1506 1506	1299 1299	1475 1475	8483 8483
14-12C 14-12D	4203 4203	1506	1299	1475	8483
14-12E	4230	512	1452	1461	7655
14-21A	528	284	232	211	1255
14-21B	528	284	232	211	1255
14-21C	504	261	232	151	1148 1148
14-21D 14-21E	504 685	261 417	232 345	151 294	1741
14-21E 14-21F	875	372	186	418	1851
14-21G	1312	1048	222	700	3282
14-22A	806	556	161	283	1806
14-22B	945	709	240	501	2395
14-22C 14-22D	945 945	709 709	240 240	501 501	2395 2395
14-24A	472	413	93	177	1155
14-24C	1869	37	511	803	3220
14-25A	180	156	113	143	592
14-25B	581	397	117	252	1347
14-26A 14-27	24 24	23 23	0	60 60	107 107
14-27 14-28A	589	454	395	557	1995
14-28B	589	454	395	557	1995
14-28C	589	454	395	557	1995
14-29A	2409	2312	347	953	6021
14-29B 14-29C	$\begin{array}{c} 1440 \\ 328 \end{array}$	1469 155	165 100	523 192	3597 775
14-29C 14-30A	984	845	271	434	2534
14-30B	732	298	207	218	1455
14-31A	252	547	65	216	1080
14-31B	350	464	47	83	944
14-32	1869	37	511	803	3220
14-52 14-57	472 1366	413 544	93 266	177 534	1155 2710
21-11A	777	252	467	297	1793
21-11B	777	252	467	297	1793
21-11C	875	741	452	284	2352
21-11D	744	299	438	589	2070
21-11E	908	592 502	526 526	643	2669 2669
21-11F 21-11G	908 178	592 221	526 131	643 232	762
21-11G 21-11H	178	221	131	232	762
	178	221			762

Link	Car	Jeepney	Bus	Truck	Total
21-12A 21-12B	45 45	71 71	17 17	27 27	160 160
21-12C	183	89	85	240 240	597 597
21-12D 21-21A	183 1078	89 1055	85 294	633	3060
21-21B	340	953	80	204	1577 2473
21-21C 21-22A	591 183	1430 89	186 85	266 240	597
21-22B	183	89	85	240	597
21-23B 21-24A	76 301	107 246	34 184	299 252	516 983
21-24B	301	246	184	252	983
21-30A 21-30B	$\frac{1152}{210}$	906 212	296 44	579 33	2933 499
21-306	1136	854	295	588	2873
21-32 21-52	468 - 251	635 476	121 106	160 63	1384 896
21-52	251 251	476	106	63	896
21-91A	3	2 2	1 1	$\frac{1}{1}$	7
21-91B 22-11A	1175	606	470	766	3017
22-11B	1378	801 869	469 214	775 667	3423 3141
22-11C 22-11D	1391 1059	535	635	316	2545
22-11E	1059	535	635 635	316 316	2545 2545
22-11F 22-11G	1059 1199	535 639	645	392	2875
22-11H	1199	639	645	392 330	2875 2192
22-11I 22-11J	943 943	429 429	490 490	330	2192
22-11K	943	429 252	490 467	330 297	2192 1793
22-11L 22-21	777 329	328	44	75	776
22-22A	1198	716 737	310 311	585 585	2809 2840
22-22B 22-22C	1207 1207	737	311	585	2840
22-23 22-25A	9 483	21 369	1 174	0 184	31 1210
22-25B	74	40	26	27	167
22-28A 22-28B	166 166	177 177	23 23	34 34	400 400
22-29A	1207	737	311	585	2840
22-29B 22-29C	1051 1051	782 782	271 271	555 555	2659 2659
22-29D	1051	782	271	555	2659
22-29E 22-56	1136 74	854 40	295 26	588 27	2873 167
22-57A	57	18	28	28	131
22-57B 22-91	3 57	2 18	1 28	1 28	131
22-92	3	2	1	1	7
23-11A	935 1263	89 244	367 467	588 779	1979 2753
23-11B 23-11C	1263	244	467	779	2753
23-11D 23-11E	1788 1788	1601 1601	489 489	777 777	4655 4655
23-11F	1788	1601	489	777	4655
23-11G	1373 1175	1201 606	483 470	800 766	3857 3017
23-11H 23-21	317	885	40	132	1374
23-22	328	155 13	100 79	192 65	775 377
23-23 23-24A	220 42	18	16	22	98
23-24B	42 42	18	16 16	22	98 98
23-24C 23-24D	42	18 18	16	22 22	98
24-21AX	329 179	328 115	44 48	75 150	776 492
24-21AY	1/9	113	40		7.76

Link	Car	Jeepney	Bus	Truck	Total
24-21B	179	115	48	150	492 492
24-21C 24-21D	179 76	115 24	48 30	150 28	492 158
24-21E	76 76	24	30	28	158
24-23B	42	1.8	16	22	98
24-91 31-21A	42 5714	18 1573	16 1077	22 2057	98 10421
31-21B	2869	908	1251	1173	6201
31-21C	2869	908	1251 1450	1173	6201 9219
31-22A 31-22B	3737 3737	2206 2206	1450	1826 1826	9219
31-22C	3737	2206	1450	1826	9219
31-22D 31-22E	3737 1140	2206 1348	1450 2033	1826 1153	9219 5674
31-22F	1140	1348	2033	1153	5674
31-25B 31-25C	610 15	281 13	244 17	187 9	1322 54
31-250	15	13	17	9	54 54
31-52	19	16	27	10	72
32-01A 32-01B	62077 62077	7673 7673	6515 6515	10203 10203	86468 86468
32-01C	62077	7673	6515	10203	86468
32-01D 32-01E	41403 41403	5095 5095	4367 4367	6735 6735	57600 57600
32-01E 32-11A	22178	2281	1561	3507	29527
32-11B	7711	1328	1004	1957	12000
32-11C 32-11D	7711 6333	1328 2007	1004 1008	1957 1816	12000 11164
32-11E	6333	2007	1008	1816	11164
32-11F	3565	40	1008	1832	6445
32-12A 32-12B	0	0	0	0	0
32-12C	0	0	0	0	· · O
32-12D 32-12E	0	0	0	0 0	0. 0
32-12F	0	Ô	0	ŏ	ő
32-12G 32-25	$\begin{array}{c} 0 \\ 111 \end{array}$	0 18	0	. 0	163
32-26A	1733	1004	9 19	25 344	163 3100
32-26B	90	27	12	23	152
32-27A 32-27B	90 90	27 27	12 12	23 23	152 152
33-11A	3565	40	1008	1832	6445
33-11B 33-11C	5985 5095	1059 1062	1284 1278	2803 2118	11131 9553
33-11D	3082	872	1157	1347	6458
33-11E	3082	872	1157	1347	6458
33-11F 33-11G	3082 3082	872 872	1157 1157	1347 1347	6458 6458
33-11H	2492	673	891	1088	5144
33-11I 33-11J	2492 935	673 89	891 367	1088 588	5144 1979
33-11K	935	89	367	588	1979
33-21A	2543	179	278	1051	4051
33-21B 33-23A	2543 1417	179 1300	278 9	1051 849	4051 3575
33-23B	1417	1300	. 9	849	3575
33-23C 33-24A	1417 588	1300 738	9 89	849 312	3575 1727
33-24B	588	738	89	312	1727
33-24C	301	218	89	136	744
33-24D 33-25	237 66	223 10	72 33	121 29	653 138
33-29A	732	298	207	218	1455
33-29B 33-29C	732 732	298 298	207 207	218 218	1455 1455
33-29D	732	298	207	218	1455
33-30A	350	464	47	83	944
		<del></del>	· <del></del>		

Link	Car	Jeepney	Bus	Truck	Total
33-30B 33-56A	350 174	464 122	47 54	83 48	944 398
33-56B	174	122	54	48	398
34-01A	41403	5095	4367	6735 6735	57600 57600
34-01B 34-01C	41403 6523	5095 887	4367 1616	2585	11611
34-12A	0	0	0	0	0
34-12B 34-12C	0 0	0 .	0	0 0	0
34-12D	28992	8923	2825	4840	45580
34-12E 34-12F	10745 1366	7780 1309	1751 32	1986 321	22262 3028
34-12G	7890	2196	1648	2906	14640
34-21A 34-21B	5714 5714	1573 1573	1077 1077	2057 2057	10421 10421
34-21C	5714	1573	1077	2057	10421
34-22A	34742 8503	4258 2427	3195 843	5905 1702	48100 13475
34-22B 34-22C	8503	2427	843	$\bar{1}70\bar{2}$	13475
34-22D	8613	2445 179	852 278	1726 1051	13636 4051
34-22E 34-22F	2543 2543	179 179	278 278	1051	4051
34-27	111	18	9	25	163
34-31B 35-12A	6523 7890	887 2196	1616 1648	2585 2906	11611 14640
35-12B	7890	2196	$\bar{1}648$	2906	14640
35-12C 35-12D	7623 3962	2139 645	1618 1325	2822 1547	14202 7479
35-12E	3962	645	1325	1547	7479
35-12F 35-12G	3962 3826	645 828	1325 1157	1547 1434	7479 7245
35-12H	3826	828	1157	1434	7245
35-21	539 1417	155 1300	101 9	154 849	949 3575
35-22A 35-22B	1417	1300	9	849	3575
35-23A	2657	262	553 553	1086 1086	4558 4558
35-23B 35-23C	2657 589	262 454	395	557	1995
35-24A	855	57	622	184	1718 1718
35-24B 35-24C	855 1366	57 544	622 266	184 534	2710
36-21A	2869	908	1251	1173	6201
36-21B 36-22A	2001 1228	399 697	942 396	128 272	3470 2593
36-22B	528	284	232	211	1255
36-23	539 15	155 13	101 17	154 9	949 54
36-51 41-21	66	10	33	29	138
41-22 41-23A	237 287	223 133	72 75	121 283	653 778
41-23B	262	129	67	274	732
41-24	76	24 11	30 71	28 71	158 290
41-51 41-91	137 71	1	38	42	152
41-92	57	18	28	28 2412	131 24258
42-11A 42-11B	18020 6955	1623 1269	2203 1214	1627	11065
42-21A	12739	1580	1038	1406	16763
42-21B 42-21C	8712 8712	2291 2291	674 674	1295 1295	12972 12972
42-21D	5561	1664	846	1993	10064
42-21E 42-21F	5561 5561	1664 1664	846 846	1993 1993	10064 10064
42-21G	6780	2814	920	2239	12753
42-22A	2150 2150	713 713	220 220	410 410	3493 3493
42-22B 42-22C	2150	713	220	410	3493
42-22D	1	0	0	0	1

ALLENDIX 0.71	1010111	. 110/11/10 00			(0,0)
Link	Car	Jeepney	Bus	Truck	Total
42-23B 42-23C 42-23D 42-23E 42-23F	2163 2163 562 562 562	1889 1889 1715 1715 1715	135 135 30 30	19 19 464 464 464	4206 4206 2771 2771 2771
42-23G 42-24A 42-24B 42-24C 42-25A	562 3389 3389 2159 1675	1715 970 970 745 272	30 315 315 99 346	464 390 390 231 173	2771 5064 5064 3234 2466
42-25B 42-25C 42-29C 42-30A 42-30B 42-31	1675 1675 1231 1231 1704 28	272 272 1165 1165 488 7	346 346 76 76 170	173 173 251 251 692 10	2466 2466 2723 2723 3054 55
42-33 42-36 42-37A 42-91	155 2163 2151 1	158 1889 713 0	26 135 220 0	43 19 410 0	382 4206 3494 1
43-21A 43-21B 43-21C 43-21D 43-21E 43-21F	5871 5871 4582 4582 5249 2150	3043 3043 2860 2860 2724 713	1883 1883 1702 1702 772 220	597 597 505 505 937 410	11394 11394 9649 9649 9682 3493
43-21G 43-22A 43-22B 43-23A 43-23B	2150 13904 13904 1848	713 9164 9164 554 0	220 2941 2941 763 0	410 1893 1893 363 0	3493 27902 27902 3528
43-23D 43-26A 43-26B 43-27A 43-27B 43-28A 43-28B 43-29A	3565 1994 1994 3283 1735 422 2041	2048 1095 1095 1277 897 373 776	689 27 27 208 31 1 189	535 452 452 544 387 50 220	6837 3568 3568 5312 3050 846 3226
43-29B 43-31A 43-31B 43-31C 43-32 44-02A 44-02B 44-02C 44-02D	1 4217 4217 2058 2159 28651 24071 24071 17940	0 2298 2298 1554 745 5927 3149 3149	0 112 112 14 99 3554 2958 2958 2194	0 879 879 647 231 4357 3289 3289 2404	7506 7506 7506 4273 3234 42489 33467 33467 24123
44-11A 44-11B 44-11C 44-11D 44-11E 44-11F	0 6574 1040 8080 80 18020	3872 745 3023 38 1623	0 623 20 797 9 2203	$egin{smallmatrix} 0 \\ 1520 \\ 226 \\ 1477 \\ 8 \\ 2412 \\ \end{matrix}$	0 12589 2031 13377 135 24258
44-11G 44-11H 44-11I 44-11J 44-21 44-23A	6955 7161 6351 6351 6574 8440	1269 3316 1121 1121 3872 3149	1214 1546 1173 1173 623 808	1627 1654 1596 1596 1520 1644	11065 13677 10241 10241 12589 14041
44-23B 44-24A 44-24B 44-24C 44-24D 44-24E	2058 8160 8300 8132 2087 1424	1554 3062 2452 4401 1960 1576	14 806 797 1087 172 127	1485 1485 1356 1332 534 358	14273 13513 12905 14952 4753 3485
44-24F 44-25 44-26B	1424 206 206	1576 2047 2047	127 331 331	358 27 27	3485 2611 2611

Link	Car	Jeepney	Bus	Truck	Total
44-26C	206 79	2047 70	331 2	27 114	2611 265
44-27A 44-27B	79 79	70 70	2	114	265
44-27C	79	70	2 2	114	265
44-29A 44-29B	1026 1026	818 818	140 140	256 256	2240 2240
44-31A	476	632	46	122	1276
44-31B	553	213 17	39 12	92 9	897 134
44-32 45-11A	96 6351	1121	1173	1596	10241
45-11B	5179	2454	1205	1955	10793
45-11C 45-11D	5672 5672	2478 2478	1214 1214	2098 2098	11462 11462
45-11E	4708	969	1152	1411	8240
45-11F	2815 3090	540 606	1031 1144	1181 1270	5567 6110
45-11G 45-11H	2954	943	1133	1363	6393
45-11I	2954	943	1133	1363	6393 928
45-11J 45-11K	365 365	200 200	81 81	282 282	928
45-21A	553	213	39	92	897
45-21B 45-21C	661 137	217 11	93 71	146 71	1117 290
45-23	1704	488	170	692	3054
45-25A	389 829	416	47	667 666	1519 2069
45-25B 45-25C	829 881	522 531	52 54	755	2221
45-25D	874	440	97	715	2126
45-27 45-28	79 1026	70 818	2 140	114 256	265 2240
45-29	856	426	131	228	1641
45-30B	561 561	466	128 128	254 254	1409 1409
45-30C 45-30D	242	466 154	49	58	503
45-30E	271	167	55	57 41	550 444
45-31 45-32A	188 0	183 0	32 0	41 0	0
45-32B	2226	898	766	923	4813
45-51A 45-51B	331 107	79 4	113 53	141 54	664 218
45-53A	2197	900	746	907	4750
45-53B 45-54	163 137	31 11	62 71	43 71	299 290
45-54 45-91	96	17	12	9	134
45-92	44	17	19	10 923	90 4813
45-93 46-21A	2226 6852	898 6040	766 712	1224	14828
46-21C	1312	923	192	240	2667
46-22AX 46-22AY	6852 77	6040 18	712 10	1224 19	14828 124
46-22B	1374	922	202	256	2754
46-22C	476 476	632 632	46 46	122 122	1276 1276
46-22D 46-22E	476	632	46	122	1276
46-25A	8307	10485	79	3760	22631 134
46-25B 46-25C	96 96	17 17	12 12	9 9	134
46-25D	96	17	12 12	9	134
46-25E 46-26A	96 1312	17 923	12 192	9 240	134 2667
46-26B	1312	923	192	240	2667
51-11A	1945	1055	754 736	721 686	4475 4483
51-11B 51-11C	1864 1864	1197 1197	736 736	686	4483
51-11D	1706	794	603	418	3521
51-11E 51-11F	1706 1706	794 794	603 603	418 418	3521 3521
51-11G	941	823	311	318	2393
51-11H	941	823	311	318	2393

