

Chapter 5. Infrastructure Sector

Infrastructure and Utilities

Infrastructure is the fundamental facilities and systems serving a country, city, or other area, including the services and facilities necessary for its economy to function.

Infrastructure is composed of public and private physical improvements such as roads, bridges, tunnels, water supply, sewers, electrical grids, telecommunications (including internet connectivity and broadband speeds). In general, it has also been defined as "the physical components of interrelated systems providing commodities and services essential to enable, sustain or enhance societal living conditions" (*Wikipedia*).

Road Transport

The transportation system in the province of Cavite is predominantly land-based, of which the main transport mode is road-based.

Cavite has twelve (12) major entrances and exits: the Manila-Cavite Coastal Road via Talaba, City of Bacoor; Cavite Toll Expressway (CAVITEX), Governor's Drive-South Luzon Expressway (SLEX) Carmona Exit, Batangas-Tagaytay/Alfonso via Aguinaldo Highway, Bacoor City-Las Piñas City via Zapote, Sta. Rosa-Tagaytay Road, Alabang-Molino, Bacoor City via Daang Hari, Muntinlupa-Cavite Expressway (MCEX) Susan Height Exit, Molino, Bacoor City-SLEX via Daang Reyna-Victoria Avenue San Pedro Exit, Ternate-Nasugbu, Batangas via Kaybiang Tunnel, Tagaytay-Taal Lake Road, Tagaytay-Talisay Road (*Provincial Road Network Development Plan*).

Roads and Bridges

Road length is reported based on road classification, namely: national road, provincial road, city/municipal road and barangay road.

As shown at Table 5.1, the province has a total road kilometerage of 2,204.6031 wherein 19.46% or 428.9970 kilometers are national roads while 379.3940 kilometers or 17.21% are provincial roads. City/municipal roads comprised 14.04% or 309.4242 kilometers while barangay roads have a total length of 1,086.7879 kilometers or 49.30% of the total road length. These roads are paved with concrete (62.32%), asphalt (16.08%), asphalted concrete (2.68%) and others remained earth fill (12.96%) and gravel roads (5.97%).

Of the total national road, 62.57% or 268.4389 kilometers are asphalted and 37.43% or 160.5581 kilometers are paved with concrete. Provincial roads paved with concrete and asphalt was registered at 238.1960 kilometers (71.56%) and 9.2600 kilometers (2.78%) respectively, while 17.35% or 57.7650 kilometers are reported asphalted concrete and 8.30% or 27.6390 kilometers remained gravel roads.

Meanwhile, 81.12% or 250.7270 kilometers of the city/municipal roads are paved with concrete, 47.6693 kilometers or 15.42% was asphalted and some portions are still earth fill and gravel roads. In addition, majority of the barangay roads or 63.97% were concreted while only 1.99% was asphalted.

Furthermore, bridge which connects roads in different cities and municipalities of the province are also classified as to national, provincial, city/municipal and barangay. Reported total length of bridge in kilometers is 6.7042 by which 3.0506 are national bridge while provincial bridge has a total length of 1.1893 kilometers. In addition, barangay and city/municipal bridge registered a combined total length of 2.4643 kilometers.

Table 5.1 Total Length of Roads and Bridges by Classification and Type of Pavement, Province of Cavite: 2017

Road Classification	Type of Pavement				Length (km)		
	Concrete	Asphalt	Gravel	Earth fill	Asphalted Concrete	Roads	Bridges
National	160.5581	268.4389	-	-	-	428.9970	3.0506
Provincial	238.1960	9.2600	27.6390	-	57.7650	379.3940	1.1893
City/Municipality	250.7270	47.6693	0.0470	10.6539	-	309.4242	0.8897
Barangay	695.5648	21.6385	101.1810	268.9936	-	1,086.7879	1.5746
Total	1,345.0459	347.0067	128.8670	279.6475	57.7650	2,204.6031	6.7042

Source: Special Projects Division, Provincial Planning & Development Office, Trece Martires City

Motor Vehicle Registration

In 2018, vehicle registrations are classified into cars, utility vehicles, sports utility vehicles, trucks, buses, motorcycles, motorcycles with side car, tricycles, non-conventional motorcycles and trailers.

