# Chapter VII. Infrastructure Sector

## TRANSPORT

Progress is only possible if all sectors of the economy are on concerted advancement and no sector is left behind. One of which is the infrastructure and utilities sector that plays a vital role in paving the way for development. Included in the infrastructure sector is the transportation. Having efficient transport means and transportation networks are very important for any province, thus having an efficient and effective transport system, access roads and traffic circulation is a good indicator of a well-organized province and is an added factor for investment that will likely lead to development.

With the progress happening to the province of Cavite, the transport infrastructure also improved in order to cope up with the demand of the growing economy and population. At present, with the increasing industrial and commercial activities which sometimes results to quilts of urban sprawl, traffic congestion and increased road accidents, more transportation facilities, better traffic control systems and road signages are provided by the provincial government.

ROADS AND BRIDGES CARMONA

The transportation system in the Province of Cavite is predominantly land-based, of which the main transport mode is road-based. The roads are classified into national, provincial, city/municipal, and barangay roads. The national roads mainly connect the province to its neighboring provinces. The provincial roads are major roads that connect different municipalities and cities within the province. The national roads form part of the trunkline systems and are connected by provincial roads from one city/municipality to another, and the city/municipal roads interlink barangays.

Cavite's total road network comprises roughly 2,186.4644 kilometers wherein 18.71 percent or 408.9790 kilometers are national roads while 369.6810 kilometers or 16.91 percent are provincial roads. Barangay roads has a total length of 1,081.8035 kilometers or 49.48% of the total road length by which majority are concrete and earthfill roads while 87.37percent of the city/municipal roads are paved with concrete (Table 7.1).

Cavite has six (6) major entrances and exits: the Aguinaldo Boulevard (Manila-Cavite Coastal Road), South Luzon Expressway (SLEX) in Carmona, the Aguinaldo Highway (Batangas-Alfonso-Tagaytay Road), the Zapote-Las Piñas Road, the Sta. Rosa-Tagaytay Road, and the Alabang-Molino via Daang Hari Road.

Table 7.2 shows that there are 323 bridges which connect roads in different cities and municipalities of the province. These are also classified as national, provincial, city/municipal and barangay bridges having a total length of 6,319.484 linear meters. Permanent bridges totalled to 205 with a length of 5,673.484 linear meters while temporary structures comprise 11.15 percent of the total bridges or 36 having a length of 646 linear meters.

Table 7.1. Total Length of Roads by Type of Pavement and by Road Classification, Province of Cavite: 2010

|                     |                  | Type of Pavement                       |          |                   |                |  |  |  |
|---------------------|------------------|--|----------|-------------------|----------------|--|--|--|
| Road Classification | Concrete<br>(km) | Concrete Asphalt Gravel (km) (km) (km) |          | Earthfill<br>(km) | Length<br>(km) |  |  |  |
| National            | 206.8242         | 202.1548                               | 0.0000   | 0.0000            | 408.9790       |  |  |  |
| Provincial          | 277.8750         | 44.9820                                | 46.8240  | 0.0000            | 369.6810       |  |  |  |
| City/Municipal      | 284.8338         | 27.7359                                | 3.4600   | 9.9712            | 326.0009       |  |  |  |
| Barangay            | 660.4268         | 29.3199                                | 102.6553 | 289.4015          | 1081.8035      |  |  |  |
| GRAND TOTAL         | 1429.9598        | 304.1926                               | 152.9393 | 299.3727          | 2186.4644      |  |  |  |

Source: Special Projects Division

Provincial Planning & Development Office, Trece Martires City

Table 7.2. Number and Length of Existing Bridges, Province of Cavite: 2010

|                |           | Number    |       | Length in Linear Meter |           |                 |  |  |
|----------------|-----------|-----------|-------|------------------------|-----------|-----------------|--|--|
| Classification | Permanent | Temporary | Total | Permanent              | Temporary | Total<br>Length |  |  |
| National       | 100       | 2         | 102   | 2,920.13               | 80.90     | 3,001.03        |  |  |
| Provincial     | 60        | 9         | 69    | 857.45                 | 135.40    | 992.85          |  |  |
| City/Municipal | 36        | 3         | 39    | 724.45                 | 131.00    | 855.45          |  |  |
| Barangay       | 9         | 22        | 113   | 1,171.45               | 298.70    | 1,470.15        |  |  |
| GRAND TOTAL    | 205       | 36        | 323   | 5673.484               | 646.00    | 6319.484        |  |  |