Link	Car	Jeepney	Bus	Truck	Total
51-21A 51-22	136 136	309 309	43 43	61 61	549 549
51-23A	0.	0	0	0	0
51-23B 51-24	136	309 309	43 43	61 61	549 549
51-25	136 297	155	145	202	799
51-27A	1043 1234	313 1483	311 394	119 261	1786 3372
51-27B 51-28A	1234	1483	394	261	3372
51-28B 51-28C	1234 293	1483 137	394 33	261 52	3372 515
51-29	1	0	0	1	. 2
51-51 52-11A	60 365	121 200	1 81	4 282	186 928
52-11B	365	200	81	282	928
52-11CX 52-11CY	258 137	506 810	58 46	90 22	912 1015
53-11A 53-11B	137	810	46	22	1015
53-11B 53-11C	2210 0	1745 0	745 0	902 0	5602 0
53~11D	Ō	0	Ō	Ō	Ō
53-11E 53-11F	0 1588	$\begin{array}{c} 0 \\ 1236 \end{array}$	0 602	0 613	0 4039
53-11G	2191	1720	744	824	5479
53-11H 53-11I	2191 1945	1720 1055	744 754	824 721	5479 4475
53-11J	1945	1055	754	721	4475
53-21 53-22A	2342 2226	2100 898	792 766	924 923	6158 4813
53-22B	2226	898	766.	923	4813
53-24A 53-24B	2342 2839	2100 3200	792 694	924 1668	6158 8401
53-25A	621	520	147	214	1502
53-25B 53-25C	621 293	520 137	147 33	214 52	1502 515
53~27A	914	656	179	266	2015
53-27B 53-27C	$\frac{1162}{165}$	802 103	251 3	343 37	2558 308
53-28A	258	176	73	79	586
53-28B 53-29A	122 165	88 103	33 3	38 37	281 308
53-29B	4	1	. 0	1	6
53-30 53-52	286 946	191 723	44 226	75 281	596 2176
53-53 53-94A	381	264	106	117	868 281
53-94A 53-94BX	122 122	88 88	33 33	38 38	281
53-94BY	168	103	4	37	312
53-96 54-11A	286 941	191 823	$\begin{array}{c} 44 \\ 311 \end{array}$	75 3 <b>18</b>	596 2393
54-11B 54-11C	738	789 812	282	368	2177
54-11C 54-11D	494 420	735	160 137	346 316	1812 1608
54-11E 54-11F	420 328	735 658	137	316	1608
54-11G	478	578	105 178	267 296	1358 1530
54-11H 54-11I	386 386	351 351	127 127	193 193	1057
54-21	337	491	41	133	1057 1002
54-23 54-24A	115 74:	80 77	30	34	259
54-24B	74	77	23 23	30 30	204 204
54-27 54-28	95 6	78 1	32	51 1	256
54-29A	74	77	23	30	8 204
54-29B 54-30	6 154	301	0 51	103	8
54-51	60	121	1	4	609 186
54-52 54-92	4 1	1 0	0	1 1	6 2
J+ - J &	· L	U	· · · · · · · · · · · · · · · · · · ·	т	4

ALLENDIA O. I.Z.	1010/12 11	William Condition	* *************************************	20.0	(, 0,
Link	Car	Jeepney	Bus	Truck	Total
12-21B 12-22 12-23 12-29 13-12A 13-12B 13-12C 13-12C 13-12F 13-12F 13-12F 13-12F 13-12H 13-12J 13-12J 13-12J 13-21 13-22A 13-22A 13-22A 13-23A 13-23B	575 161 414 766 5528 3136 3136 3136 3680 3680 4049 2923 2923 4019 342 342 1254	886 343 543 873 650 561 561 1792 1792 1792 2700 1983 1983 1983 1983 1983 338 338 338 338 543	152 45 107 314 1857 1268 1268 1257 2152 2152 2152 2152 2152 2152 21538 1538 1538 1538 1538 1538 1538 1538	139 28 111 187 1776 1171 1171 1789 1825 1825 1825 1821 1211 1211 1211 1211	1752 577 1175 2140 9811 6136 61300 9449 9449 10655 7655 7655 7655 7652 3189
13-23C 13-24 13-51	1254 2330 0	543 46 0	571 640 0	821 955 0	3189 3971 0
14-12A 14-12B 14-12C 14-12D 14-12D 14-21B 14-21C 14-21C 14-21C 14-21F 14-22F 14-22B 14-22C 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-22B 14-23B 14-23B 14-23B 14-23B 14-23B 14-23B 14-23B 14-25B 14-33B 14-33C 14-33C 14-33C 14-33C 14-33C 14-35C 14	49874 54774 54774 554774 556663332 116201 11145 11145 11145 1115 1115 1115 1115	1036 1812 1812 1812 1850 3555 327 513 437 1243 670 843 843 481 474 28 532 27754 1021 1371 650 546 481 640	1482 16551 166551 16859555041 18222995504221 19911305000777750221110032 14772022111100477750213327543318	17899 177899 177899 177899583355551999777795091865331 16252695031	9257 10726 1
21-11A 21-11B 21-11C 21-11D 21-11E 21-11F 21-11G 21-11H 21-11I	1003 1003 1089 941 1148 1148 218 218 218	325 325 926 383 755 755 278 278 278	612 612 566 560 674 674 162 162	328 328 344 684 748 748 262 262 262	2268 2268 2925 2568 3325 325 920 920

APPENDIX 0, 12	FOTONG IN	ALLIC ACCOMICO	With thoject	. ~ 2010	(0/0)
Link	Car	Jeepney	Bus	Truck	Total
		## ST   ## ST	21 106 1066 31066 1066 1063 1063 1063 106	Truck  31 278 278 278 763 247 322 278 238 278 283 703 38 712 188 75 75 1 956 961 385	192 192 721 721 3834 2090 3244 721 611 1195 37012 3635 1775 1154 1154 88 3850 4052 3366
22-11E 22-11F 22-11H 22-11H 22-11J 22-11L 22-11L 22-22A 22-22B 22-22C 22-23 22-25B 22-25B 22-25B 22-25B 22-29B 22-29B 22-29B 22-29B 22-29B 22-29B 22-29B	1415 1415 1615 1625 1225 12225 1003 1516 1516 6 93 1522 1322 1322 1322 1439 1549 1549 1549 1549 1549 1549 1549 154	706 7067 8377 8558 555527 4522 44222 4523 90222 10022 1115 25	860 8888 8886 6442 6555 3887 3333 33333 33333333333333333333	385 385 475 367 367 328 709 709 213 39 7073 673 6712 35	3366 33669 338099 379968 2279 22222 155644 355355 52229 353544 33353 33354 2175
22-57B 22-91 23-91 23-11A 23-11B 23-11C 23-11F 23-11F 23-11H 23-21 23-22 23-23 23-24A 23-24B 23-24C 23-24C 23-24C 23-24A	76 1188 1590 1590 2302 2302 2743 1501 387 402 282 53 53 4425	2 25 2111 305 305 2216 2216 2216 1556 795 1135 194 17 22 22 22 22 457 149	1 39 463 585 5820 6220 623 599 1226 121 211 2125 64	1 35 744 984 979 979 979 956 153 240 30 30 30 3174	8 175 8 2506 3464 3464 6117 6117 4906 3851 1724 958 483 126 126 126 1047 612

AFFEINDIX 0.12	FOI ONE IN	AFFIC VOLUMES	with Project	~ 2010	(4/0)
Link	Car	Jeepney	Bus	Truck	Total
24-21B 24-21C 24-21C 24-21E 24-21B 24-91 31-21A 31-21B 31-22A 31-22B 31-22C 31-22B 31-22F 31-22F 31-25B 31-25C 31-25C 31-21B 31-21C 31-11C	225 225 88 88 53 53 7278 3683 4716 4716 4716 4716 1657 747 18 27 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174 80174	149 149 26 26 22 29 1923 1152 1152 2721 2721 2721 2721 2721 1915 350 16 16 23 10002 10002 10002 10002 10002 10002 10002 10002 10002 10002 10002 10002	64 64 37 37 37 21 1379 1602 1845 1845 1845 1845 1845 1845 1888 3 20 30 30 30 1 8301 8301 8301 8301 1277 1277 1277 1277	174 174 34 30 30 2620 1447 2313 2313 2313 2313 1490 240 111 13 13327 13327 13327 13327 13327 13327 2415 8686 4592 25998 2415 0	612 612 185 185 126 126 13200 7884 7884 11595 11
32-12B 32-12C 32-12D 32-12F 32-12F 32-12F 32-26A 32-26A 32-27A 32-27A 33-11B 33-11D 33-11D 33-11H 33-11J 33-11J 33-11J 33-11J 33-21A 33-21A 33-21A 33-21A 33-21A 33-21A 33-21A 33-21A 33-23A 33-24A 33-24A 33-24A 33-24A 33-24A 33-29A 33-29D 33-29D 33-30A	00 00 00 00 1615 12423 1223 1223 1241 12421 1233 481820 38891 31388 31888 3188	00 00 00 00 24 1408 37 37 49 1402 1365 1108 1108 1108 818 1111 233 1787 1787 1787 1787 1787 1787 1787 17	00 00 00 13 217 117 1277 16317 14688 14688 14688 14688 1463 1111 1006 1006 1006 1111 1006 1006 10	00000000000000000000000000000000000000	000 000 22055 43005 22055 43005 85949 85949 8008 8008 8008 8008 8008 8005 8005 800

APPENDIX 8.12	FUTURE IN	MELIC AOLOIMES	WILL TOJOUL	2010	(0,0)
Link	Car	Jeepney	Bus	Truck	Total
Link  33-56B 33-56B 33-56B 33-51B 34-01B 34-012B 34-12B 34-12B 34-122F 34-122F 34-122F 34-122F 34-221B 34-122F 34-221B 34-122F 34-221B 34-221B 34-222B 34-222F 34-222B 35-223B 35-224B	Car 410 190 1938 3238 8 0 0 0 4495 3238 8 123645 8 123778 1123778 1123778 1123778 1123778 1123778 1123778 1133 1133 113478 1133 113478	555 1255 66055 11 0 0 0 116790 116390 116390 116390 116390 11923 11923 11923 11923 11923 11923 11923 11923 11936 11936 11936 11937 11938 1	507 5577 55883 0003343099116633333333333333333333333333333333	962 962 5866 6866 6866 6867 68	1111 424 74117 74117 74117 1450 00 3982 85878 100009933 1322049 177725 180778 1
35-24A 35-24B 35-24C 36-21A 36-21B 36-22A 36-22B 36-23 36-51 41-21 41-22 41-23A 41-23B 41-24 41-51 41-91	999 999 1663 2493 15862 645 18 79 226 3311 388 164 85	70 70 640 1152 517 885 355 191 16 13 203 158 159 26 14	745 745 318 1602 1164 512 295 120 40 75 100 94 37 86 46	204 204 651 1447 156 317 243 178 111 33 130 318 308 34 83 50	2018 2018 3270 7884 4330 3300 1555 1134 65 634 907 872 185 347 175 30684
42-11A 42-21A 42-21B 42-21C 42-21D 42-21E 42-21F 42-21G 42-22A 42-22B 42-22C 42-22D	22034 16052 10980 10980 7065 7065 7065 2755 2755 2755	1640 2007 2880 2880 2087 2087 2087 3542 925 925 925	1549 1306 850 850 1064 1064 1157 286 286 286	2001 1751 1592 1592 2338 2338 2338 2625 474 474 474	14158 21116 16302 16302 12554 12554 12554 15924 4440 4440 4440

APPENDIX 6.12	- TOTOBE II	MITIO VOLOMEO	***************************************		
Link	Car	Jeepney	Bus	Truck	Total
42-23B	2701	2410	172 172	22 22	5305 5305
42-23C 42-23D	2701 700	2410 2170	37	525	3432
42-23E	700	2170	37 37	525 525	3432 3432
42-23F 42-23G	700 700	2170 2170	37 37	525 525	3432
42-24A	4305	1242	396	477 477	6420 6420
42-24B 42-24C	4305 2763	1242 962	396 127	280	4132
42-25A	2107	339	436	213	3095 3095
42-25B 42-25C	2107 2107	339 339	436 436	213 213	3095
42-29C	1550	1474	95	292	3411 3411
42-30A 42-30B	1550 2160	1474 635	95 215	292 800	3810
42-31	34	9	12	11	66 473
42-33 42-36	$\frac{194}{2701}$	199 2410	32 172	48 22	5305
42-37A	2756	925	286	474	4441
42-91 43-21A	7595	$\begin{smallmatrix}&&0\\4031\end{smallmatrix}$	0 2425	0 765	14816
43-21B	7595	4031	2425	7.65	14816
43-21C 43-21D	5914 5914	3792 3792	2189 2189	652 652	12547 12547
43-21E	6837	3597	1024	1102	12560
43-21F 43-21G	2755 2755	925 925	286 286	474 474	4440 4440
43-22A	17786	11926	4052	2479	36243
43-22B 43-23A	17786 2409	11926 747	4052 1034	2479 456	36243 4646
43-23B	1	0	0	0	1
43-23D 43-26A	4689 2657	2720 1481	919 36	637. 542	8965 4716
43-26B	2657	1481	36	542	4716
43-27A 43-27B	4338 2290	1720 1199	272 41	655 463	6985 3993
43-28A	554	495	1	65	1115
43-28B 43-29A	2694 1	1045	247 0	271 0	4257 1
43-29B	1	Ō	0	0	1
43-31A 43-31B	5433 5433	2990 2990	145 145	1041 1041	9609 9609
43-31C	2670	2028	18	761	5477 4132
43-32 44-02A	2763 36778	962 7817	127 4547	280 5666	54808
44 <b>-</b> 02B	30476	3988	3732	4198	42394 42394
44-02C 44-02D	30476 22737	3988 2011	3732 2780	4198 2992	30520
44-11A	0	0 5310	0 850	0 2010	0 17129
44-11B 44-11C	8959 1397	1019	26	271	2713
44-11D	10252	3861	996	1905	17014 164
44-11E 44-11F	97 22834	47 2058	11 2790	9 3002	30684
44-11G	8968	1640	1549	2001	14158 17407
44-11H 44-11I	9230 8246	4179 1458	1963 1502	2035 1963	13169
44-11J	8246	1458	1502 850	1963 2010	13169 17129
44-21 44-23A	8959 10736	5310 4046	1011	2108	17901
44-23B	2670	2028	18	761	5477 17178
44-24A 44-24B	10349 10498	3908 3109	1007 995	1914 1771	16373
44-24C	10281	5524	1356	1741	18902
44-24D 44-24E	2676 1827	2478 1982	215 158	631 404	6000 437 <b>1</b>
44-24F	1827	1982	158	404	4371
44-25 44-26B	261 261	2540 2540	414 414	34 34	3249 3249