Data gathered from Land Transportation Office, Region IV-A, Lipa City, Batangas which is presented at Table 5.2, the total number of registered motor vehicles in Cavite reached 352,863. This represents an increase of 18.51% or 55,113 registrations compared to 2017 data of 297,750. Among the type of vehicles, it was noted that the highest registered number of motor vehicles was motorcycles with 41.90% share or 147,858 units followed by utility vehicles with 22.55% or 79,586 units. Cars were

registered at 53,815 units or 15.25% while tricycles were posted at 9.15% registration or 32,283 units.

The table also presents the total number of registered motor vehicles by district/extension office. Cavite District Office located in Putol, Kawit has the highest registration comprising 35.61% or 125,655 registrations followed by City of Bacoor District Office with 86,199 registered vehicles or 24.43% share. Meanwhile, Tagaytay City District Office recorded a total of 71,321 units or 20.21% while City of Dasmariñas District Office has a total registration of 52,671 units or 14.93% share. In addition, City of Imus District Office and Naic Extension Office have a combined vehicle registration of 17,017 units.

Table 5.2 Number of Vehicle Registration by Type, Province of Cavite: 2018

Type of Vehicle	Number of Vehicle Registration						Total
	City of Bacoor District Office	City of Dasmariñas District Office	Cavite District Office	Tagaytay City District Office	City of Imus District Office	Naic Extension Office	
Cars	14,753	7,304	15,595	12,976	3,141	46	53,815
Utility Vehicles	23,866	8,517	22,583	20,883	3,669	68	79,586
Sports Utility Vehicle	5,654	2,403	5,478	4,276	1,396	13	19,220
Trucks	1,342	240	1,231	1,055	91	-	3,959
Buses	24	3	99	60	1	-	187
Motorcycles	26,550	27,512	63,322	22,940	7,158	376	147,858
Motorcycle with Side Car	3,537	2,783	5,743	2,902	560	25	15,550
Tricycle	10,247	3,905	11,456	6,204	451	20	32,283
Non-conventional Motorcycle	8	1	4	2	2	-	17
Trailers	218	3	144	23	-	-	388
Total	86,199	52,671	125,655	71,321	16,469	548	352,863

Source: Land Transportation Office, Region IV-A, Lipa City, Batangas

Licenses and Permits

Data on licenses and permits issued totaled to 332,268 issuances by which 99.81% or 331,626 are driver's license while 642 or 0.19% are conductors permit. Also, out of these issuances, 154,299 are new application, 171,036 are renewal and 6,933 are conversion. Professional license contributed 29.75% share or 98,643 issuances while non-professional driver's license was registered at 38.79% issuances or 128,650. Student permit was recorded at 31.46% share or 104,333 issuances.

The highest issuances were posted at Tagaytay City District Office with 94,450 or 28.43% followed by Cavite Licensing Center in Kawit having 60,292 issuances or 18.15%. Furthermore, 14.62% issuances or 48,572 were posted at City of Dasmariñas District Office; City of Bacoor District Office has 37,414 issuances or 11.26% while City of Imus and Naic Extension Office have 11,807 and 6,900 issuances respectively.

Last 2015, the Land Transportation Office (LTO) launches its new service improvement program involving the creation of Driver's License Renewal Offices (DLROs) at

various shopping malls nationwide in order to provide applicants with more convenient alternatives in renewing their licenses (www.wazzuppilipinas.com). In Cavite, it was located at Robinsons Mall, City of Imus and Robinsons Place, Cities of Gen. Trias and Dasmariñas. DLRO is an LTO renewal office that caters to the plain renewal of driver's and conductor's licenses without alarm or change in information (officialgazette.gov.ph DOTC Department Order No. 2015-014 Definition of Terms). DLROs posted a combined total of 72,833 issuances or 21.92% share by which 24,709 issuances were registered at DLRO City of Gen. Trias, 26,096 issuances at DLRO City of Dasmariñas and 22,028 issuances at DLRO City of Imus (Tables 5.3 and 5.4).