Source: Special Projects Division

Provincial Planning & Development Office, Trece Martires City

# Transport Facilities

Land Transportation Office is the regulatory agency on the registration of transport facilities, whether public or private. Based on 2010 data gathered from the Land Transportation Office (LTO), Region IV in Lipa City, Batangas, there are 219,859 units of motor vehicles registered in the province by which 36.26 percent or 79,719 units are registered in Imus District Office while 23.28 percent or 51,181 units are in Cavite City Licensing Office. Tagaytay City Extension Office reflects a total of 44,105 units and City of Dasmariñas Office has a total of 44,854 units or 20.40% share. These vehicles which regularly ply the roads include cars, utility vehicles, sports utility vehicle, trucks, buses, motorcycle/tricycle and trailers (Table 7.3).

LTO Cavite has also issued 95,367 new and renewal licenses by which 55,350 or 58.04 percent are professional licenses while 41.96 percent or 40,017 are non-professional licenses. Among the four (4) offices, Cavite City Licensing Office has the most number of issuances with 36,866 and followed by Tagaytay City Extension Office with 27,178 issuances. Moreover, permits issued are categorized as student and conductor permits totalling to 45,210 by which 13,404 issuances are from City of Dasmariñas Extension Office, 11,843 permits are from Cavite City Licensing Office while Imus District Office and Tagaytay City Extension Office has 11,698 and 8,265 issuances, respectively. Table 7.4 shows that licenses and permits issued totalled to 140,577.

Table 7.3. Number of Vehicle Registration by Type, Province of Cavite: 2010

|                     |              | Number of Vehicle Registration |                        |                                |         |  |  |  |  |
|---------------------|--------------|--------------------------------|------------------------|--------------------------------|---------|--|--|--|--|
| Type of Vehicle     | lmus<br>D.O. | Cavite City<br>L. O.           | Tagaytay<br>City E. O. | City of<br>Dasmariñas<br>E. O. | Total   |  |  |  |  |
| Cars                | 13,097       | 5,649                          | 6,567                  | 5,225                          | 30,538  |  |  |  |  |
| Utility Vehicle     | 27,184       | 12,056                         | 16,462                 | 9,415                          | 65,117  |  |  |  |  |
| SUV                 | 2,296        | 1,290                          | 1,217                  | 771                            | 5,574   |  |  |  |  |
| Truck               | 1,689        | 776                            | 829                    | 375                            | 3,669   |  |  |  |  |
| Buses               | 139          | 838                            | 165                    | 18                             | 1,160   |  |  |  |  |
| Motorcycle/Tricycle | 35,213       | 30,536                         | 18,856                 | 29,047                         | 113,652 |  |  |  |  |
| Trailers            | 101          | 36                             | 9                      | 3                              | 149     |  |  |  |  |
| GRAND TOTAL         | 79,719       | 51,181                         | 44,105                 | 44,854                         | 219,859 |  |  |  |  |

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

Table 7.4. Number of Licenses and Permits Issued by Classification by District, Province of Cavite: 2010