Link	Car	Jeepney	Bus	Truck	Total
Link 67ABC77CABABABABABABABABABABABABABABABABA	Car 2612 1023 1023 1023 1023 1023 1023 1023 10	Jeepney  2540 89 89 89 1028 774 279 1458 3232 3263 32279 2814 6557 6669 5559 1028 628 204 221 260 1122 7980 1123 7980 1123 7980 1123 7774 14361 211 1123 11340 11521 10010 10010 10017	Bus 413333335844489688228446595803391115548147777777777777777777777777777777	Truck  34 148 148 148 1321 100 1963 12547 1734 1632 1632 1632 1632 1632 1632 1632 1632	Total 3 2492 342255 342255
51-11H	1185	1047	393	378	3003

			- A -		
Link	Car	Jeepney	Bus	Truck	Total
51-21A 51-22	165 165	388	54	71 71	678 678
51-22 51-23 <u>A</u>	0 102	388 0	54 0	′ 0	0/0
51~23B	1.65	388	54	71	678 678
51-24 51-25	165 380	388 198	54 186	71 245	1009
51-27A	1348	398	401	148	2295
51-27B 51-28A	1579 1579	1928 1928	511 511	314 314	4332 4332
51-28B	1579	1928	511	314	4332
51-28C 51-29	364 2	172 0	41 0	58 1	635 3
51-51	70	147	1	4	222
52-11A 52-11B	466 466	243 243	102 102	338 338	1149 1149
52-11CX	326	664	73	107	1170
52-11CY 53-11A	174 174	1062 1062	60 60	25 25	1321 1321
53-11B	2803	1062 2248	942	1098	7091
53-11C 53-11D	0	0	0 0	0 0	0
53-11E	0	. 0	0	0	5006
53-11F 53-11G	2014 2798	1579 2212	763 948	740 1001	5096 6959
53-11H	2798	2212 2212 1340	948	1001	6959 5688
53-11I 53-11J	2490 2490	1340	966 966	892 892	5688
53-21	2970	2727 1122	1001	1124	7822 6030
53-22A 53-22B	2819 2819	1122	967 967	1122 1122	6030
53-24A	2970	2727 4234	1001 885	1124 2082	7822 10900
53-24B 53-25A	3699 807	679	191	265	1942
53-25B 53-25C	807	679 172	191 41	265 58	1942 635
53-25C 53-27A	364 1171	851	232	322	2576
53-27B	1478	1030 133	320	$\begin{array}{c} 412 \\ 44 \end{array}$	3240 390
53-27C 53-28A	209 320	216	4 90	91	717
53-28B	152 209	109 133	40	44 44	345 390
53-29A 53-29B	5	. 1	4 0	1	7
53-30 53-52	359 1220	242 934	55 286	89 334	745 2774
53-53	471	325	131	135	1062
53-94A	152 152	109 109	40 40	44 44	345 345
53-94BX 53-94BY	214	134	5	45	- 398
53-96 54-11A	359 1185	242 1047	55 393	89 378	745 3003
54-11B	928	1006	356	430	2720
54-11C 54-11D	624 530	1031 932	203 174	409	2267 2008
54-11E	530	932	174	372 372	2008
54-11F	415 606	835 733	134 227	314 348	1698 1914
54-11G 54-11H	491	448	163	229	1331
54-11I	491	448	163	229 148	1331 1254
54-21 54-23	422 143	631 101	53 38	40	322
54-24A	94 94	99 99	30	36 36	259 259
54-24B 54-27	118	-98	30 40	60	316
54-28	7 94	1 99	30	36	. 9 259
54-29A 54-29B	7	378	0	1	9
54-30	193 70	378 147	64	120	755 222
54-51 54-52	, o 5	1	1 0	4 1	7
54-92	5 2	0	Ō.	1	3

Link	Car	Jeepney	Bus	Truck	Total
00-22B	51662	23961	8310	3553	87486
01-21A	939	1087	388	213	2627
01-21B	939	1087	388	213	2627
01-22A	817	765	193	91	1866
01-22B	817	765	193	91	1866
01-22C	644	643	90	56	1433 7327
02-21	4963	112	1138	1114	933
02-22	419	421	22	71	
02-23A	1560	696	687	939	3882
	1560	696	687	939	3882
02-23B 02-24A	2346	849	450	792	4437
02-24B	2346	849	450	792	4437
02-24CX	2346	849	450	792	4437
02-24CY	2415	603	451	595	4064
02-24D	1467	297	343	328	2435
02-25A	578	21	170	146	915
02-25B	578	21 21	170 134	146 89	915 587
02-25C 02-26 X	343 367	24	84	83	558
02-26 Y	1042	120	211	157	1530
02-27	190	405	54	31	680
03-21	730	932	236	150	2048
03-22A	198	148	53	45	444
03-22B	365	192	95	66	718
03-23	482	653	126 343	124 328	1385 2435
03-24A 03-24B	1467 1950	297 951	469	452	3822
03-24C	1950	951	469	452	3822
03-25	482	653	126	124	1385
04-21A	456	1390	56	173	2075
04-21B	198	148	53	45	444
04-21C	198	148	53	45	444
04-23A	11	32	1	0	44
04-23B	11	32	1	0	44
05-21A	730	932	236	150	2048
05-21B	875	1189	241	177	2482
05-21C	545	875	159	165	1744
05-21D	545	875	159	165	1744
05-22A	644	643	90	56	1433
05-22B	644	643	90	56	1433
05-23A	453	388	86	114	1041
05-23B	301	325	64	42	732
05-23C	301	325	64	42	732
05-27A	480	286	.76	90	932
	480	286	76	90	932
05-27B 05-27C	813	361	108	190	1472
05-51	813	361	108	190	1472
11-12A	3022	1428	1254	1062	6766
11-12B	3022	1428	1254	1062	6766
11-12C	3022	1428	1254	1062	6766
11-12D	2944	1934	1263	935	7076
11-12E	1876	1077	1078	784 784	4815 4815
11-12F 11-12G	1876 237	1077 352	1078 142	729	1460
11-12H	237	352	142	729	1460
11-12I	59	104	24	34	221
11-21A	1443	1111	197	351	3102
11-21B	813	361	108	190	1472
11-21C	813	361	108	190	1472
12-12A	3506	2461	1862	1375	9204 9319
12-12B	3673	2305	1934	1407	9319
12-12C	3673	2305	1934	1407	
12-12D	3890	2281	1945	1461	9577
	3890	2281	1945	1461	9577
12-12E 12-12F	3890	2281	1945	1461	9577
12-12G	3244	1885	1583	1263	7975
12-12H	3022	1428	1254	1062	6766
12-21A	673	1058	180	155	2066

APPENDIX 8.13	FUTURE TE	RAFFIC VOLUME	S "With Projec	Ct 2020	(2/8)
Link	Car	Jeepney	Bus	Truck	Total
12-21B 12-22 12-23 12-29 13-12A 13-12B 13-12C 13-12D 13-12F 13-12F 13-12H 13-12H 13-12J 13-12J 13-12J 13-22A 13-22A 13-22B 13-22C 13-23A 13-23B 13-23C 13-24	673 190 482 939 6814 3811 4433 4433 4433 4433 4433 4433 4	1058 405 653 1087 795 690 737 2200 2200 2200 3341 2461 2461 2461 112 421 421 421 421 421 696 696 696	180 54 126 388 2269 1538 1538 1592 2592 2592 2592 2592 21862 1862 1862 1862 1862 1862 1862 1862 1862 1862 187 687 7687	155 31 124 213 2089 1358 1358 2074 2115 2115 2115 2115 2117 2117 2117 13775 13	2066 680 1385 2627 11967 7397 9326 11340 11340 11340 12895 9204 9204 9204 7327 933 933 933 3882 3882 3882 3882
13-51 14-12B 14-12B 14-12C 14-12E 14-21B 14-21B 14-221C 14-221C 14-221C 14-221C 14-221C 14-221C 14-221B 14-221C 14-221B 14-221B 14-221C 14-221	056736647733112667336770824495555397755113149770001244995770113149700124491139900124091139900	0 12113 2113 2113 2113 2113 4219 4219 4219 42119 42119 42119 42111117 4222 1222 1222 1222 1222 1222	0 12013 20013 20013 20013 2013 3553 55120 33553 23440 3400 3136 3156 316 316 31765 31765 31765 31766 3	0 2089 2101 2101 22089 273 195 273 195 273 195 2273 195 4680 2279 1829 7122 1426 8093 323 1099 767 777 852 290 290 290	0533375500006547777669444499990665333111111111111111111111111111111111

APPENDIX 6.13	FOTONE III	ALTIO VOLONIES	***************************************		
Link	Car	Jeepney	Bus	Truck	Total
24-21B 24-21C 24-21D	284 284 110	189 189 33	85 85 47	199 199 38	757 757 228
24-21E	110	33	47	38 36	228 147
24-23B 24-91	60 60	27 27	24 24	36	147
31-21A 31-21B	8760 4431	2256 1376	1663 1926	3157 1702	15836 9435
31-21C	4431	1376	1926	1702	9435
31-22A 31-22B	5659 5659	3204 3204	2216 2216	2780 2780	13859 <b>13</b> 859
31-22C 31-22D	5659 5659	3204 3204	2216 2216	2780 2780	13859 13859
31-22E	2182	2470	3723	1820	10195 10195
31-22F 31-25B	2182 874	2470 415	3723 384	1820 291	1964
31-25C 31-51	20 20	18 18	23 23	12 12	73 73
31-52	34	29	48 10003	$\begin{array}{c} \bar{16} \\ 16279 \end{array}$	127 135668
32-01A 32-01B	97174 97174	12212 12212	10003	16279	135668
32-01C 32-01D	97174 64621	12212 8026	10003 6757	16279 10558	135668 89962
32-01E	64621	8026 3532	6757 2375	10558 5418	89962 45324
32-11A 32-11B	33999 13093	2397	1530	3196	20216
32-11C 32-11D	13093 10634	2397 3627	1530 1538	3196 2949	20216 18748
32-11E	10634	3627 59	1538 1538	2949 2965	18748 10229
32-11F 32-12A	5667 0	0	0	0	0
32-12B 32-12C	0	0 0	0 0	0 0	0 0
32-12D 32-12E	0 0	0 0	0	0 0	. 0
32-12F	Ō	· 0	Ŏ 0	Ö 0	0
32-12G 32 <b>-</b> 25	0 214	30	18	34	296
32-26A 32-26B	3097 158	1817 48	34 21	536 34	5484 261
32-27A 32-27B	158 158	48 48	21 21	34 34	261 261
33-11A	5667	59	1538	2965	10229
33-11B 33-11C	9402 7799	1656 1600	1964 1953	4607 306 <b>1</b>	17629 14413
33-11D 33-11E	4664 4664	1308 1308	1764 1764	1877 1877	9613 9613
33-11F	4664	1308	1764	1877	9613
33-11G 33-11H	4664 3764	1308 995	1764 1352	1877 1556	9613 7667
33-11I 33-11J	3764 1442	995 133	1352 558	1556 905	7667 3038
33-11K	1442	133	558	905 1770	3038 6425
33-21A 33-21B	3936 3936	288 288	431 431	1770	6425
33-23A 33-23B	2087 2087	1899 1899	$\begin{array}{c} 14 \\ 14 \end{array}$	1320 1320	532 <u>0</u> 5320
33-23C	2087	1899	14	1320 432	5320 2550
33-24A 33-24B	876 876	1106 1106	136 136	432	2550
33-24C 33-24D	452 371	338 357	136 115	169 150	1095 993
33-25 33-29A	93 1115	16 433	47 305	37 300	193 2153
33-29B	1115	433	305	300	2153
33-29C 33-29D	1115 1115	433 433	305 305	300 300	2153 2153
33-30A	497	652	72	115	1336

APPENDIX 8.13	FUTURE TE	RAFFIC VOLUME	S "With Proje	ct" - 2020	(6/8)
Link	Car	Jeepney	Bus	Truck	Total
42-23B 42-23C 42-23D 42-23E 42-23F 42-23G 42-24A 42-24B 42-24C 42-25A 42-25B 42-25B 42-25B 42-21B 42-31 42-31 42-31 42-31 43-21B 43-21D	3224 3224 833 833 833 5201 5201 3361 2525 2525 2525 2525 2323 333 9242 9242 7183 7183	2919 2919 2614 2614 2614 2614 1510 1510 1177 404 404 1778 1778 1778 1777 10 241 2919 1130 4984 4984 4691 4691	208 208 444 444 475 475 1523 5233 5115 260 38 208 3510 2943 2943 2653	25 583 5883 5883 5883 582 562 335 251 251 2333 9 12 523 9 24 9 24 9 29 7 92 7 92	6376 6376 4074 4074 4074 4074 7748 7748 5023 3703 3703 4087 4087 4547 565 6376 5354 18093 18093 18319 15319
43-21E 43-21F 43-21G 43-22A 43-22A 43-23A 43-23D 43-23D 43-26A 43-26A 43-27A 43-27A 43-27A 43-27A 43-29B	8393 3337 3337 21455 21455 2950 5799 3318 3318 5377 2844 682 33	4452 1130 1130 14557 14557 14557 938 0 3381 1864 2157 1498 613 1308 0	1272 351 351 5137 5137 1300 1145 45 45 335 303 0	1262 534 534 3052 3052 546 738 632 764 538 321 0	15379 5352 5352 44201 44201 5734 11063 5859 8633 4932 1376 5261
43-31A 43-31B 43-31C 43-32 44-02B 44-02B 44-02C 44-02D 44-11A 44-11B 44-11C 44-11C 44-11F 44-11F 44-11F 44-11J 44-11J	6624 6624 3264 3361 44520 36620 27356 11251 1745 12322 1144 27470 10951 11265 10118 10118	3664 3664 2487 1177 9629 4800 2430 6693 46655 2486 2010 5008 1797 1767	177 177 122 155 5503 4480 4480 3351 1068 32 1183 3363 1879 2370 1828 1828	1202 1202 872 330 6933 5085 5085 3562 2479 318 2328 10 3572 2378 2418 2336 2336	11667 11667 6645 5023 666985 50985 36699 21491 3378 20495 36891 17218 21061 16079
44-21 44-23A 44-23B 44-24A 44-24B 44-24C 44-24C 44-24F 44-24F 44-25 44-26B	11251 12931 3264 12436 12589 12327 3252 2220 2220 314 314	6693 4907 2487 4718 3738 6584 2973 2368 2368 2997 2997	1068 1201 22 1196 1182 1608 256 187 187 491 491	2479 2568 872 2338 2184 2148 727 451 451 40	21491 21607 6645 20688 19693 22667 7208 5226 5226 3842