Table 5.3 Number of Licenses Issued by District/DLRO/Extension Offices, Province of Cavite: 2018

Agency	Professional				Non-Professional				Student Permit	Total
	New	Ren*	Con*	Subtotal	New	Ren*	Con*	Subtotal	New	
City of Bacoor District Office	-	12,022	-	12,022	35	9,709	1,368	11,112	14,275	37,409
City of Imus District Office	-	3,485	-	3,485	-	3,417	-	3,417	4,898	11,800
City of Dasmariñas District Office	403	11,611	-	12,014	8,159	11,743	131	20,033	16,454	48,501
Cavite Licensing Center	2,369	14,475	14	16,858	12,657	12,400	4,691	29,748	13,559	60,165
Tagaytay City District Office	5,073	25,114	6	30,193	21,064	18,383	720	40,167	23,750	94,110
Naic Extension Office	-	1,795	-	1,795	-	1,426	3	1,429	3,644	6,868
DLRO City of Imus	-	7,091	-	7,091	-	7,859	-	7,859	7,076	22,026
DLRO City of	-	9,096	-	9,096	-	7,673	-	7,673	9,269	26,038
DLRO City of Gen. Trias	-	6,089	-	6,089	-	7,212	-	7,212	11,408	24,709
Total	7,845	90,778	20	98,643	41,915	79,822	6,913	128,650	104,333	331,626

Source: Land Transportation Office, Region IV-A, Lipa City, Batangas

*Ren – Renewal; Con – Conversion

Table 5.4 Number of Conductors Permit and Total Licenses and Permits Issued by District/DLRO/Extension Offices, Province of Cavite: 2018

Agency	Conductors Permit			Total Licenses and Permits Issued
	New	Ren*	Total	
City of Bacoor District Office	-	5	5	37,414
City of Imus District Office	-	7	7	11,807
City of Dasmariñas District Office	42	29	71	48,572
Cavite Licensing Center	64	63	127	60,292
Tagaytay City District Office	100	240	340	94,450
Naic Extension Office	-	32	32	6,900
DLRO City of Imus	-	2	2	22,028
DLRO City of Dasmariñas	-	58	58	26,096
DLRO City of Gen. Trias	-	-	-	24,709
Total	206	436	642	332,268

Source: Land Transportation Office, Region IV-A, Lipa City, Batangas

*Ren – Renewal

Irrigation

Irrigation systems can be classified into three categories: national, communal, and private. National irrigation systems (NIS) are large and medium schemes. These are basically operated and maintained by NIA where beneficiaries were charged in their irrigation service fee for the services rendered in the delivery of water. In the 1980s, joint management of portions of national systems with irrigators associations (IA) was affected.

Communal irrigation systems (CIS) are small-scale schemes and constructed with the participation of farmer-beneficiaries thru their IAs. The operation and maintenance (O&M) of CIS is turned over to IAs upon project completion subject to a cost recovery arrangement. Farmers amortize the chargeable cost for a period not exceeding 50 years at 0% interest. The repayment scheme is pre-arranged and acceptable to both NIA and the IA. Another scheme is the payment of 30% equity equivalent to 30% of the total direct cost which is to be paid annually.

Private irrigation systems are those constructed, operated and maintained by private individuals or groups with or without technical assistance by NIA or other government agencies (www.nia.gov.ph).

NIA Cavite Report

The reported firm-up service area (FUSA) in 2018 totaled to 9,780.00 hectares by which 8,542.00 hectares comprised national irrigation system (Table 5.5) while 1,238.00 hectares are communal irrigation system (Table 5.6).

Table 5.5 shows that the national irrigation system (NIS) covers the municipalities of Maragondon, Ternate, Naic, Tanza, and the Cities of Gen. Trias, Imus, Bacoor, and Dasmariñas. Of the total NIS' firm-up service area, 5,225.00 hectares are operational while 3,317.00 hectares are non-operational. Furthermore, communal irrigation system (CIS) serves the municipalities of Kawit, Gen. E. Aguinaldo, Ternate, Maragondon, Carmona, Silang, Gen. Mariano Alvarez, Naic, Magallanes, Amadeo, the Cities of Bacoor and Dasmariñas. Out of the total CIS' firm-up service area, 821.00 hectares are operational while 417.00 hectares are non-operational (Table 5.6).