|                                     |       |            |           | Licenses |             |           |        | Permit |           |     |                   |           |        |                               |
|-------------------------------------|-------|------------|-----------|----------|-------------|-----------|--------|--------|-----------|-----|-------------------|-----------|--------|-------------------------------|
| Agency                              |       | Profession | nal       | N        | on-Professi | onal      |        | Stude  | nt Permit | C   | Conductors Permit |           |        | Total Licenses<br>and Permits |
|                                     | New   | Renewal    | Sub-Total | New      | Renewal     | Sub-Total | Total  | New    | Sub-Total | New | Renewal           | Sub-Total | Total  | Issued                        |
| Tagaytay City Extension Office      | 2,966 | 12,985     | 15,951    | 5,482    | 5,745       | 11,227    | 27,178 | 7,976  | 7,976     | 175 | 114               | 289       | 8,265  | 35,443                        |
| Imus District Office                |       | 9,259      | 9,259     |          | 6,430       | 6,430     | 15,689 | 11,692 | 11,692    |     | 6                 | 6         | 11,698 | 27,387                        |
| City of Dasmariñas Extension Office |       | 9,973      | 9,973     | 45       | 5,616       | 5,661     | 15,634 | 12,892 | 12,892    |     | 512               | 512       | 13,404 | 29,038                        |
| Cavite City Licensing Office        | 3,908 | 16,259     | 20,167    | 9,276    | 7,423       | 16,699    | 36,866 | 11,665 | 11,665    | 105 | 73                | 178       | 11,843 | 48,709                        |
| GRANDTOTAL                          | 6,874 | 48,476     | 55,350    | 14,803   | 25,214      | 40,017    | 95,367 | 44,225 | 44,225    | 280 | 705               | 985       | 45,210 | 140,577                       |

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

#### **COMMUNICATION**

BACOOR

In today's business and commerce environment, state of the art communication mediums are necessary towards the success of any business endeavour. The province of Cavite is persistent in ensuring that business owners and industrial locators as well as the residents are given access to the communication system that best fits their needs. Telecommunication and postal services add to the sophistication of various establishments located in the province. These services are also useful at home, schools and government and private offices. Data gathered from National Telecommunications Commission, Region IV, Batangas City indicates that telephone services are being provided mostly by the Philippine Long Distance Telephone Company (PLDT) with 80,237 subscribers, Digital Telecommunications Philippines, Inc. (DIGITEL) having 18,807 subscribers and Globe Telecommunications with 77,691 subscribers (Table 7.5). The PLDT remains to be the biggest service provider in terms of landline telephone service with a market share of 44.99% in 2010. The total number of subscribers ticked at 178,345.

Radio stations, cable TV service providers and cell sites are also available (Tables7.6 to 7.8). In terms of number of cell sites, the facilities that provide signal to mobile phones in order to communicate, we can generalize that Smart Communications is the strongest in the province followed by the Globe Telecom, Inc. and the third is Digitel Mobile Philippines which powers Sun Cellular Network. Philippine Telegraph and Telephone Company (PT & T), Radio Communications of the Philippines, Inc. (RCPI), LBC Express, Inc. and DHL Forwarder also perform specific telecommunication and courier services throughout the province. Due to the proximity of the province to Metro Manila, the province is generally under the coverage of such radio stations, thus there are limited local radio stations in Cavite.

Moreover, the Philippine Postal Corporation takes postal service in the cities/municipalities of Cavite. Records gathered from this office show that there are 34 post offices in the province responsible for posting and delivering a total of 10,823,003 mails wherein 10,206,970 are domestic mails and 616,033 are international mails in the year 2010 (Table 7.9).

Table 7.5. Telephone Service Providers, Province of Cavite: 2010

| Name of Company  | Number of Subscribers |
|--|-----------------------|
| Philippine Long Distance Telephone Company (PLDT)      | 80,237                |
| Digital Telecommunications Philippines, Inc. (DIGITEL) | 18,807                |
| Innove (Globetel) GEN/MARIANO                          | 77,691                |
| Bel Tel ALVAREZ  | 1,610                 |
| TOTAL  | 178,345               |

Source: National Telecommunications Commission, Region IV, Batangas City

Table 7.6. Cellular Mobile Telephone System (CMTS) Providers, Province of Cavite: 2010

| Name of Company             | Number of Cell sites |
|-----------------------------|----------------------|
| Smart Communications, Inc.  | 189                  |
| Globe Telecom, Inc.         | 178                  |
| Digitel Mobile Phils., Inc. | 109                  |
| GRAND TOTAL                 | 476                  |