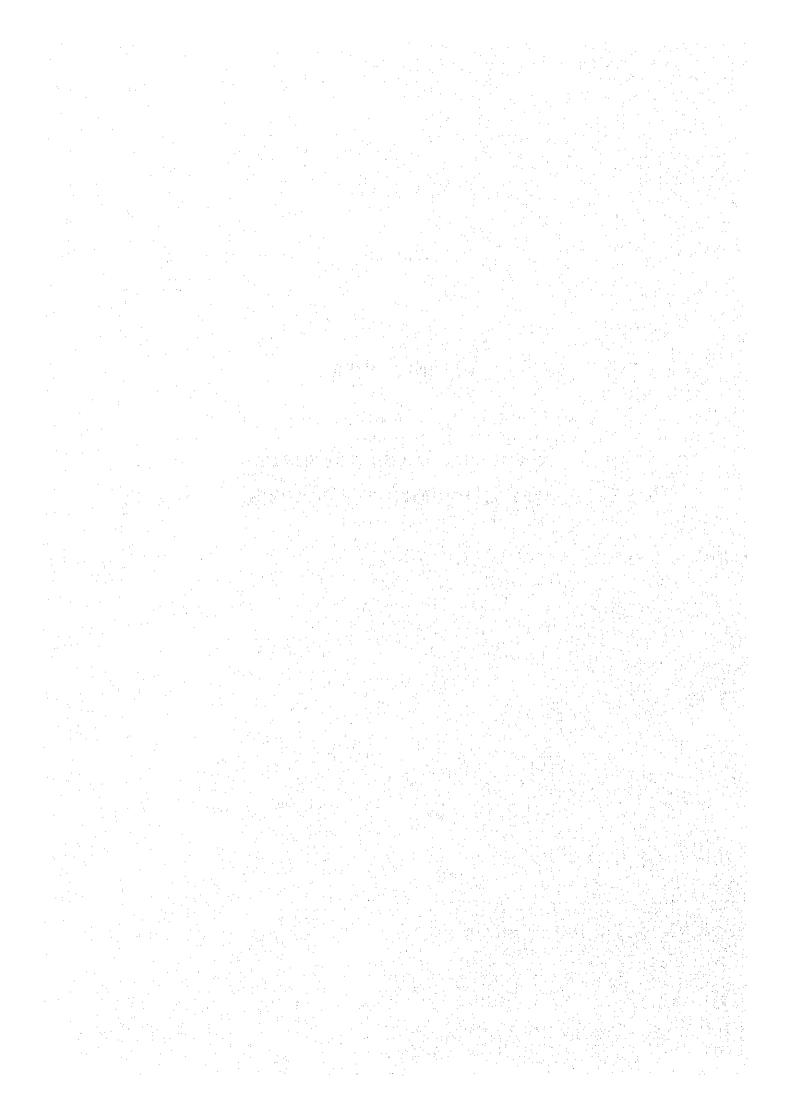
ALLENDIX 0.10	TOTONE IN	ATTIC VOLUMES	vvitil i loje	CL ZUZU	(770)
Link	Car	Jeepney	Bus	Truck	Total
44-27A 44-27B 44-27B 44-27B 44-29B 44-29B 44-31B 44-31B 44-31B 45-11B 45-11B 45-11H 45-11H 45-11H 45-11H 45-11H 45-225B 45-225B 45-225B 45-225B 45-2289 45-2289 45-2289 45-2289 45-2289 45-2300D 45-300D 45-31A 45-31B	314 124 124 1255 1555 1555 1555 1555 10118	2997 1077 1077 1229 3 4257 12295 3 4257 2997 2997 2997 2990 2990 2797 2990 2797 2797	491 33352055861822165861188771215452116889117445217688911726778131660000000000000000000000000000000000	40 181 1887 1887 1683 1683 1683 1683 1683 1683 1683 1683	3842 415 415 3376 1837 1837 160815 17820 12488 91500 12488 91500 12488 91500 1382 1387 1420 4547 2315 33236 32331 32623 3150 79520 7460
45-54 45-91 45-92 45-93 46-21A 46-22AY 46-22AY 46-22B 46-22E 46-22E 46-22E 46-25B 46-25B 46-25B 46-25B 46-25B 46-25B 46-211B 51-11E 51-11F 51-11F 51-11H	202 118 3430 110534 110534 110534 110534 119192 66922 140118 1118 1118 1118 11832 118351 2940 26695 26695 26695 1438	17 25 34 1351 9780 1304 9780 9780 1305 9055 9055 179 225 225 1304 1304 1304 11862 1238 1238 1238 1282	107 1134 1177 1144 11 109 11 109 11 1166 11 1166 11 1157 1157 1157 1157 1157 1157 1157 1	94 124 1340 2352 2128 31428 2128 31688 1688 1694 1122 3558 10024 1024 10290 5990 439 439	420 171 1621 7281 24123 3788 24123 3912 1830 1830 1830 1871 171 171 171 171 3788 3788 3788 378

ALLEIADIV 6119	TOTONE IN	MITTO VOCOMEO	vvitit i rojo		(0,0)
Link	Car	Jeepney	Bus	Truck	Total
51-21A	195	470	64	08	809
51-22 51-23A	$\overline{195}$	470 0	64 0	80 0	809 0
51-23B	195	470	64	80	809
51-24 51-25	195 467	470 244	64 228	80 287	809 1226
51-27A	1660	485	493	176	2814
51-27B 51-28A	1931 1931	2381 2381	630 630	365 365	5307 5307
51-28B	1931	2381	630	365	5307 764
51-28C 51-29	440 2	211 0	49 0	64 1	3
51-51	79 572	174	124	4 395	258 1382
52-11A 52-11B	572 572	291 291	124	395	1382
52-11CX	397	835 1330	89 74	125 29	1446 1647
52-11CY 53-11A	214 214	1330	$\dot{7}\bar{4}$	29	1647
53-11B 53-11C	3414 0	2767 0	$\begin{array}{c} 1141 \\ 0 \end{array}$	1302 0	8624 0
53-11C 53-11D	Ö	ő	0	ŏ	Ō
53-11E 53-11F	0 2455	0 1937	0 927	0 873	$\begin{array}{c} 0 \\ 6192 \end{array}$
53-11G	3426	2724	1157	1181	8488
53-11H 53-11I	3426 3051	2724 1641	1157 1183	$\begin{array}{c} 1181 \\ 1068 \end{array}$	8488 6943
53-11J	3051	1641	1183	1068	6943
53-21 53-22A	3618 3430	3374 1351	$\frac{1215}{1170}$	1332 1330	9539 7281
53-22B	3430	1351	1170	1330	7281
53-24A 53-24B	3618 4579	3374 5296	1215 1079	1332 2498	9539 13452
53-25A	999	844	237	313	2393 2393
53-25B 53-25C	999 440	844 211	237 49	313 64	764
53-27A	1438 1807	1054 1269	286 392	377 479	3155 3947
53-27B 53-27C	256	165	5	52	478
53-28A 53-28B	385 183	260 131	109 49	104 51	858 414
53-29A	256	165	5	52	478
53-29B 53-30	6 436	1 296	0 67	103	8 902
53-52	1504	1153	348	389	3394
53-53 53-94A	568 183	391 131	157 49	156 51	1272 414
53-94BX	183	131	49	51	414
53-94BY 53-96	262 436	165 296	6 67	53 103	486 902
54-11A	1438	1282	478	439	3637
54-11B 54-11C	1126 761	1237 1264	432 249	494 472	3289 2746
54-11D	645	1142	212	429	2428
54-11E 54-11F	645 507	1142 1025	212 164	429 361	2428 2057
54-11G	740	900	279	401	2320 1619
54-11H 54-11I	601 601	552 552	201 201	265 265	1619
54-21	513 172	780	66	165	1524 386
54-23 54-24A	116	122 122	45 37	47 43	318
54-24B 54-27	116 143	122 119	37 48	43 69	318 379
54-28	9	2	0	2	13
54-29A 54-29B	116	122	37 0	43	318 13
54 <b>-</b> 30	9 233	462	78	136	909
54-51 54-52	79 6	174 1	1 0	4 1	258
54-92	2	ō	ŏ	1 1	8

**APPENDIX FOR CHAPTER 10** 

## **APPENDIX 10.1**

## LIST OF PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS



PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS

				Conformity	ů	Criteria	la for Major Activity	ity Cer	Center
	1990	1990	Provincial						
City/Municipality	Population	Population Density	Capital	Population & Density	City	Port	Airport Railway Station	RIC	Tourism
ABRA Bangued	34184	323	*						
BENGUET Baguio City La Trinidad	183102 48252	3744 786	*	*	*		*		*
MOUNTAIN PROVINCE Bontoc Sagada	17716 10353	45 171	*						*
IFUGAO Banaue Lagawe	16943	. 22 38 38	*						*
KALINGA-APAYAO Tabuk	57200	89	*	:					
ILOCOS NORTE Lacag City	83756	859	*	*	*		*		<b>+</b> x
ILOCOS SUR Vigan	38574	1403	*						×
LA UNION Agoo Bauang San Fernando	42698 51573 84949	1092 707 703	*	* *		*		*	* *
PANGASINAN Alaminos Binmaley Calasiao Dagupan City Lingayen Malasiqui Mangaldan San Carlos City	5983 122247 122247 77837 12444 12459 51904	356 1185 12804 1646 1608 1729 6338	*	******	-t× -t×				*
חדתשווברם	וו	2							

PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS

				Conformity	ţ	Criteria	for Major	Activity Center	ter
	1990	1990	Provincial						
City/Municipality	Population	Population Density	Capital	Population & Density	City	Port	Airport Railway Station	RIC	Tourism
CAGAYAN Aparri Santa Ana Tuguegarao	51635 17614 94767	188 116 611	*	*		* *	*		
ISABELA Cauayan Ilagan	83591 99120	220	*				*	*	
NUEVA VIZCAYA Bagabag Bayombong	26028 39886	101 249	*				*		
QUIRINO Cabarroguis	21793	16	*		: : : : : :				
BATAAN Bagac Balanga Dinalupihan Limay Mariveles	18241 51512 58172 32629 60761	311 311 315 315 395	*	*		*		*	* *
BULACAN Baliuag Bocaue Calumpit Malolos Marilao Meycauayan Plaridel San Jose del Monte	89719 67243 125178 125178 123982 142047 91468	1989 832 1321 1492 2348 5188 1117	*	*****			*		
NUEVA ECIJA Cabanatuan City Gapan Guimba Palayan City San Jose City Talavera	173065 70489 73363 20393 82836 77256	898 7255 776 573 691	*	*** *	* **				

PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS

				Conform	Conformity to	Criteria	for	Major Activity Center	ity Cen	ter
	1990	1990	Provincial							
City/Municipality	Population	Population Density	Capital	Population & Density	City	Port	Airport 3	Railway Station	RIC	Tourism
PAMPANGA Angeles City	236685	3925		*	*					
Apalit	62373	1014		*						
Arayat	73189	543		*					-	
Bacolor	67259	938		* ·						
Floridablanca	66146	529		* •						
Guagua	88290	1417		* *						
Kabalacat	12715	70.0		*						
Macabebe	55505	1261		¥						
Mexico	69441	591		*						
San Fernando	157851	1944	*	*	•	:				
TARLAC				ż						
Paniqui Tarlac	64949 208722	555 560 560	*	k *						
2 AMBATES									<u> </u>	
Candelaria	18539	42				•				¥
IDa	29221	061	*			k				4
Masinloc	32375	126		4	ż					ĸ
Olongapo City	1933Z/	18/5 700 1000		¢	¢					*
Subic	46929	168				*				
AURORA										
Baler	24689	184	*			-				
1	00000	7 11 7	+	*	*	*			*	*
bacangas city	70 U	# C	:	*	;					
- Danan	0 to	) r ) u		*						
Liba City	160117	765		*	*					
Santo Tomas	58209	639		*						
Tanauan	92754	865		*						

PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS

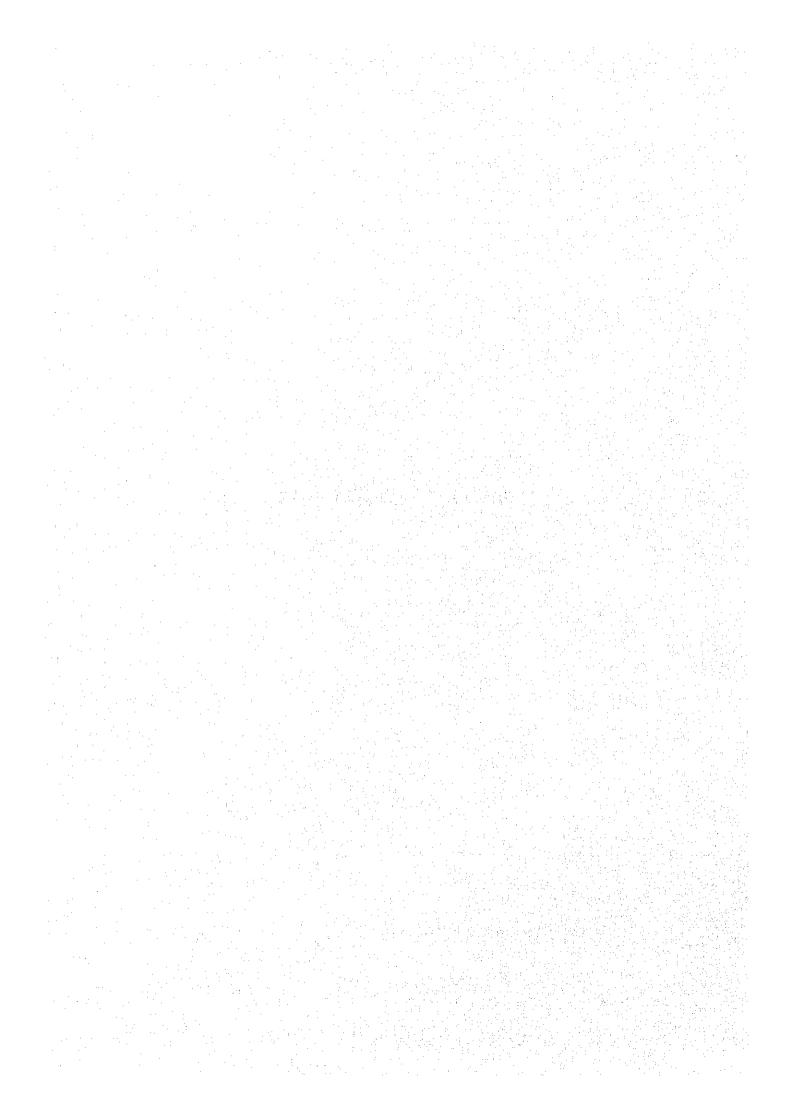
unicipality							•		
	1990	1990	Provincial						
CAVITE	Population	Population Density	capital	Population & Density	city	Port	Airport Railway Station	RIC	Tourism
CAVITE									
	4	1 1						•	
	159685	3793	-	×				ĸ	
Cavite City	9164	7766		*	*			*	
H	136556	1657		*					
Gen. Alvarez	65977	7019		*					
Imas	92125	920		*					
Kawit	47755	3564						*	
Naio	51629	909		*				*	
Noveleta	20409	3644						*	
Rosario	45405	12613						*	
Siland	93790	CCC		*					
Think Cotto	04740	) C			*				*
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.07 7.00 7.00 7.00 7.00	100		*				*	
10000	0 0	1 11							*
Trace Martires City	15686	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	*		*	÷			
7									
LAGUNA									
Binan	134553	3093		*					
Cabutan	66975	207		*					
Calamba	173453	198		*					
Los Banos	66211	1172		*					
Pagsan	25024	948			-				*
San Pablo City	161630	755		*	*		*		
San Pedro	156486	6924		<b>-k</b>					
Santa Cruz	76603	1985	*	*	٠				
Santa Rosa	94719	2422		*					
OUEZON									
Income City	150624	2215	*	*	*		*		
Planidel	7473	226				*			
Tackasa Araba	40221	i i					*		
Tiaono	60662	523		*					
RIZAL									
Antipolo	207842	679		*					
Binangonan	127561	1755		*					
Cainta	126839	12435		*					
San Mateo	82310	1268	:	*					
Tavtav	112403	2897		*					
		1							