Table 5.5 National Irrigation System's Firmed-up Service Area, Province of Cavite: 2018

System	City/ Municipality	Total	Firmed – Up Service Area (Has.)		
			Operational	Non- operational	Farmer Beneficiaries
Molino River Irrigation System (RIS)	City of Bacoor	84.00	40.00	44.00	75
Luksuhin RIS	City of Dasmariñas	109.00	52.00	57.00	77
Embarcadero RIS	City of Dasmariñas	61.00	40.00	21.00	47
Makuling RIS	City of Dasmariñas	149.00	25.00	124.00	86
Baluctot RIS	City of Dasmariñas	150.00	96.00	54.00	130
Butas-Lawang Bato RIS	City of Gen. Trias	529.00	307.00	222.00	278
Butas RIS	City of Gen. Trias	269.00	185.00	84.00	182
Plucena-Bayan RIS	City of Gen. Trias	290.00	157.00	133.00	162
Vargas (Bankud) RIS	City of Gen. Trias	544.00	210.00	334.00	340
Butas-Palanas RIS	City of Gen. Trias	480.00	147.00	333.00	189
Butas-Marcelo RIS	City of Gen. Trias	335.00	77.00	258.00	165
Julian RIS	City of Imus	208.00	64.00	144.00	106
San Agustin RIS	City of Imus	414.00	224.00	190.00	278
Pasong Kastila RIS	City of Imus	511.00	227.00	284.00	288
Kay-Akle RIS	Maragondon	385.00	299.00	86.00	257
Balayungan RIS	Maragondon	207.00	207.00	-	149
Balayungan RIS	Naic	1,317.00	1,128.00	189.00	831
Culong-Culong RIS	Naic	475.00	347.00	128.00	397
Sahing RIS	Naic	202.00	130.00	72.00	176
Tres Cruces RIS	Tanza	573.00	512.00	61.00	172
Matanda RIS	Tanza	1,175.00	676.00	499.00	483
Balayungan RIS	Ternate	22.00	22.00	-	18
Kay-Akle RIS	Ternate	18.00	18.00	-	14
Mabacao Pump	Maragondon	35.00	35.00	-	35
Total		8,542.00	5,225.00	3,317.00	4,956

Source: National Irrigation Administration, Naic, Cavite

Table 5.6 Communal Irrigation System's Firmed-up Service Area, Province of Cavite: 2018

System	City/ Municipality	Total	Firmed – Up Service Area (Has.)		
			Operational	Non- operational	Farmer Beneficiaries
Lantic I CIS	Carmona	99.00	99.00	-	82
Lantic II CIS	Carmona	55.00	55.00	-	88
Malinta CIS	City of Dasmariñas	-	-	-	-
Narvaez CIS	Gen. E. Aguinaldo	100.00	100.00	-	-
Gen. E. Aguinaldo CIS	Gen. E. Aguinaldo	135.00	135.00	-	50
Magay CIS	Maragondon	300.00	56.00	244.00	73
Golova CIS	Ternate	60.00	60.00	-	28
Halang PCIP	Amadeo	26.00	26.00	-	30
San Nicolas II PIS	City of Bacoor	52.00	43.00	9.00	4
Bacoor II Pump Irrigation Project	City of Bacoor, Molino	10.00	10.00	-	4
Maduya Pump Communal Irrigation System (PCIS)	Carmona	34.00	34.00	-	7
Langkaan PCIP	City of Dasmariñas	24.00	24.00	-	32
Olaes Kua PCIP	Gen. Mariano Alvarez	40.00	40.00	-	-
Pasong Saging PCIS	Gen. Mariano Alvarez	34.00	-	34.00	99
F. De Castro PCIS	Gen. Mariano Alvarez	32.00	32.00	-	80
Kawit PCIS	Kawit	60.00	-	60.00	20
Tua PIP	Magallanes	40.00	40.00	-	-
Pacheco PCIS	Magallanes	42.00	12.00	30.00	10
Palangue PCIS	Naic	55.00	35.00	-	-
Lumil & Tartaria PCIS	Silang	40.00	-	40.00	16
Total		1,238.00	821.00	417.00	623