Source: National Telecommunications Commission, Region IV, Batangas City

Table 7.7. Operating Radio Stations, Province of Cavite: 2010

| Operating Agency                             | Location  |   |           |  |  |  |  |
|--|---|---|-----------|--|--|--|--|
| Operating Agency                             | Transmitter   | Studio  | Call-Sign |  |  |  |  |
| I. AM BROADCASTING Delta Broadcasting System | Manila-Cavite Road, San Rafael III, Noveleta          | 118 Amorsolo St., Legaspi Village, Makati City        | DWXI - AM |  |  |  |  |
| II. FM BROADCASTING De La Salle University   | JFH Building, DLSU Campus, City of Dasmarinas, Cavite | JFH Building, DLSU Campus, City of Dasmarinas, Cavite | DWSU - FM |  |  |  |  |

Source: National Telecommunications Commission, Region IV, Batangas City

Table 7.8. Cable TV Service Providers, Province of Cavite: 2010

| Name of Company                     | Office Address   | Service Area                            |
|-------------------------------------|--|---|
| Amadeo Cable TV (Infoland Cable TV) | 3rd Floor Ambagan Bldg., A Mabini Street, Amadeo                     | Amadeo, Cavite                          |
| Bacoor Cable TV (Cablelink)         | Unit 3 De Castro Bldg., Aguinaldo Highway, Palico I, Imus            | Bacoor, Cavite                          |
| Central CATV (SkyCable)             | Km. 23 Tabon, Kawit  | Bacoor, Cavite                          |
| Planet Cable, Inc.                  | B18 L10 Hummingbird St., Springville East Ph1, Molino, Bacoor        | Bacoor, Imus, and Gen. Trias, Cavite    |
| HM CATV, Inc.                       | 566 J.M. Loyola St., Mabuhay, Carmona                                | Carmona, Cavite                         |
| Dasca Cable Services                | D. Mangubat St., City of Dasmariñas                                  | City of Dasmariñas, Cavite              |
| Met Cable Circuit Network Corp.     | B2L16 Congressional Road, San Gabriel, Gen. M. Alvarez               | Gen. M. Alvarez, Cavite                 |
| Gen. Trias Cable Network, Inc.      | Sunshine Village, Manggahan, Gen. Trias                              | Gen. Trias, Cavite                      |
| mus Cable TV (Cablelink)            | Unit 3 De Castro Bldg., Aguinaldo Highway, Palico I, Imus            | Imus, Cavite                            |
| Suburban Cable Network, Inc.        | Km. 23 Tabon, Kawit  | Imus, Cavite                            |
| Cavite Cable Corp. (SkyCable)       | Km. 23 Tabon, Kawit  | Kawit, Noveleta, Gen. Trias, Bacoor,    |
|                                     |  | Rosario, Tanza, Silang and Cavite City  |
| Mendez Cable TV, Inc.               | 48 J.P. Rizal St., Mendez  | Mendez, Cavite                          |
| Naic Cable TV Corp.                 | A. Soriano Highway, Ibayo Silangan, Naic                             | Naic, Cavite MAR                        |
| Northstar Cable TV, Inc.            | 2nd Floor MCM Bldg., Gov. Drive, Old Bulihan, Silang                 | Old Bulihan, Silang Cavite              |
| Coast Cable TV, Inc. (SkyCable)     | Km. 23 Tabon, Kawit  | Rosario, Cavite                         |
| A & L Cable TV System               | J.P. Rizal Street, Silang  | Silang, Cavite                          |
| Tagaytay Cable TV                   | Unit 104 FGC Bldg., Aguinaldo Highway, Maharlika East, Tagaytay City | Tagaytay City                           |
| Plus Cable Network, Inc.            | 24 Doña Rosario Adriatico cor. Fullon St., Ph 2C Bahayang Pag-asa    | within Bahayang Pag-asa Subd., Imus and |
|                                     | Subd., Molino, Bacoor  | Bacoor, Cavite                          |
| Dynna Cable Services                | B25 L20 Ph1 Rome St., Golden City Subd., Imus                        | within Golden City Subd., Imus, Cavite  |