PROVINCIAL CAPITALS AND MAJOR ACTIVITY CENTERS

				Confor	nity to	Criter	Conformity to Criteria for Major Activity Center	r Activi	ty Cen	ter
	1990	1990	Provincial							
City/Municipality	Population	Population Density	Capital	Population & Density	city	Port	Port Airport Railway Station	ilway ation	RIC	Tourism
ALBAY Daraga Legaspi City Polangui Tabaco	83928 121116 61556 85697	708 788 424 736	*	** *	+k	* *	*	<b>-</b>	*	*
CAMARINES NORTE Daet	66477	326	#				*			
CAMARINES SUR Del Gallego Iriga City Libmanan Nabua Naga City Pasacao Pili Ragay	17047 74269 77565 60885 115329 31960 41438	2659 1653 1288 1214 152 235	*	* **	* *	*	*	*** * **		
SORSOGON Bulan Matnog Sorsogon	66450 25957 72871	338 160 387	ŧ			* *				+ <b>x</b>







ADI AVEKAGE DAILY IKAFFIC UN	UNDER 200	200-400	-007	400-1000	1000	1000-2000	MORE TH	THAN 2000
OPENING			MINIMUM	DESTRABLE	MINIMUM	DESIRABLE	MINIMIM	DESIRABLE
DESIGN SPEED	(km/h)							
FLAT TOPOGRAPHY	09	92	02	06	80	95	8	100
ROLLING TOPOGRAPHY	07	20	09	80	99	88	2	26
MOUNTAINOUS TOPOGRAPHY	30	0,7	07	50	50.	09	09	0.2
RADIUS	(metre)							
FLAT TOPOGRAPHY	120	160	160	280	220	320	260	350
ROLLING TOPOGRAPHY	55	85	120	520	120	520	160	580
MOUNTAINOUS TOPOGRAPHY	30	50	SG	80	80	120	180	160
GRADE (PERCENT)								
FLAT TOPOGRAPHY	6.0	6.0	5.0	3.0	7.0	3.0	0.4	3.0
ROLLING TOPOGRAPHY	8.0	7.0	6.0	5.0	5.0	5.0	5.0	6.4
MOUNTAINOUS TOPOGRAPHY	10.0	0.6	8.0	6.0	7.0	0.9	2.0	5.0
PAVEMENT WIDTH (m)	4.0	5.5; 6.0	6.10	0	9	6.70	6.70	7.30
SHOULDER WIDTH (m)	0.50	1.00	1.50	2.00	2.50	3,00	3	3.00
RIGHT-OF-WAY WIDTH (m)	50	30	30		30	30		09
SUPERELEVATION (m/m)	0.10	(max.)	0.10	(max.)	0.10	(тах.)	0.10	(max.)
NON PASSING SIGHT DISTANCE (metre)								
FLAT TOPOGRAPHY	92	8	06	135	115	150	135	160
ROLLING TOPOGRAPHY	07	09	22	115	70	115	06	135
MOUNTAINOUS TOPOGRAPHY	07	0,4	07	09	09	20	20	06
PASSING SIGHT DISTANCE	(metre)							
FLAT TOPOGRAPHY	420	067	750	615	260	645	615	675
ROLLING TOPOGRAPHY	270	350	420	995	420	260	067	615
MOUNTAINOUS TOPOGRAPHY	190	270	270	350	360	750	075	067
TYPE OF SURFACING	GRAVEL, CRUSHED GRAVEL OR CRUSHED STONE BIT, PRESERVATIVE TREATMENT, SINGLE OR DOUBLE BIT. SURFACE TREATMENT, BITUMINDUS MACADAM	HED GRAVEL TONE BIT, TREATMENT, UBLE BIT. TMENT, ACADAM	BITUMINOUS MACADAM PAVEMENT, DENSE OR OPEN GRADED PLANT MIX SURFACE COURSE, BITUMINOUS CON- CRETE SURFACE COURSE	ACADAM NSE OR OPEN MIX SURFACE MINOUS CON- E COURSE	BITUMINOUS CONCRETE SURFACE COURSE	CONCRETE RSE	BITUMINOUS SURFACE COU CEMENT CONC	BITUMINOUS CONCRETE SURFACE COURSE, PORTLAND CEMENT CONCRETE PAVEMENT

APPENDIX 12.2 LAND ACQUISITION COSTS (1)

Group No.	Link Length (km)	Type of Project	R.O.W. (m)	Areas (m <sup>2</sup> )	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (F)
2	57.252	WO2	6.0	343,512	5.00	1,717,560
3	65.850	WO2	6.0	395,100	5.00	1,975,500
7	19.150	WO2	6.0	114,900	5.00	574,500
8	48.106	WO2	6.0	288,636	5.00	1,443,180
9	46,420	WO2	6.0	278,520	5.00	1,392,600
10	20.350	WO2	6.0	122,100	5.00	610,500
11	64.188	WO2	6.0	385,128	5.00	1,925,640
12	27.188	WO2	6.0	163,128	5.00	815,640
13	72.025	WO2	6.0	432,150	5.00	2,160,750
14	39.100	WO2	6.0	234,600	5.00	1,173,000
15	42.820	WO2	6.0	256,920	5.00	1,284,600
16	0.300	WO2	6.0	1,800	5.00	9,000
17	100.469	WO2	6.0	602,814	5.00	3,014,070
18	23.905	WO2	6.0	143,430	5.00	717,150
19	35.565	WO2	6.0	213,390	5.00	1,066,950
20	1.242	WO2	6.0	7,452	5.00	37,260
6.1	28.100	WO2	6.0	168,600	5.00	843,000
21	23.000	NO2	30.0	690,000	5.00	3,450,000
	19.200	WO2	6.0	115,200	5.00	576,000
22	47.000	NO2	30.0	1,410,000	5.00	7,050,000
23	104.964	WO2	11.0	1,154,604	20.00	23,092,080
24	3.381	WO4	11.0	37,191	200.00	7,438,200
	55.268	WO4	11.0	607,948	20.00	12,158,960
26	6.141	WO4	11.0	67,551	200.00	13,510,200
					Sub-Total:	88,036,340

APPENDIX 12.2 LAND ACQUISITION COSTS (2)

Group No.	Link Length (km)	Type of Project	R.O.W. (m)	Areas (m²)	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (p)
	55.338	WO4	11.0	608,718	20.00	12,174,360
27	2.912	WO4	11.0	32,032	200.00	6,406,400
	46.851	WO2	6.0	281,106	5.00	1,405,530
28	5.206	WO2	6.0	31,236	20.00	624,720
	20.518	WO4	11.0	225,698	20.00	4,513,960
30	2.280	W04	11.0	25,080	200.00	5,016,000
	18.135	WO4	11.0	199,485	20.00	3,989,700
31	4.534	WO4	11.0	49,874	200.00	9,974,800
33	0.391	WO2	6.0	2,346	200.00	469,200
34	21.715	NE4	6.0	1,302,900	20.00	26,058,000
35	20.004	NE4	6.0	1,200,240	20.00	24,004,800
43	0.700	WO2	6.0	4,200	20.00	84,000
45	4.170	WO2	6.0	25,020	5.00	125,100
47	29.940	NO2	30.0	898,200	5.00	4,491,000
61	11.000	WO2	6.0	66,000	5.00	330,000
63	5.930	WO2	6.0	35,580	5.00	177,900
64	156.500	NO2	30.0	4,695,000	5.00	23,475,000
	7.849	WO2	6.0	47,094	5.00	235,470
71	47.500	NO2	30.0	1,425,000	5.00	7,125,000
72	4.992	NO2	6.0	29,952	5.00	149,760
73	107.974	NO2	30.0	3,239,220	5.00	16,196,100
74	40.000	NO2	30.0	1,200,000	5.00	6,000,000
78	7.3	WO2	6.0	43,800	10.00	438,000
	23.500	NO2	30.0	705,000	5.00	3,525,000
79	29.250	WO2	6.0	175,500	5.00	877,500
					Sub-Total:	157,867,300

APPENDIX 12.2 LAND ACQUISITION COSTS (3)

Group No.	Link Length (km)	Type of Project	R.O.W. (m)	Areas (m²)	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (*)
80	36.469	WO2	6.0	218,814	5.00	1,094,070
82	26.180	WO4	11.0	287,980	10.00	2,879,800
83	24.335	WO4	11.0	267,685	10.00	2,676,850
84	39.684	WO4	11.0	436,524	10.00	4,365,240
·	3,200	WO2	6.0	19,200	5.00	96,000
87	34.900	NO2	30.0	1,047,000	5.00	5,235,000
90	13.062	NE4	60.0	783,720	35.00	27,430,200
91	31.085	NE4	60.0	1,865,100	20.00	37,302,000
	21.161	WO4	11.0	232,771	35.00	8,146,985
93	4.627	NO4	60.0	277,620	20.00	5,552,400
98	6.983	NO2	60.0	418,980	20.00	8,379,600
99	31.627	NO4	60.0	1,897,620	20.00	37,952,400
100	12.971	WO4	11.0	142,681	20.00	2,853,620
	3.416	WO4	11.0	37,576	200.00	7,515,200
102	21.513	NO4	60.0	1,290,780	20.00	25,815,600
	6.232	WO4	11.0	68,552	20.00	1,371,040
104	9.594	NO4	60.0	575,640	20.00	11,512,800
110	39.772	WO2	6.0	238,632	5.00	1,193,160
111	6.465	WO2	6.0	38,790	5.00	193,950
112	9.300	WO2	6.0	55,800	20.00	1,116,000
113	11.148	NO4	60.0	668,880	20.00	13,377,600
115	16.129	NO4	60.0	967,740	20.00	19,354,800
119	8.990	NO2	30.0	269,700	20.00	5,394,000
120	12.453	NO4	60.0	747,180	20.00	14,943,600
	<u> </u>				Sub-Total:	245,751,915

APPENDIX 12.2 LAND ACQUISITION COSTS (4)

Group No.	Link Length (km)	Type of Project	R.O.W. (m)	Areas (m <sup>2</sup> )	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (P)
121	17.772	NE4	60.0	1,066,320	20.00	21,326,400
122	21.291	NE4	60.0	1,277,460	20.00	25,549,200
123	10.425	NE4	60.0	625,500	20.00	12,510,000
124	11.196	NE4	60.0	671,760	20.00	13,435,200
127	48.965	NO2	30.0	1,468,950	5.00	7,344,750
130	1.364	NO2	30.0	40,920	20.00	818,400
131	3,030	NO2	30.0	90,900	20.00	1,818,000
133	52.420	WO2	6.0	314,520	20.00	6,290,400
134	56.306	WO2	6.0	337,836	20.00	6,756,720
· · · · · ·	89.910	NO2	30.0	2,697,300	5.00	13,486,500
135	6.500	WO2	6.0	39,000	20.00	780,000
136	118.700	NO2	30.0	3,561,000	5.00	17,805,000
137	27.905	NE4	60.0	1,674,300	35.00	58,600,500
138	19.766	NE4	60.0	1,185,960	35.00	41,508,600
142	3.300	WO4	11.0	36,300	200.00	7,260,000
	1.670	WO2	6.0	10,020	20.00	200,400
144	40.300	NO2	30.0	1,209,000	5.00	6,045,000
148	6.137	WO2	6.0	36,822	5.00	184,110
:	5,637	WO2	6.0	33,822	20.00	676,440
149	30.600	NO2	30.0	918,000	10.00	9,180,000
•	14.420	WO2	6.0	86,520	20.00	1,730,400
152	29.300	NO2	30.0	879,000	20.00	17,580,000
154	10.105	NE4	60.0	606,300	35.00	21,220,500
155	16.633	WO4	11.0	182,963	200.00	36,592,600
·					Sub-Total:	328,699,120

APPENDIX 12.2 LAND ACQUISITION COSTS (5)

Group No.	Link Length	Type of	R.O.W.	Areas	Unit Cost	R.O.W. Cost
	(km)	Project	(m)	(m <sup>2</sup> )	(P/m <sup>2</sup> )	(₮)
156	22,399	WO4	11.0	246,389	35.00	8,623,615
157	5.410	WO4	11.0	59,510	200.00	11,902,000
160	24.510	WO4	11.0	269,610	35.00	9,436,350
162	11.036	WO4	11.0	121,396	10.00	1,213,960
166	16.206	NO2	30.0	486,180	5.00	2,430,900
169	14.695	NE4	60.0	881,700	35.00	30,859,500
170	14.918	NE4	60.0	895,080	35.00	31,327,800
171	1.798	WO4	11.0	19,778	200.00	3,955,600
177	5.010	WO2	6.0	30,060	5.00	150,300
180	18.900	WO2	6.0	113,400	5.00	567,000
181	5.850	WO2	6.0	35,100	5.00	175,500
101	36.000	NO2	30.0	1,080,000	5.00	5,400,000
182	37.100	NO4	60.0	2,226,000	35.00	77,910,000
183	12.432	NE4	60.0	745,920	35.00	26,107,200
. 163	3.108	NE4	60.0	186,480	200.00	37,296,000
184	16.180	NE4	60.0	970,800	20.00	19,416,000
105	24.327	WO4	11.0	267,597	20.00	5,351,940
185	3.603	NO4	60.0	216,180	5.00	1,080,900
106	12.579	WO4	11.0	138,369	5.00	691,845
186	1.294	NO4	60.0	77,640	5.00	388,200
105	32.209	WO4	11.0	354,299	35.00	12,400,465
187	20.478	NO4	60.0	1,228,680	5.00	6,143,400
190	12.000	WO2	6.0	72,000	20.00	1,440,000
191	10.900	WO2	6.0	65,400	10.00	654,000
					Sub-Total:	294,922,475

APPENDIX 12.2 LAND ACQUISITION COSTS (6)