Source: National Irrigation Administration, Naic, Cavite

Water Supply

Water service providers in the Province of Cavite includes Maynilad Water Services, Inc. which is also known as Maynilad, a water and waste water services provider of cities and municipalities of the National Capital Region that forms the West Zone and some parts of Cavite which include City of Imus, City of Bacoor, Cavite City and the municipalities of Noveleta, Kawit and Rosario (*Wikipedia*), while the municipalities of Amadeo, Carmona, City of Dasmariñas, Gen. E. Aguinaldo, Gen. Mariano Alvarez, Indang, Maragondon, Mendez, Silang, Tagaytay City, Tanza and Trece

Martires City are being supplied by water districts. Likewise, there are other water service providers operating in the province like General Trias Water Corporation in City of Gen. Trias, Naic Water System Corporation in Naic and Western Cavite Water Supply and Service Corporation in Ternate while the municipal governments of Alfonso and Magallanes manage their respective water supply systems. Table 5.7 shows the number of customers served and the residential water rate schedule of each water service providers.

Table 5.7 Number of Customers Served and Residential Water Rates by Water Service Providers, Province of Cavite: 2018

Water Agency	Number of Customers Served						Residential Water Rates (Minimum Charge for 1st 10 cu.m.)
	Residential	Commercial	Semi-Commercial	Government	Institutional	Total	
Maynilad Water Services, Inc.	132,040	2,617		207		134,864	164.16
Alfonso Waterworks Office	1,460	81	1	6	25	1,573	100.00
Magallanes Waterworks Office	3,814	117		48		3,979	150.00
Naic Water Supply Corp.	8,495	348				8,843	120.00
Western Cavite Water Supply & Services Corp.	1,545	1		12		1,558	144.00
Amadeo Water District	7,464	107		41		7,612	211.00
Carmona Water District	12,956	659		78		13,693	238.60
Dasmariñas Water District	95,489	15,962		248		111,699	173.00
Gen. E. Aguinaldo Water District	2,879	70	104	11		3,064	163.00
Gen. Trias Water Corporation	47,716	1,211		85		49,012	180.00
GMA Water District	18,516	251	592	53		19,412	280.00
Indang Water District	7,630	488		70		8,188	188.00
Maragondon Water District	3,290	273		40		3,603	168.00
Mendez Water District	4,960	219				5,179	195.00
Silang Water District	37,507	1,576	132			39,215	229.00
Tagaytay City Water District	14,665	1,407		110	79	16,261	254.00
Tanza Water District	13,624	378		49		14,051	180.00
Trece Martires City Water District	22,587	395		134		23,116	170.00
Total	436,637	26,160	829	1,192	104	321,215	

Source: Special Projects Division, PPDO, Trece Martires City

Power

The Province of Cavite is mainly being serviced by the Manila Electric Company when it comes to electric power supply. All towns down to all barangays of Cavite have access to electric power supplied by Meralco thus giving the province's energization rate of 100% (PDPFP 2011-2020).

Consolidated number of customers by city/municipality of the province totaled to 916,106 customers, wherein residential customers accounted for 93.86% totaling to 859,865 while commercial customers registered at 5.97% or 54,673. Furthermore, industrial and streetlight customers totaled to 728 and 840, respectively. These accounted for less than 1% of total customer count (Table 5.8). Meanwhile, in terms of household electrification, data gathered from MERALCO shows that

out of 991,311 household of the province, the estimated electrified household was 960,987 or 96.94%. In addition, the city/municipality's estimated percentage household electrification was also presented at Table 5.9. (As per Meralco, the household electrification survey and estimates was based on the 2015 Census Report by the Philippine Statistics Authority).

Table 5.10 shows the existing substation in the province and its location. A substation is a part of an electrical generation, transmission, and distribution system. Substations transform voltage from high to low, or the reverse, or perform any of several other important functions. Between the generating station and consumer, electric power may flow through several substations at different voltage levels (Wikipedia).