Source: National Telecommunications Commission, Region IV, Batangas City

Table 7.9. Number of Post Offices and Volume of Mails Handled by City/Municipality, Province of Cavite: 2010

|    | Table 7.5. Number of                          | Number of       | Volume of      | , , , , , , | Domestic Mails |            | In      | nternational Mail | S       |
|----|---|-----------------|----------------|-------------|----------------|------------|---------|-------------------|---------|
| e  | City/Municipality                             | Post<br>Offices | Mails Handled  | Posted      | Delivered      | Total      | Posted  | Delivered         | Total   |
|    | District I                                    | 5               | 1,256,743      | 218,237     | 908,124        | 1,126,361  | 36,503  | 93,879            | 130,382 |
|    | Cavite City                                   | 1               | 288,442        | 69,150      | 172,097        | 241,247    | 18,021  | 29,174            | 47,195  |
|    | Kawit 🔍                                       | 1               | 306,449        | 79,499      | 205,983        | 285,482    | 2,846   | 18,121            | 20,967  |
|    | Noveleta                                      | 1               | 138,798        | 12,906      | 115,023        | 127,929    | 3,664   | 7,205             | 10,869  |
| KJ | Rosario                                       | 2               | 523,054        | 56,682      | 415,021        | 471,703    | 11,972  | 39,379            | 51,351  |
|    | District II                                   | 3               | 1,294,356      | 116,553     | 1,133,842      | 1,250,395  | 13,292  | 30,669            | 43,961  |
|    | Bacoor  | 3               | 1,294,356      | 116,553     | 1,133,842      | 1,250,395  | 13,292  | 30,669            | 43,961  |
|    | District III                                  | 2               | 1,589,669      | 346,918     | 1,152,724      | 1,499,642  | 55,737  | 34,290            | 90,027  |
|    | Imus  | 2               | 1,589,669      | 346,918     | 1,152,724      | 1,499,642  | 55,737  | 34,290            | 90,027  |
|    | District IV                                   | 5               | 1,617,032      | 185,688     | 1,350,041      | 1,535,729  | 46,384  | 34,919            | 81,303  |
|    | City of Dasmariñas                            | 5               | 1,617,032      | 185,688     | 1,350,041      | 1,535,729  | 46,384  | 34,919            | 81,303  |
| A  | District V                                    | 5               | 1,370,003      | 159,415     | 1,151,232      | 1,310,647  | 27,795  | 31,561            | 59,356  |
|    | Carmona                                       | 1               | 145,963        | 27,800      | 107,783        | 135,583    | 4,515   | 5,865             | 10,380  |
|    | Gen. M. Alvarez                               | 2               | 356,568        | 61,485      | 277,417        | 338,902    | 9,389   | 8,277             | 17,666  |
|    | Silang  | 2               | 867,472        | 70,130      | 766,032        | 836,162    | 13,891  | 17,419            | 31,310  |
|    | District VI                                   | 5               | 1,980,098      | 205,638     | 1,710,055      | 1,915,693  | 13,393  | 51,012            | 64,405  |
|    | Trece Martires City                           | / 1c            | ARMONA 396,521 | 113,232     | 274,657        | 387,889    | 4,459   | 4,173             | 8,632   |
|    |   | IARIANO 1       | 31,191         | 1,040       | 27,296         | 28,336     | 237     | 2,618             | 2,855   |
|    | Gen. Trias                                    | 2               | 1,044,783      | 36,689      | 973,010        | 1,009,699  | 5,210   | 29,874            | 35,084  |
|    | Tanza   | 1/              | 507,603        | 54,677      | 435,092        | 489,769    | 3,487   | 14,347            | 17,834  |
|    | District VII                                  | 9               | 1,715,102      | 277,183     | 1,291,320      | 1,568,503  | 31,725  | 114,874           | 146,599 |
|    | Tagaytay City                                 | /1              | 476,699        | 162,545     | 276,371        | 438,916    | 18,649  | 19,134            | 37,783  |
|    | Alfonso                                       |                 | 67,431         | 5,818       | 55,093         | 60,911     | 1,270   | 5,250             | 6,520   |
|    | Gen. Aguinaldo                                | 1               | 19,050         | 1,100       | 17,259         | 18,359     | 118     | 573               | 691     |
| _  | Indang  | 1               | 239,736        | 4,442       | 222,268        | 226,710    | 1,622   | 11,404            | 13,026  |
|    | Magallanes SILANG                             | 1               | 88,343         | 4,292       | 73,152         | 77,444     | 1,157   | 9,742             | 10,899  |
|    | Maragondon                                    | 1               | 117,782        | 11,608      | 69,891         | 81,499     | 2,370   | 33,913            | 36,283  |
| 1  | Mendez  | 1               | 135,856        | 10,632      | 119,657        | 130,289    | 1,717   | 3,850             | 5,567   |
|    | Naic  | 1               | 538,481        | 72,973      | 432,870        | 505,843    | 3,735   | 28,903            | 32,638  |
|    | Ternate                                       | / 1             | 31,724         | 3,773       | 24,759         | 28,532     | 1,087   | 2,105             | 3,192   |
|    | GRAND TOTAL Source Philippine Postal Corporat | 34              | 10,823,003     | 1,509,632   | 8,697,338      | 10,206,970 | 224,829 | 391,204           | 616,033 |