Group No.	Link Length (km)	Type of Project	R.O.W. (m)	Areas (m <sup>2</sup> )	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (F)
192	13.700	WO2	6.0	82,200	10.00	822,000
193	60.282	WO2	6.0	361,692	10.00	3,616,920
194	15.962	WO2	6.0	95,772	5.00	478,860
195	29.770	WO2	6.0	178,620	5.00	893,100
	6.900	WO2	6.0	41,400	5.00	207,000
196	54.100	NO2	30.0	1,623,000	5.00	8,115,000
197	35.570	WO2	6.0	213,420	5.00	1,067,100
198	21.060	NO2	30.0	631,800	5.00	3,159,000
	25.200	WO4	11.0	277,200	5.00	1,386,000
199	41.960	NO4	60.0	2,517,600	5.00	12,588,000
	1.500	WO2	6.0	9,000	20.00	180,000
200	31.200	NO2	30.0	936,000	5.00	4,680,000
201	81.800	NO2	30.0	2,454,000	5.00	12,270,000
202	5.500	WO4	11.0	60,500	20.00	1,210,000
	13.800	WO2	6.0	82,800	10.00	828,000
203	44.700	NO2	30.0	1,341,000	5.00	6,705,000
204	37.200	NO4	60.0	2,232,000	10.00	22,320,000
205	0.695	NO2	30.0	20,850	20.00	417,000
206	18.930	WO4	11.0	208,230	1,500.00	312,345,000
	42.100	WO2	6.0	252,600	10.00	2,526,000
211	16.600	NO2	30.0	498,000	5.00	2,490,000
212	6.900	WO2	6.0	41,400	20.00	828,000
214	22.840	WO2	6.0	137,040	5.00	685,200
	29.700	WO2	6.0	178,200	5.00	891,000
215	20.000	NO2	30.0	600,000	5.00	3,000,000
					Sub-Total:	403,708,180

APPENDIX 12.2 LAND ACQUISITION COSTS (7)

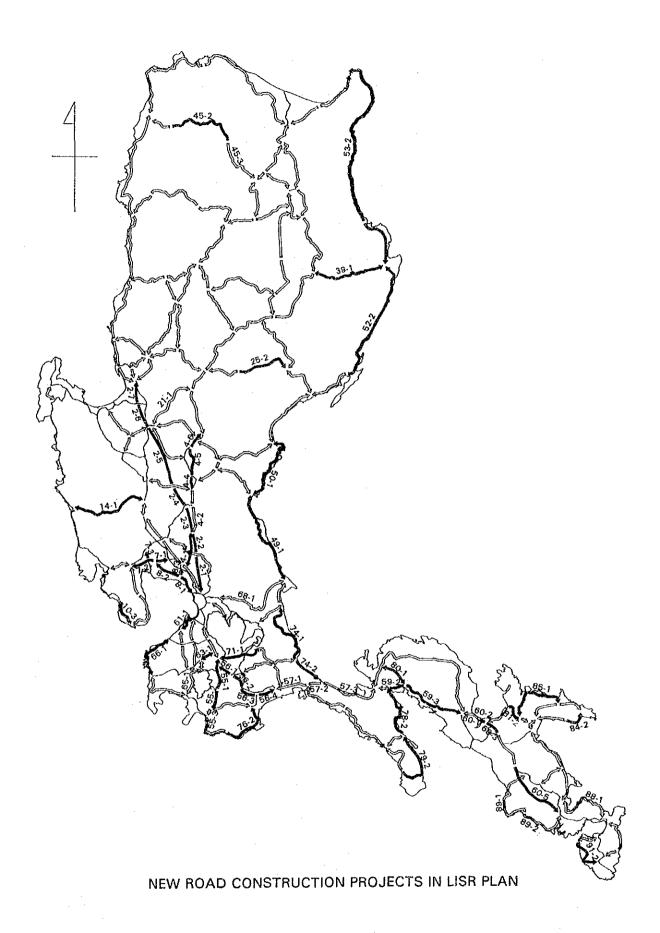
Group No.	Link Length (km)	Type of Project	R.O.W.	Areas (m <sup>2</sup> )	Unit Cost (P/m <sup>2</sup> )	R.O.W. Cost (F)
216	21.983	WO2	6.0	131,898	5.00	659,490
217	57.534	NO4	60.0	3,452,040	20.00	69,040,800
219	31.851	WO4	11.0	350,361	20.00	7,007,220
220	12.935	WO4	11.0	142,285	20.00	2,845,700
222	6.113	NO4	60.0	366,780	20.00	7,335,600
223	19.821	WO2	6.0	118,926	20.00	2,378,520
224	2.400	WO2	6.0	14,400	20.00	288,000
228	48.000	WO2	6.0	288,000	5.00	1,440,000
229	8,600	WO2	6.0	51,600	5.00	258,000
230	63.000	NO2	30.0	1,890,000	5.00	9,450,000
231	36.725	WO2	6.0	220,350	5.00	1,101,750
232	32.730	WO2	6.0	196,380	5.00	981,900
233	15.000	NO2	30.0	450,000	5.00	2,250,000
234	20.000	NO2	30.0	600,000	5.00	3,000,000
241	20.032	WO2	6.0	120,192	20.00	2,403,840
242	19.100	WO2	6.0	114,600	10.00	1,146,000
243	15.808	WO2	6.0	94,848	5.00	474,240
245	22.726	NO2	30.0	681,780	5.00	3,408,900
					Sub-Total:	133,102,760
				G	rand Total:	1,652,088,090

**APPENDIX FOR CHAPTER 15** 

## **APPENDIX 15.1**

INITIAL ENVIRONMENTAL ASSESSMENT

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어느 사람이 하는 사람들은 사람들이 아닌지만 하루 살아 하는 생생님을 생각하는 생각을 하는 것이다.	: -
	1.
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그는 것이 그 그는 사람이 가는 바다 가장 되어 있었다. 전환 등 인터넷 모든 살다면 다	
그리는 물건들이 가는 이 등을 하는데 하는데 하는데 하는데 물건들이 말했다. 그런 모양이 나를 보냈다.	
	1
그는 그 그는 그 이 그는 그는 그는 이 이 이 이 아이들이 얼마나는 그는 것이 아니다. 그는 것은 사람들이 얼마나 없다는 것이 없다면 하는데 얼마나 없다면 살아 없다면 살아요요. 얼마나 살아 살아요. 얼마나 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아요. 얼마나 살아 살아 살아 살아 살아요. 얼마나 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아 살아요. 얼마나 살아 살아 살아요. 얼마나 살아요	
	1.
	-:::
는 사람들이 있는 것이 되었다. 그런 사람들이 되는 것이 되었다. 그런 그런 보고 있는 것이 되었다. 이 사람들이 모든 것이 되었다. 	. "
그는 그는 그는 그 아이들이 얼마는 그들은 사람들이 되었다. 그는 사람들이 그를 하는 것이 살아 없는 것이 없는데 얼마를 다 되었다.	
는 마음 보는 사람들이 되었다. 그는 사람들은 마음을 하는 것이 되었다. 그는 사람들은 사람들은 사람들이 되었다. 그렇게 하는 분석하는 사람들은 다음을 하는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	ist Julius
그는 사람들은 사람들이 가는 사람들이 되었다. 그는 사람들은 사람들이 되었다는 것이 되었다. 사람들이 바로를 하는 것이 되었다는 것이 모르게 되었다. 	3
으로 보고 있는 것이 되었다. 그런 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그런 사람들이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
그는 그는 사람들은 사람들이 가는 사람들이 되었다. 그는 사람들은 바라를 가득하는 것은	٠.
그는 그는 그는 그는 그는 그는 그는 그는 그들은 그들은 그는 그를 가는 그를 가는 것이 하는 것이다.	



Project	- 2 : New North Luzon	Expressway		
Segment	Province	Length (km)	Terrain	Project Type
2-1 2-3 2-4 2-5 2-6 2-7	Metro Manila/Bulacan Bulacan Nueva Ecija Nueva Ecija Nueva Ecija/Pangasinan Pangasinan Pangasinan	33.7 16.4 23.9 19.8 53.1 20.9 18.8	Flat Flat Flat Flat Flat Rollin	New Construction of 186.6 km 4-lane Expressway

01	t. Then	Durin	g Construction	Aft	er Completion	Remarks
Chec	k Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kollot Ko
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	С		D	Management system Urban planning	
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation Noise barriers	
Physical	Vibration	D	Regulations Low-vibration machinery	Đ	Regulations	
Environment	Soil Contamination	D	Waste disposal plan	С	,	
	Land Subsidence	D	Soft ground treatment and soil stabilization	С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	D	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
	Community Cohesion	С		D	Crossing facilities	
Socio-	Land-use Pattern	c		В		
economical	Industrial Activity	С		A		
Environment	Employment & Income	В		A		
	Traffic Build-up	D	Management plan Detouring	А		, -
	Traffic Safety	Ď	Management plan Safety measures	A		
	Archaeology	С		. А		
Assessment:	A : High Posi B : Low Posi	tive Impact	C: No Imp	pact	D : Low Negative E : High Negative	Impact Impact

Segment	Province	Length (km)	Terrair	١	Project Type
* 4-1 * 4-2 4-3 * 4-4 * 4-5 * 4-6 * Subject	Bulacan Bulacan Nueva Ecija Nueva Ecija Nueva Ecija Nueva Ecija to Assessment	31.7 25.8 13.0 11.1 24.9 15.8	Flat Flat Flat Flat Flat	New Co	onstruction of 78.6 km 4-Lane Ordinary Ro

Chasl	< Item		g Construction		er Completion	Remarks
Check	( I tell	Assessment	Mitigating Measures	Assessment	Mitigating Measures	i i i i i i i i i i i i i i i i i i i
	Air Pollution	Đ	Material covering Water spraying Minimizing Traffic	Ď	Plantation Buffer zones	
•	Water Pollution	С		c		
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
Envi ronment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	D	Soft ground treatment and soil stabilization	С		
	Soil Erosion D		Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	Đ	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
	Community Cohesion	С		Ð	Crossing facilities	
Socio-	Land-use Pattern	С		В		
economical	Industrial Activity	C		В		
Environment	Employment & Income	В		А		
	Traffic Build-up	С		В		
	Traffic Safety	D	Management plan Safety measures	В		
	Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project -	7 : Manila-Bata	an Coastal Road,	North	
Segment	Province	Length (km)		
7-1 7-2 7-3	Bulacan Pampanga Pampanga	12.3 21.5 9.0	Flat Flat Flat	New Construction of 33.7 km 4-Lane Ordinary Road New Construction of 9.0 km 2-Lane Ordinary Road

-1		During	g Construction	Aft	er Completion	Remarks
Checi	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kellar Ko
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	С		D	Management system Urban planning	
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical Environment	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
	Soil Contamination	Đ	Waste disposal plan	С		
	Land Subsidence	c .		c		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	D	Compensation Relocation scheme	С		
·	Ethnic Groups	С		С		
Socio-	Community Cohesian	С		D	Crossing facilities	
economical	Land-use Pattern	С		A		
Environment	Industrial Activity	С	·	В		
EUALLOWNGUL	Employment & Income	В		А		
	Traffic Build-up	С		В		
	Traffic Safety	D	Management plan Safety measures	В		
	Archaeology	С		С		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	t - 8	: Manila-Bataan	Coastal Road	, South	
Segment	1043-ERGHUNDEN	Province	Length (km)	Terrain	Project Type
8-1 8-2 8-3	Metro	Manila/Bulacan Bulacan Bulacan	19.0 25.7 7.0	Flat Flat Flat	New Construction of 44.7 km 4-Lane Ordinary Road New Construction of 7.0 km 2-Lane Ordinary Road

Chaal	k Item	Durin	g Construction	Afte	er Completion	Remarks
Uneci	K Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Keinei Ka
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	c		D	Management system Urban planning	
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
Environment	Soil Contamination	D	Waste disposal plan	C		
	Land Subsidence	D	Soft ground treatment and soil stabilization	С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		A		:
	Resettlement	D	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
Socio-	Community Cohesion	С		D	Crossing facilities	
	Land-use Pattern	С		А		
economical	Industrial Activity	С		A		
Environment	Employment & Income	В		А		
	Traffic Build-up	С		8		
	Traffic Safety	В	Management plan Safety measures	В		
	Archaeology	,c		С		

Assessment:

A : High Positive Impact
B : Low Positive Impact
C : No Impact

Segment	Province	Length (km)	Terrain	Project Type
10-2	Bataan Bataan Bataan Assessment	24.3 39.7 38.9	Rolling	New Construction of 34.9 km 2-Lane Ordinary Road

Char	k Item	Durin	Construction After Completion		Remarks	
Chec	K I Lea	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kellal K
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	· c		С		
	Noise Pollution	Đ	Regulations Low-noise machinery	С		
Physical	Vibration	С		С		
Environment	Soil Contamination	Đ	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С	·	
	Ecosystems	С		c ·		
	Population Change	C		A		
	Resettlement	С		С		
	Ethnic Groups	С		С		
0	Community Cohesion	С		С		
Socio-	Land-use Pattern	c		В		
economical Environment	Industrial Activity	С		A		
erit orazent	Employment & Income	В		A	:	
	Traffic Build-up	D	Management plan Detouring	С		
	Traffic Safety	Đ	Management plan Safety measures	В		
	Archaeology	С		С		

Projec	t - 14 : Capas-	Botolan	Road					THOUSE OF	-00-0-0			
Segment	Province	Length	(km)	Terrain		Pro	ject	t Ty	pe		_	
14-1.	Tarlac/Zambates	81.8	Mour	ntainous/Rolling	Нен	Construction	f 49	9.0	km	2-Lane	Ordinary	/ Road

Check Item		During	g Construction	Afte	Remarks	
Check	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kemarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С	:	С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		c		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С	·	
	Ecosystems	D	Protection plan	С		
	Population Change	С		С		<u></u>
	Resettlement	С		С		
	Ethnic Groups	D	Educational program Relocation scheme	D	Educational program Relocation scheme	
	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		С		
economical	Industrial Activity	С		С		
Environment	Employment & Income	В	·	В		
	Traffic Build-up	С		В		
	Traffic Safety	С		. В		
· .	Archaeology	С	·	С		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Projec	ct - 21 : Rosales-Sta.	Fe Road			
Segment	Province	Length	(km)	Terrain	Project Type
21-1	Pangasinan/Nueva Vizca	ya 76.0	Mou	intainous	New Construction of 29.9 km 2-Lane Ordinary Road

Char	k Item	Durin	g Construction	Aft	er Completion	Remarks
Circo	· ·	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	С	·	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		-
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		C		
	Population Change	С		В		
	Resettlement	С		С		
	Ethnic Groups	E	Educational program Relocation scheme	E	Educational program Relocation scheme	· · · · · · · · · · · · · · · · · · ·
Socio-	Community Cohesion	c ·		Đ	Crossing facilities	
economical	Land-use Pattern	С		В		
Environment	Industrial Activity	С		С		
zav i ronment	Employment & Income	В		В		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	- 25 : Aritao-Ma	ddela Road		
Segment	Province	Length (km)	Terrain	Project Type
* 25-2	Nueva Vizcaya Quirino to Assessment	43.6 56.7	Mountainous	New Construction of 23.5 km 2-Lane Ordinary Road

011	7.4	Durin	g Construction	Afte	er Completion	Damaska
Check	Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	C .		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	D	Protection plan	D	Protection plan	
	Population Change	C		С		
	Resettlement	С		С		
·	Ethnic Groups	С		С		
Sacio-	Community Cohesion	c		С		
economical	Lønd-use Pattern	С		В		
	Industrial Activity	С		С		
	Employment & Income	В		8		
	Traffic Build-up	c.		С		
	Traffic Safety	c		8		
	Archaeology	c		В		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	: - 39 : Na	guilian-Pa	alanan Road	
Segment	Province	Length (k	m) Terrain	Project Type
39-1	Isabela	79.0	Mountainous/Rolling	New Construction of 47.5 km 2-Lane Ordinary Road