Table 5.8 Number of MERALCO Customers by City/Municipality, Province of Cavite: 2017

City/ Municipality	Number of Customers				
	Residential	Commercial	Industrial	Streetlight	Total
1st District	67,703	6,309	19	34	74,065
Cavite City	18,720	1,867	2	2	20,591
Kawit	19,506	1,874	10	23	21,413
Noveleta	10,222	970	1	5	11,198
Rosario	19,255	1,598	6	4	20,863
2nd District	123,034	8,385	40	147	131,606
City of Bacoor	123,034	8,385	40	147	131,606
3rd District	117,229	7,228	42	96	124,595
City of Imus	117,229	7,228	42	96	124,595
4th District	147,005	9,375	148	133	156,661
City of Dasmariñas	147,005	9,375	148	133	156,661
5th District	101,375	6,791	323	92	108,581
Carmona	22,795	1,730	207	39	24,771
Gen. Mariano Alvarez	26,864	1,389	9	10	28,272
Silang	51,716	3,672	107	43	55,538
6th District	206,216	9,324	138	205	215,883
Amadeo	7,395	428	1	2	7,826
City of Gen. Trias	102,169	3,966	77	131	106,343
Tanza	57,470	3,295	25	52	60,842
Trece Martires City	39,182	1,635	35	20	40,872
7th District	97,303	7,261	18	133	104,715
Alfonso	11,765	1,002	2	15	12,784
Gen. E. Aguinaldo	3,682	221	1	0	3,904
Indang	13,399	917	2	5	14,323
Magallanes	3,788	219	-	8	4,015
Maragondon	6,029	536	2	-	6,567
Mendez	6,483	440	1	3	6,927
Naic	26,119	1,707	7	25	27,858
Tagaytay City	22,664	2,021	1	74	24,760
Ternate	3,374	198	2	3	3,577
Total	859,865	54,673	728	840	916,106

Source: MERALCO, Ortigas Avenue, Pasig City

Table 5.9 Number of Electrified Household by City/Municipality, Province of Cavite: 2017

City/Municipality	Total Household	Estimated Electrified Household	Estimated % Household Electrification
1st District		85,456	96.33
Cavite City	27,553	27,167	98.60
Kawit	21,572	21,096	97.79
Noveleta	12,100	11,668	96.43
Rosario	27,491	25,525	92.85
2nd District	157,985	153,878	97.40
City of Bacoor	157,985	153,878	97.40
3rd District	152,969	150,006	98.06
City of Imus	152,969	150,006	98.06
4th District	170,143	166,520	97.87
City of Dasmariñas	170,143	166,520	97.87
5th District	122,699	116,505	94.95
Carmona	22,816	22,404	98.19
Gen. Mariano Alvarez	38,151	37,759	98.97
Silang	61,732	56,342	91.27
6th District	188,527	183,052	97.10
Amadeo	9,237	8,988	97.30
City of Gen. Trias	76,739	74,495	97.08
Tanza	58,532	56,243	96.09
Trece Martires City	44,019	43,326	98.43
7th District	110,272	105,570	95.74
Alfonso	13,342	13,136	98.46
Gen. E. Aguinaldo	5,080	4,885	96.16
Indang	17,182	16,979	98.82
Magallanes	4,909	4,782	97.41
Maragondon	9,088	8,979	98.80
Mendez	7,467	7,348	98.41
Naic	28,703	25,833	90.00
Tagaytay City	18,399	18,125	98.51
Ternate	6,102	5,503	90.18
Total	991,311	960,987	96.94

Source: MERALCO, Ortigas Avenue, Pasig City

Table 5.10 Existing Power Substations, Province of Cavite: 2018

Substation	Location
Abubot Substation	Aguinaldo Hi-way, Abubot, City of Dasmariñas
Amadeo Substation	Provincial Road, Banaybanay, Amadeo
Bacoor Substation	Aguinaldo Highway, Habay, City of Bacoor
FCIE Substation	Langkaan, City of Dasmariñas
Gateway Substation	Gateway Business Park, Javalera, City of Gen. Trias
GMA Substation	Lakeview Industrial Corp., Kabilang Baybay, Gen. Mariano Alvarez
Imus Substation	Aguinaldo Highway, Anabu, City of Imus

Substation	Location
Puerto Azul Substation	Puerto Azul, Ternate
Silang Substation	Aguinaldo Highway, San Vicente, Silang
Tagaytay Substation	Aguinaldo Highway, Buho, Silang
Tagaytay West Substation	National Road, Maharlika West, Tagaytay City
Tanza Substation	National Road, Amaya, Tanza
TMC II Substation	National Road, Tanauan (Quintana), Tanza
Dasmariñas Substation	Aguinaldo Highway, San Agustin I, City of Dasmariñas
Rosario Substation*	Along Gen. Trias Drive, Rosario
Ternate Substation*	Along Governor's Drive, Ternate

Source: MERALCO, Ortigas Avenue, Pasig City

*NGCP – owned substation

Communication

The Philippines' National Telecommunications Commission, abbreviated as NTC, is an attached agency of the Department of Information and Communications Technology responsible for the supervision, adjudication and control over all telecommunications services throughout the country (*Wikipedia*).