Source Philippine Postal Corporation, San Pablo City, Laguna

## **POWER**

The electric power of the entire province of Cavite is being supplied by the National Power Corporation (NPC) through the Manila Electric Company (MERALCO). All towns down to all barangays of Cavite have access to electric power supplied by MERALCO, thus giving the province's energization rate to 100 percent.

Table 7.10 shows the total number of connections in Cavite totalling to 645,519. These are categorized as residential having 93.20percent of the total connections or 605,323, commercial with 42,981 connections, industrial registering 565 connections and streetlight having 651 connections. Of the seven districts, District IV has the largest number of customer count with 127,900 connections followed by District VI with 121,860 connections. Districts VII and I have the least number with 74,488 customer count and 64,278 connections respectively. Total number of customers increased by 3.6% from 2009 to 2010.

Table 7.10. Customer Count and Annual Electricity Consumption by City/Municipality, Province of Cavite: 2010

| City/Municipality   |             | Cust       | omer Count |             |         |               | Elect       | ricity Consumption | (kWh)       |               |   |
|---------------------|-------------|------------|------------|-------------|---------|---------------|-------------|--------------------|-------------|---------------|---|
| City/iviumcipanty   | Residential | Commercial | Industrial | Streetlight | Total   | Residential   | Commercial  | Industrial         | Streetlight | Total         |   |
| District I          | 58,345      | 5,887      | 18         | 28          | 64,278  | 104,343,125   | 72,390,280  | 5,685,085          | 1,119,607   | 183,538,097   | B |
| Cavite City         | 18,252      | 1,950      | 4          | 1           | 20,208  | 34,531,623    | 27,576,085  | 72,117             | 781,380     | 62,961,205    | ľ |
| Kawit               | 14,722      | 1,561      | 8          | 15          | 16,306  | 27,890,675    | 15,193,195  | 122,745            | 184,452     | 43,391,067    | N |
| Noveleta            | 9,309       | 894        | 1          | 8           | 10,212  | 16,535,313    | 7,618,026   | 18,880             | 103,555     | 24,275,774    |   |
| Rosario             | 16,061      | 1,482      | 5          | 4           | 17,552  | 25,385,514    | 22,002,973  | 5,471,343          | 50,220      | 52,910,050    | A |
| District II         | 91,510      | 6,282      | 45         | 130         | 97,967  | 216,889,586   | 110,159,272 | 9,636,448          | 1,947,609   | 338,632,916   |   |
| Bacoor              | 91,510      | 6,282      | 45         | 130         | 97,967  | 216,889,586   | 110,159,272 | 9,636,448          | 1,947,609   | 338,632,916   |   |
| District III        | 77,595      | 5,237      | 49         | 65          | 82,947  | 156,104,826   | 71,442,188  | 79,655,500         | 1,009,788   | 308,212,302   |   |
| Imus                | 77,595      | 5,237      | 49         | 65          | 82,947  | 156,104,826   | 71,442,188  | 79,655,500         | 1,009,788   | 308,212,302   |   |