0h1	Check Item		g Construction	Aft	er Completion	Remarks
cneci	C I COM	Assessment	Mitigating Measures	Assessment	Mitigating Measures	
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	: <b>C</b>		
-	Water Pollution	С		С		   
	Noise Pollution	С		С	·	
Physical	Vibration	С		C		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
İ	Sail Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	D	Protection plan	D	Protection plan	
	Population Change	С		C		
	Resettlement	С		С		
	Ethnic Groups	С		С		
į	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		В		
economical	Industrial Activity	С		С		
Environment	Employment & Income	β	·	В		
	Traffic Build-up	С		В		
į	Traffic Safety	C		8		
į	Archaeology	С		¢		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Segment	Province	Length (km)	Terrain	Project Type
45-1 * 45-2 * 45-3 * Subject	ilocos Norte Kalinga-Apayad Kalinga-Apayad to Assessment		Mountainous	New Construction of 70.0 km 2-Lane Ordinary Road

	**	During	Construction	Afte	er Completion	Remarks	
uneci	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kemarks	
	Air Pollution	C		С			
	Water Pollution	С		С			
	Noise Pollution	С		С			
Physical	Vibration	С		С			
Environment	Soil Contamination	D	Waste disposal plan	С			
	Land Subsidence	С		С			
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С			
1	Ecosystems	D	Protection plan	Đ	Protection plan		
	Population Change	С		С			
	Resettlement	С		С			
	Ethnic Groups	С		С			
Socio-	Community Cohesion	С		С			
	Land-use Pattern	С		С			
economical	Industrial Activity	С		c ·			
Environment	Employment & Income	В		В			
	Traffic Build-up	С		В			
	Traffic Safety	С		В			
	Archaeology	С		В			

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Projec	t - 49 : Infan	ta-Ding	atan Road		
Segment	Province	Length (	(km) Terrain	Project	Туре
49-1	Aurora/Quezon	101.5	i Mountainous/Rolling	New Construction of	89.9 km 2-Lane Ordinary Road

Chaal	k Itam	Durin	g Construction	Aft	er Completion	Remarks
cnec			Mitigating Measures	Assessment	Mitigating Measures	KCIIIGI KS
	Air Pollution	С		С		
	Water Pollution	С		. С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	C		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	. С		
	Ecosystems	С		С		
	Population Change	С		8		
	Resettlement	С		С		
	Ethnic Groups	С		С	·	
Socio-	Community Cohesion	С		E		
economical	Land-use Pattern	С		В		
	Industrial Activity	С		С		·
Environment	Employment & Income	В		В		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	- 50 : Dingal	an-Bater Road		
Segment	Province	Length (km)	Terrain	Project Type
50-1	Aurora	118.7	Mountainous	New Construction of 2-Lane Ordinary Road

Check Item		During	g Construction	Afte	Remarks	
Check	i ten	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kellibi Ko
	Air Pollution	С		С		
	Water Poliution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		С		
	Resettlement	С		С		
	Ethnic Groups	C		С		
Socio-	Community Cohesion	С		С		
economical	Land-use Pattern	С		В		
Environment	Industrial Activity	С		С		
	Employment & Income	В		В		
	Traffic Build-up	С		8		
	Traffic Safety	С		В		
	Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project -	52 : Dinalon	ngan-Pal	anan Road	:
Segment	Province L	ength (	km) Terrain	Project Type
52-1 * 52-2 Isal * Subject to	Aurora Dela/Aurora Di Assessment	56.3 115.5	Mountainous/Rolling	New Construction of 108.0 km 2-Lane Ordinary Roa

Chan	k Item	Durin	g Construction		Aft	er Completion	Domanko	
Cirec	K Item	Assessment	Mitigating Mea	sures	Assessment	Mitigating Measures	Remarks	
	Air Pollution	С			С			
	Water Pollution	С			С			
	Noise Pollution	С			С			
Physical	Vibration	С			С			
Environment	Soil Contamination	D	Waste disposal	plan	С			
	Land Subsidence	С			С			
	Soil Erosion	D	Slope protectic Stream protecti Drainage/Vegeta	on on otion	С			
	Ecosystems	D	Protection plan	,	D	Protection plan		
	Population Change	С			С			
	Resettlement	С			С			
	Ethnic Groups	С			С			
Socio-	Community Cohesion	С			С			
	Land-use Pattern	С			В			
	Industrial Activity	С			С			
ł	Employment & Income	В			В			
	Traffic Build-up	С			В			
	Traffic Safety	C			В			
	Archaeology	С			В			

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 53 : Pa	lanan-Sta.	Ana Road	
Segment	Province	Length (k	m) Terrain	Project Type
	Isabela Cagayan t to Assess	50.0 156.5 sment	Mountainous/Rolling	New Construction of 196.5 km 2-Lane Ordinary Road

gh		Durin	g Construction	Aft	er Completion	Remarks
Uneci	k Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kellarks
	Air Pollution	С		С		
	Water Pollution	С		¢		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
·	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	D	Protection plan	D	Protection plan	
	Population Change	С		С		
	Resettlement	С		С		
	Ethnic Groups	С		С		
	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		8		
economical	Industrial Activity	С	·	С		
Environment	Employment & Income	В	·	В		
	Traffic Build-up	С		С		
	Traffic Safety	С		В		
	Archaeology	С		В.		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

, -	- 55 : South Luz	•	-	atangas Line
Segment	Province	Length (km)	Terrain	Project Type
55-1 55-2 55-3	Batangas/Laguna Batangas Batangas	27.9 19.8 3.3	Rolling/Flat	New Construction of 47.7 km 4-Lane Expressway

Ol		Durin	g Construction	Aft	er Completion	Damanka
Chec	k Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D		
	Water Pollution	С		С		
	Noise Pollution	D		D		
Physical	Vibration	D		D		
Environment	Soil Contamination	Đ	Waste disposal plan	С		
·	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	C		В		
	Resettlement	D		С		
	Ethnic Groups	С		С		· .
Socio-	Community Cohesion	· c		D		
economical	Land-use Pattern	С		В		
Environment	Industrial Activity	С		А	·	
	Employment & Income	В		A		:
	Traffic Build-up	Đ		Α .		
	Traffic Safety	D	Management plan Safety measures	. A	·	
	Archaeology	c		. А		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

-		uzon Expressway		, Lucena Line	
Segment	Province	Length (km)		Project	
56-1 56-2 56-3 56-4	Laguna Laguna Quezon Quezon	14.7 15.6 15.5 16.2	Rolling Rolling Flat Rolling	New Construction of	4-Lane Expressway

Check Item		ļ	g Construction	<b></b>	er Completion
		Assessment	Mitigating Measures	assessment	
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones
	Water Pollution	c ·		С	
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation Noise barriers
Physical	Vibration	D	Regulations Low-vibration machinery	D	Regulations
Environment	Soil Contemination	D	Waste disposal plan	С	
	Land Subsidence	С		С	
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С	
	Ecosystems	С		С	
	Population Change	С		в	
	Resettlement	D	Compensation Relocation scheme	С	
	Ethnic Groups	С		С	
Socio-	Community Cohesion	С		D	Crossing facilities
economical	Land-use Pattern	С		В	
economicat Environment	Industrial Activity	С		A	
PHALL OLDISCUE	Employment & Income	В		А	
	Traffic Build-up	· D	Management Plan Detouring	А	
	Traffic Safety	D .	Management plan Safety measures	Α.	
	Archaeology	C		A	

Project - 57 : Pan-Philippine Highway, Lucena-Calauag								
Segment	Province	Length (km)	Terrain	Project Type				
57-1 57-2 57-3	Quezon Quezon Quezon	27.9 13.9 52.7	Flat	New Construction of 25.4 km 4-Lane Ordinary Road				

Check Item		Durin	g Construction	Aft	Remarks	
cnec			Mitigating Measures	Assessment	Mitigating Measures	Keniai K
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	D	Management system	D	Management system Urban planning	
,	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation Noise Barriers	
Physical Environment	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soit Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		. <b>C</b>	·	•
	Population Change	С		В .		
į	Resettlement	Đ	Compensation Relocation plan	С		
	Ethnic Groups	С		С		:
Socio-	Community Cohesion	С	·	С		
economical	Land-use Pattern	С		В		
Environment	Industrial Activity	С		8	:	
ļ	Employment & Income	В		A		
	Traffic Build-up		Management plan Detouring	8		
	Traffic Safety	D	Management plan Safety measures	Α		
	Archaeology	С		A:		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Segment	Province	Length (km)	Terrain	Project Type
59-4	Quezon Quezon Camarines Sur Camarines Sur ct to Assessment	5.5 37.2 67.2 67.2	Mountainous Mountainous	New Construction of 37.2 km 4-Lane Ordinary Road New Construction of 42.0 km 2-Lane Ordinary Road

		During	g Construction	Afte	er Completion	Remarks
Check	Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remai Ka
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	С		С		
	Noise Pollution	D ·	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical Environment	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С	·	
	Population Change	С		В		
:	Resettlement	D	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
Socio-	Community Cohesion	С		D	Crossing facilities	
	Land-use Pattern	c		В		
economical	Industrial Activity	С		В		
Environment	Employment & Income	В		A		
	Traffic Build-up	С	·	В		
	Traffic Safety	С		A		
	Archaeology	С		A		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Segment	Province	Length (km)	Terrain	Project Type
60-1 60-2	Camarines Sur	16.9 6.1	Flat	New Construction of 82.3 km 4-Lane Ordinary Roa
60-2	Camarines Sur		Flat	
* 60-3	Camarines Sur	14.7	Flat	
60-4	Camarines Sur	31.9		
<sup>ላ</sup> 60-5	Albav	57.5	Rolling	

Choo	Check Item		g Construction	Aft	er Completion	Remarks
Citeci	K I Ceni	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Weller Ko
	Air Pollution	Đ	Material covering Water spraying Minimizing Traffic	0	Plantation Buffer zones	
•	Water Pollution	С		С		
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
Environment	Soil Contamination	D	Waste disposal plan	C		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	C		
	Ecosystems	С		C		
	Population Change	C		В	·	
	Resettlement	D	Compensation Relocation scheme	C		
	Ethnic Groups	C		С		
Socio-	Community Cohesion	С		Đ	Crossing facilities	
economical	Land-use Pattern	С		A		
	Industrial Activity	С		В		
Environment	Employment & Income	В	·	Α .	:	
	Traffic Build-up	D	Management plan Detouring	В		
	Traffic Safety	D	Management plan Safety measures	· <b>A</b>		
	Archaeology	С		A	:	

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project ·	· 61 : Manila	Cavite Express		
Segment	Province	Length (km)	Terrain	Project Type
61-1	Cavite	15.7	Flat	New Construction of 4-Lane Expressway

Check	Charle Itana		During Construction		After Completion	
Check Item		Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
,	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	С		С		
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation Noise barriers	
Physical '	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	D	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
Socio-	Community Cohesion	С		D	Crossing facilities	
	Land-use Pattern	С		В		
	Industrial Activity	С		А		
Environment -	Employment & Income	В		A		
	Traffic Build-up	Ď	Management plan Detouring	A		
	Traffic Safety	D	Management plan Safety measures	А		
	Archaeology	С		А		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project - 63 : Calamba-Tagaytay Road								
Segment	Province	Length (km	) Terrain	Project Type				
63-1	Laguna	24.7	Rolling/Mountainous	New Construction of 16.2 km 2-Lane Ordinary Road				

Check Item		Durin	g Construction	After Completion		Remarks
Lnec	OHOUR I COM		Mitigating Measures	Assessment	Mitigating Measures	ACHIGI KS
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	С	·	С		
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical	Vibration	D	Regulations Loพ-vibration machinery	D	Regulations	
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	C		С		
·	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	С	: .	С		
	Ethnic Groups	С		С		
n	Community Cohesion	С		С		
Socio-	Land-use Pattern	C	47	В		
economical	Industrial Activity	С		В		
Environment	Employment & Income	В		Α		
	Traffic Build-up	С	: :	В		
:	Traffic Safety	С		В		
	Archaeology	C		В		**********

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 65 : Talis	ay-Lemery Road		Attribution College Association (AUCOCCA) - (EMPLOYOUS AUCOCCA) (AUCOCCA) (A
Segment	Province	Length (km)	Terrain	Project Type
65-1	Batangas	42.2	Rolling	New Construction of 13.5 km 2-Lane Ordinary Road

Check Item		During	Construction	Afte	Remarks	
Checi	( Item	Assessment	Mitigating Measures	Assessment	Assessment Mitigating Measures	
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	D	Regulations Low-noise machinery	С		
Physical	Vibration	D	Regulations Low-vibration machinery	С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	C		В		
'	Resettlement	С		С		
	Ethnic Groups	С		С		
	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		A		
economical	Industrial Activity	С		A		
Environment	Employment & Income	8		A		
	Traffic Build-up	C		В		
	Traffic Safety	С		А		
	Archaeology	С		A		
Acqueemont:	A t Nigh Pos	<u> </u>	t C · No Im	L	D · Low Negativ	<u> </u>

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 66 : Naic-	Nasugbu Road		
Segment	Province	Length (km)	Terrain	Project Type
66-1	Batangas	71.4	Mountainous	New Construction of 40.3 km 2-Lane Ordinary Road

Check Item		During	g Construction	Aft	er Completion	Remarks
Unec	K Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	c		
	Water Pollution	С		С		
	Noise Pollution	D		С		
Physical	Vibration	D	Regulations Low-vibration machinery	С		
Environment	Soil Contamination	D	Waste disposal plan	c L		
	Land Subsidence	С		С	·	
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С	·	С		
	Population Change	С		С		
	Resettlement	С		С		
	Ethnic Groups	С		С		
	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		В		
economical	Industrial Activity	·C		В		
Environment	Employment & Income	В		А		
	Traffic Build-up	C.		В		
	Traffic Safety	С		А		
	Archaeology	С	: .	A		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	- 68 : Marîkîı	na-Infanta Rea	1	
Segment	Province	Length (km)	Terrain	Project Type
68-1	Quezon	103.7	Mountainous	New Construction of 36.0 km 2-Lane Ordinary Road

a)		Durin	g Construction	Afte	er Completion	Remarks
unec	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kelliai KS
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	С		С	·	
Physical	Vibration	c		С		
Environment	Soil Contamination	D		С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	D	Protection plan	D	Protection plan	
	Population Change	С		В	÷	
	Resettlement	С		С		
	Ethnic Groups	С		С		
Saais	Community Cohesion	С		С		
Socio- economical	Land-use Pattern	С		В		
	Industrial Activity	С		В		
Environment	Employment & Income	В		A		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	c .	·.	В		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 71 : Calamba-I	Pagsanjan Divers	ion Road	
Segment	Province	Length (km)	Terrain	Project Type
71-1	Laguna	38.9	Flat	New Construction of 37.1 km 4-Lane Ordinary Road

Check Item		Durin	g Construction	Aft	er Completion	Remarks
Unlea			Mitigating Measures	Assessment	Mitigating Measures	Kemai Ka
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	D	Plantation Buffer zones	
	Water Pollution	D	Management system	С		
	Noise Pollution	D	Regulations Low-noise machinery	D	Low-noise surface Plantation	
Physical	Vibration	D	Regulations Low-vibration machinery	D	Regulations	:
Environment	Soil Contamination	D	Waste disposal plan	· c		
	Land Subsidence	С		С		
] :	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С	·	
	Ecosystems	С		C ,		
	Population Change	С		В		
	Resettlement	D	Compensation Relocation scheme	С		
į	Ethnic Groups	c	·	С		
Socio-	Community Cohesion	С		С		
economical	Land-use Pattern	С		В		
	Industrial Activity	C		В		
	Employment & Income	В		А		
	Traffic Build-up	D	Management plan Detouring	В		
	Traffic Safety	С		В		
	Archaeology	С		А		