Communication is a two-way process of reaching mutual understanding, in which participants not only exchange information, news, ideas and feelings but also create and share meaning. In general, communication is a means of connecting people or places. In business, it is a key function of management--an organization cannot operate without communication between levels, departments and employees. Nowadays, electronic communication is an efficient way to deliver mass messages to various people. Companies typically use it to communicate with customers and the general public, by creating different channels that fit their target markets. Electronic communication is also a fast way to contact people from other parts of the globe. Examples of electronic communication include online chat, emails, text messages, social networks and web conferences (www.businessdictionary.com).

People communicate with each other by writing letters, sending telegrams, radio, television, computer technology, newspapers, magazines and pamphlets; messages can be sent by telegram, facsimile machine (FAX) and E-mail (Electronic mail) for business trade and other services.

Based on record from National Telecommunications Commission (NTC), Region IV-A, Batangas City, telephone service providers in Cavite are Philippine Long Distance Telephone Company (PLDT) and Innove (Globetel). However, data are not available regarding the number of subscribers.

Cellular mobile telephone system providers shown at Table 5.11 with its corresponding number of cell sites

were Smart Communications, Inc., Globe Telecom, Inc. and Digitel Mobile Philippines, Inc. Cable TV service providers are also present in the province.

Furthermore, there are two (2) radio stations operating namely, the Delta Broadcasting System and De La Salle University while there are registered radio groups that help the community especially at times of disasters, one of that is the Public Assistance for Rescue, Disaster & Support Services (PARDSS) Foundation International, Inc. (Tables 5.12 & 5.13).

Table 5.11 Cellular Mobile Telephone Systems (CMTS) Providers and Number of Cell sites, Province of Cavite: 2018

Name of Company	Number of Cell sites
Smart Communications, Inc.	309
Globe Telecom, Inc.	132
Digitel Mobile Philippines, Inc	79
Total	520

Source: National Telecommunications Commission (NTC), Region IV-A, Batangas City

Table 5.12 Operating Radio Stations, Province of Cavite: 2018

Operating Agency	Location	Call-Sign
I. AM Broadcasting		
Delta Broadcasting System	Manila-Cavite Road, San Rafael III, Noveleta	DWXI - AM
II. FM Broadcasting		
De La Salle University	JFH Building, DLSU Campus, City of Dasmariñas, Cavite	DWSU - FM

Source: National Telecommunications Commission (NTC), Region IV-A, Batangas City

Table 5.13 Registered Radio Groups and Location of Base Station, Province of Cavite: 2018

Name of Group/Club	Location of Base Station
I. Amateur Radio Group	
Cavite Amateur Communication Enthusiast, Inc. (DXI-ACE)	Alvaran Compound, St. Charbel, South Executive VII, City of Dasmariñas and B-7, L-1 Villa Luisa Subd. San Agustin, City of Dasmariñas
Communications World of Amateur Phils., Inc.	A & V Soriano M.D. Bldg., 178, Zapote, City of Bacoor
II. Civic Radio Group	
79 CBR Civic Radio Group, Inc.	Blk 3 Lot 20 St. Martin de Porres Villa, Bayan Luma, City of Imus and 0099 Habay I, City of Bacoor
Kabalikat Civicom, Inc. (Cavite Provincial Council)	Daang Bukid, City of Bacoor and 285 Capt. Villareal St., Caridad, Cavite City

Table 5.13 continued...