Assessment:

A : High Positive Impact
B : Low Positive Impact

C : No Impact

Project - 74 : Tigmuan-Atimonan Road										
Segment	Province	Length (km)	Terrain	Project Type						
74-1 74-2	Quezon Quezon	82.3 32.7	Mountainous Mountainous/Rolli	New Construction of 113.0 km 2-Lane Ordinary Roading						

		During	Construction	Aft	Remarks	
Check	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	кешагкѕ
	Air Pollution	С		c		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	Đ	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	D	Compensation Relocation scheme	С		
	Ethnic Groups	С		С		
	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		В		
	Industrial Activity	. с		В		
Environment	Employment & Income	В		В		
	Traffic Build-up	С		В		
	Traffic Safety	<b>C</b> :	·	В		
	Archaeology	С		В		
Accocement	A · High Dos		t C · No Im		D : Low Negativ	a Impant

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	- 76 : Batan	gas-San Juan (	Coastal Road	
Segment	Province	Length (km)	Terrain	Project Type
	Batangas Batangas to Assessmen	40.2 47.0 nt	Flat	New Construction of 29.3 km 2-Lane Ordinary Road

	Check Item		g Construction	Aft	er Completion	Remarks
Check	( ) tem	Assessment	Mitigating Measures	Assessment	Mitigating Measures	remot ke
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	C		С		
	Noise Pollution	С		c		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		8		
	Resettlement	С		С		
	Ethnic Groups	С		С	.	
Socio-	Community Cohesion	С		С		
economical	Land-use Pattern	С		В	::	
Environment	Industrial Activity	С		В		
EHVIIORREAL	Employment & Income	В		A		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	С		A		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project -	78 : Mulanay	-Panago	n-Jinabaan Road	
Segment	Province	Length	(km) Terrain	Project Type
78-1 * 78-2 * Subject	Quezon Quezon to Assessment	29.8 58.5	Mountainous	New Construction of 44.7 km 2-Lane Ordinary Road

		Durin	Construction	Afte	er Completion	Remarks
Check	Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Kemarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical	Vibration	С		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
į	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	С		В		
	Ethnic Groups	С		С		
Danie.	Community Cohesion	С		С		
Socio-	Land-use Pattern	С		В		
economical	Industrial Activity	С		С		
Environment	Employment & Income	8		В		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project - 79 : Malanay-San Francisco-Panagon Road									
Segment	Province	Length (km)	Terrain	Project Type					
79-1 * 79-2 * Subjec	Quezon Quezon t to Assess	35.6 61.0 sment	Mountainous	New Construction of 54.1 km 2-Lane Ordinary Road					

Chas	Check Item		g Construction	Aft	er Completion	Remarks
Gnec			Mitigating Measures	Assessment	Mitigating Measures	Kemarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	c		С		
Physical	Vibration	C		С		
Environment	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Orainage/Vegetation	С		
	Ecosystems	c .	·	С		
	Population Change	С		В		
	Resettlement	c		с		
	Ethnic Groups	С		С		
Socio-	Community Cohesion	С		С	·.	
}	Land-use Pattern	С		B :		
	Industrial Activity	С		С		
1	Employment & Income	В		В		
	Traffic Build-up	С		В		
	Traffic Safety	С		В		
	Archaeology	C .		В		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project	- 80 : San	Miguel-Tagka	wayan Road			
Segment	Province	Length (km)	Terrain	:	Project	Туре
80-1	Quezon	27.6	Mountainous	New Construction of	21.1 km	2-Lane Ordinary Road

Assessment Hitigating Measures Assessment Hitigating Measures  Air Pollution C C C  Water Pollution C C C  Noise Pollution C C C  Physical Vibration C C C  Environment Soil Contamination D Waste disposal plan C C  Land Subsidence C C C  Soil Erosion D Stope protection Stream protection Drainage/Vegetation C C  Ecosystems C C C  Population Change C B C  Resettlement C C C  Community Cohesion C C  Socio-  Land-use Pattern C B B  Industrial Activity C C C	Remarks	n (	er Completion	Afte	g Construction	During	•	<b>~</b> 11
Mater Pollution C C  Noise Pollution C C  Physical Vibration C C  Environment Soil Contamination D Waste disposal plan C  Land Subsidence C C  Soil Erosion D Stream protection Stream protection Drainage/Vegetation C  Ecosystems C C  Population Change C B  Resettlement C C  Ethnic Groups C C  Community Cohesion C C  Socio-  Land-use Pattern C B  economical  Industrial Activity C C	Cinal Ro	Measures	Mitigating M	Assessment	Mitigating Measures	Assessment	i i tem	Cneck
Water Pollution C C C  Noise Pollution C C C  Physical Vibration C C C  Environment Soil Contamination D Waste disposal plan C  Land Subsidence C C C  Soil Erosion D Stream protection Drainage/Vegetation C  Ecosystems C C C  Population Change C B  Resettlement C C C  Ethnic Groups C C  Community Cohesion C C  Socio-  Land-use Pattern C B  Industrial Activity C C C	_		_	С		С	Air Pollution	
Physical Vibration C C C  Environment Soil Contamination D Waste disposal plan C C C C C C C C C C C C C C C C C C C				С		С	Water Pollution	
Environment Soil Contamination D Waste disposal plan C  Land Subsidence C C C  Soil Erosion D Slope protection Stream protection Drainage/Vegetation C  Ecosystems C C C  Population Change C B  Resettlement C C C  Ethnic Groups C C  Community Cohesion C C  Socio- Land-use Pattern C B  Industrial Activity C C				С		С	Noise Pollution	
Land Subsidence C C C  Soil Erosion D Slope protection C C  Ecosystems C C C  Population Change C B  Resettlement C C C  Ethnic Groups C C  Community Cohesion C C  Land-use Pattern C B  Industrial Activity C C C				С		С	Vibration	
Soil Erosion D Slope protection Stream protection Drainage/Vegetation C  Ecosystems C C C  Population Change C B  Resettlement C C C  Ethnic Groups C C  Community Cohesion C C  Land-use Pattern C B  Industrial Activity C C C				С	Waste disposal plan	D	Soil Contamination	
Ecosystems   C				С		С	Land Subsidence	
Population Change C B  Resettlement C C  Ethnic Groups C C  Community Cohesion C C  Land-use Pattern C B  economical  Industrial Activity C C				С	Slope protection Stream protection Drainage/Vegetation	D	Soil Erosion	
Resettlement   C				С		С	Ecosystems	
Ethnic Groups C C  Community Cohesion C C  Socio- Land-use Pattern C 8  economical Industrial Activity C C				В		С	Population Change	
Community Cohesion C C  Socio- Land-use Pattern C 8 economical Industrial Activity C C				С		С	Resettlement	
Socio- Land-use Pattern C B economical Industrial Activity C C				С		С	Ethnic Groups	
economical Industrial Activity C C				С		С	Community Cohesion	
Industrial Activity C C				8		С	Land-use Pattern	
I ETY LE OUR BEET L				С		С	Industrial Activity	
Employment & Income B B				В		В	Employment & Income	
Traffic Build-up C B				8		С	Traffic Build-up	
Traffic Safety C B				В		С	Traffic Safety	
Archaeology C C				С		С	Archaeology	

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 81 : Parigsa-	Goa Road		
Segment	Province	Length (km)	Terrain	Project Type
81-3	Camarines Sur Camarines Sur Camarines Sur to Assessment	22.4 15.0 10.1	Mountainous	New Construction of 15.0 km 2-Lane Ordinary Road

		During	g Construction	Aft	er Completion	
Check	k Item			<u> </u>	Mitigating Measures	Remarks
	Air Pollution	С	-	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical Environment  Socio- economical Environment	Vibration	C		С		
	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	c ·		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	с		
	Ecosystems	D	Protection plan	D	Protection plan	
	Population Change	С		С		
	Resettlement	С		С		
	Ethnic Groups	D	Educational program Relocation scheme	D	Educational program Relocation scheme	
	Community Cohesion	С		С		-
	Land-use Pattern	С		В		
	Industrial Activity	С		С		
	Employment & Income	В		В		
	Traffic Build-up	С		В		
	Traffic Safety	C		8		
	Archaeology	C .		С		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

, -	- 84 : Lagonoy		n-Caramoan Roa	d
Segment	Province		Terrain	Project Type
* 84-2	Camarines Sur Camarines Sur t to Assessment	32.7 20.0	Mountainous	New Construction of 20.0 km 2-Lane Ordinary Road

Chec	k Item		g Construction		er Completion	Remark
Cilec	K I CCIII	Assessment	Mitigating Measures	Assessment	Mitigating Measures	
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С	i	
	Noise Pollution	D	Regulations Low-noise machinery	С		
Physical Environment Socio- economical Environment	Vibration	D	Regulations Low-vibration machinery	С		
	Soil Contamination	Đ	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		8		
	Resettlement	С		C		
	Ethnic Groups	С		С		
	Community Cohesion	С		С		
	Land-use Pattern	С		В		
	Industrial Activity	С		С		
	Employment & Income	В		В		
	Traffic Build-up	С		· B		
	Traffic Safety	С		В		
	Archaeology	С		В		

Project	- 85 : Lalud-Gard	chitorena i	Road		
Segment	Province	Length (	km) Terrain	Project Type	
85-1	Camarines Sur	68.9	Mountainous	New Construction of 63.0 km 2-Lane Ordinary Road	ď

Choo	k Item	Durin	g Construction	Aft	er Completion	Remarks
Griec	K I Cell	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		C		
	Noise Pollution	D	Regulations Low-noise machinery	С		
	Vibration	D	Regulations Low-vibration machinery	С		
	Soil Contamination	D	Waste disposal plan	c ·		
	Land Subsidence	С		С		·
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		В		
	Resettlement	С		С		
	Ethnic Groups	D ·	Educational program Relocation scheme	D	Educational program Relocation scheme	
	Community Cohesion	С		С		
	Land-use Pattern	С		8		
ênvironment	Industrial Activity	С		С		
	Employment & Income	8		А		
	Traffic Build-up	· c		В		
ļ	Traffic Safety	С		В		
	Archaeology	С		8	4	

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

Project	- 88 : Lega	ıspi-Manito-S	orsogon Road	
Segment	Province	Length (km)	Terrain	Project Type
88-1	Sorsogon	82.1	Mountainous	New Construction of 20.0 km 2-Lane Ordinary Road

		During	g Construction	Afte	er Completion	
Chec	k Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	b	Regulations Low-noise machinery	0	Low-noise surface Plantation	
Physical Environment	Vibration	D	Regulations Low-vibration machinery	D	Regulations	
	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		с	·	
Socio-	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	c		В		
	Resettlement	С		С		
	Ethnic Groups	С		С		
	Community Cohesion	С		c		
economical	Land-use Pattern	С		В		
Environment	Industrial Activity	С		C		
	Employment & Income	В		А		······································
	Traffic Build-up	С	·	В		
	Traffic Safety	С		В		
	Archaeology	c.		8		

Assessment:

A : High Positive Impact B : Low Positive Impact

C : No Impact

	- 89 : Mutacon	•		
Segment	Province	Length (km)	Terrain	Project Type
89-1 89-2	Albay Sorsogon	76.6 52.2	Rolling Flat	New Construction of 34.7 km 2-Lane Ordinary Road

Ch		Durin	g Construction	Aft	er Completion	Domanka
i Cnec	k Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
	Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
	Water Pollution	С		С		
	Noise Pollution	С		С		
Physical Environment Socio- economical Environment	Vibration	С		C .		
	Soil Contamination	D	Waste disposal plan	С		
	Land Subsidence	С		С		
	Soil Erosion	D	Slope protection Stream protection Drainage/Vegetation	С		
	Ecosystems	С		С		
	Population Change	С		8		
	Resettlement	С		В		
	Ethnic Groups	С		C		
	Community Cohesion	С		С		
	Land-use Pattern	С		В		
	Industrial Activity	С		С		
	Employment & Income	В		В		
	Traffic Build-up	C		В		
	Traffic Safety	С		В		:
	Archaeology	С		8		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

Project - 91 : Juban-Magallanes Road								
Segment	Province	Length (km)	Terrain	Project Type				
	Sorsogon Sorsogon to Assessment	25.0 39.3	Mountainous	New Construction of 22.7 km 2-Lane Ordinary Road				

Assessment Mitigating Measures Assessment Mitigating Measures Material covering Water Pollution			During Construction		After Completion		Remarks
Air Pollution D Water spraying C Water Pollution C C C C C C C C C C C C C C C C C C C	Check	( Item	Assessment	Mitigating Measures	Assessment	Mitigating Measures	Remarks
Noise Pollution C C C  Physical Vibration C C C  Environment Soil Contamination D Waste disposal plan C  Land Subsidence C C C  Soil Erosion D Slope protection Stream protection Drainage/Vegetation C  Ecosystems C C C  Population Change C B  Resettlement C C C  Ethnic Groups C C  Community Cohesion C C  Socio- Land-use Pattern C B  Employment & Income B B		Air Pollution	D	Material covering Water spraying Minimizing Traffic	С		
Physical Vibration C C C  Environment Soil Contamination D Waste disposal plan C C C C C C C C C C C C C C C C C C C	Physical	Water Pollution	С		С		
Environment  Soil Contamination  Land Subsidence  C  Soil Erosion  D  Slope protection Stream protection Drainage/Vegetation  Ecosystems  C  Population Change  Resettlement  C  Ethnic Groups  C  Community Cohesion  C  Land-use Pattern  C  Environment  Employment & Income  B  Waste disposal plan  C  C  C  C  C  C  C  C  C  C  C  C  C		Noise Pollution	С		С		
Land Subsidence C C C  Soil Erosion D Slope protection C C C C C C C C C C C C C C C C C C C		Vibration	· c		С		
Soil Erosion D Slope protection Stream protection Drainage/Vegetation C C C C C C C C C C C C C C C C C C C		Soil Contamination	D	Waste disposal plan	С		
Soil Erosion D Stream protection C C C C C C C C C C C C C C C C C C C		Land Subsidence	С		С		
Population Change C B  Resettlement C C  Ethnic Groups C C  Community Cohesion C C  Land-use Pattern C B  Environment Employment & Income B B		Soil Erosion	D	Stream protection			
Resettlement C C  Ethnic Groups C C  Community Cohesion C C  Socio- Land-use Pattern C B  economical Industrial Activity C C  Employment & Income B B		Ecosystems	С		С		
Ethnic Groups C C  Community Cohesion C C  Socio-  Land-use Pattern C B  Environment  Employment & Income B B	economical	Population Change	С		В		
Community Cohesion C C  Socio- Land-use Pattern C B  Environment  Employment & Income B B		Resettlement	С		С		
Socio- Land-use Pattern C B  economical Industrial Activity C C  Environment Employment & Income B B		Ethnic Groups	С		С		
economical    Land-use Pattern		Community Cohesion	С		С		
Environment   Industrial Activity   C   C   C   Employment & Income   B   B		Land-use Pattern	С		В		
Employment & Income B B		Industrial Activity	С		С		
Traffic Build-up C B		Employment & Income	В		В		
Traitie barta op		Traffic Build-up	c		В		
Traffic Safety C B		Traffic Safety	С		В		
Archaeology C B		Archaeology	С		В		

Assessment:

A : High Positive Impact B : Low Positive Impact C : No Impact