Name of Group/Club	Location of Base Station
Kabalikat Civicom, Inc. (Cavite Chapter)	Blk 4 Lot 36, Poblacion I, Gen. Mariano Alvarez
United Muslim & Christian Riverside Community Association, Inc. (UMCRC) Sagip Ilog Volunteer Association, Inc.	Blk 41, Lot 15 Datu Esmael, City of Dasmariñas
Public Assistance For Rescue, Disaster and Support Services (PARDSS) Foundation International, Inc. (Maragondon & Ternate Chapter)	Maragondon & Ternate
Concerned Brotherhood Comm. Group, Inc.	San Nicolas 3, City of Bacoor

Source: National Telecommunications Commission (NTC), Region IV-A, Batangas City

Philippine Postal Corporation, abbreviated as PHLPost, is the government-owned and controlled corporation responsible for providing postal services in the Philippines (*Wikipedia*). Data gathered from PHLPost, Manila revealed that despite the existence of modern means of communications, there are still domestic and international mails being handled by post offices located in every city/municipality of the province. Volume of these mails is shown in Tables 5.14.

It is noted that the municipality of Gen. E. Aguinaldo received their mails thru the municipality of Alfonso while the mails for the municipalities of Magallanes, Maragondon and Ternate are delivered at the municipality of Naic (*Post Office, Alfonso*).

As defined, mails posted are mails received from windows, counters, lobby drop boxes and street boxes while mails delivered are mails distributed in the locality through letter carriers through the use of post office (P.O.) boxes (*psa.gov.ph*).

Table 5.14 Volume of Mails Posted and Delivered by Post Office, Province of Cavite: 2018

Post Office	Posted			Delivered		
	Domestic	International	Total	Domestic	International	Total
1st District	37,705	4,141	41,486	348,676	314,193	662,869
Cavite City Post Office	2,881	449	3,330	9,229	2,088	11,317
Kawit Post Office	8,279	1,483	9,762	132,917	10,954	143,871
Noveleta Post Office	12,160	836	12,996	55,924	1,823	57,747
Rosario Post Office	14,385	1,373	15,758	150,606	299,328	449,934
2nd District	144,725	5,824	150,549	1,325,634	29,574	1,355,208
City of Bacoor Post Office	129,988	4,146	134,134	831,945	22,281	854,226
Molino Post Office	14,737	1,678	16,415	493,689	7,293	500,982
3rd District	26,139	1,029	27,168	240,773	8,353	249,126
City of Imus Post Office	24,163	745	24,908	218,046	7,833	225,879
Robinson Post Office	443	248	691	-	-	-
Bahayang Pag-asa Post Office	1,533	36	1,569	22,727	520	23,247
4th District	90,863	8,137	99,000	1,012,533	40,480	1,053,013
City of Dasmariñas Post Office	36,419	2,283	38,702	-	-	-
City of Dasmariñas Central Post Office	43,686	3,886	47,572	1,012,533	40,480	1,053,013
First Cavite Industrial Estate	5,092	352	5,444	-	-	-
Robinson Post Office	5,666	1,616	7,282	-	-	-
5th District	91,695	11,846	103,541	1,226,100	54,633	1,280,733
Carmona Post Office	27,288	2,396	29,684	346,327	39,744	386,071
Gen. Mariano Alvarez Post Office	21,824	1,128	22,952	141,526	2,289	143,815
Silang Post Office	42,583	8,322	50,905	738,247	12,600	750,847
6th District	54,998	4,655	59,653	332,738	12,148	344,886
City of Gen. Trias Post Office	42,009	2,465	44,474	145,872	2,385	148,257
Manggahan Post Office	12,989	2,190	15,179	186,866	9,763	196,629
7th District	50,109	6,003	56,112	683,352	29,795	713,147
Amadeo Post Office	858	130	988	109,804	3,737	113,541
Indang Post Office	15,029	605	15,634	88,721	3,468	92,189
Tanza Post Office	8,141	2,774	10,915	204,359	6,175	210,534
Trece Martires City Post Office	26,081	2,494	28,575	280,468	16,415	296,883
8th District	119,549	9,924	129,473	804,423	37,311	841,734
Alfonso Post Office	22,502	360	22,862	37,994	4,175	42,169
Naic Post Office	14,845	1,423	16,268	322,069	12,645	334,714
Mendez Post Office	993	471	1,464	28,287	2,459	30,746
Ternate Post Office	1,059	-	1,059	-	-	-
Tagaytay City Post Office	80,150	7,670	87,820	416,073	18,032	434,105
Total	615,783	51,559	667,342	5,974,229	526,487	6,500,716

Source: Philippine Postal Corporation, Manila