| District IV         | 120,014     | 7,650      | 123        | 112         | 127,900 | 181,155,295   | 129,781,914 | 156,041,259        | 2,049,091   | 469,027,560   |   |
| City of Dasmariñas  | 120,014     | 7,650      | 123        | 112         | 127,900 | 181,155,295   | 129,781,914 | 156,041,259        | 2,049,091   | 469,027,560   |   |
| District V          | 74,237      | 5,520      | 233        | 90          | 80,080  | 106,097,699   | 77,383,259  | 259,409,601        | 1,402,177   | 444,292,735   | 1 |
| Carmona             | 15,239      | 1,496      | 158        | 39          | 16,932  | 23,919,583    | 26,345,804  | 214,082,931        | 657,949     | 265,006,267   |   |
| Gen. M. Alvarez     | 21,428      | 1,267      | 9          | 13          | 22,717  | 30,768,320    | 13,784,300_ | 985,612            | 194,391     | 45,732,623    |   |
| Silang              | 37,570      | 2,757      | 66         | 37          | 40,430  | 51,409,796    | 37,253,154  | 44,341,058         | 549,837     | 133,553,846   |   |
| District VI         | 115,382     | 6,276      | 90         | 113         | 121,860 | 153,349,297   | 69,134,823  | 337,459,667        | 1,519,456   | 561,463,243   | E |
| Trece Martires City | 22,152      | 1,205      | 30         | 17          | 23,403  | 25,948,536    | 17,570,468  | 44,433,587         | 255,437     | 88,208,028    |   |
| Amadeo              | 5,850       | 345        |            | 2           | 6,198   | 6,795,630     | 2,829,997   | 1                  | 3,674       | 9,629,301     |   |
| General Trias       | 52,608      | 2,317      | 50         | 50          | 55,025  | 70,255,308    | 33,239,711  | 291,446,282        | 857,030     | 395,798,331   |   |
| Tanza               | 34,773      | 2,409      | 10         | 43          | 37,235  | 50,349,823    | 15,494,646  | 1,579,798          | 403,315     | 67,827,582    |   |
| District VII        | 68,240      | 6,128      | 7          | 113         | 74,488  | 86,529,890    | 94,266,008  | 16,610,614         | 1,466,835   | 198,873,347   |   |
| Tagaytay City       | 11,750      | 1,775      |            | 61          | 13,586  | 17,114,621    | 56,631,169  |                    | 979,761     | 74,725,551    |   |
| Alfonso             | 9,165       | 937        | 2          | 8           | 10,113  | 10,181,556    | 6,483,105   | 145,960            | 107,632     | 16,918,253    |   |
| Gen. Aguinaldo      | 2,925       | 163        | 1          |             | 3,089   | 3,131,951     | 894,718     | 130,846            |             | 4,157,515     |   |
| Indang              | 11,312      | 783        | 2          | 6           | 12,103  | 13,734,267    | 8,127,662   | 508,960            | 42,212      | 22,413,102    |   |
| Magallanes          | 2,886       | 195        |            | 3           | 3,084   | 2,627,769     | 1,051,640   |                    | 61,020      | 3,740,429     |   |
| Maragondon          | 5,303       | 454        |            |             | 5,757   | 6,965,766     | 2,285,735   |                    |             | 9,251,500     |   |
| Mendez              | 5,451       | 371        |            | 7           | 5,829   | 6,222,941     | 2,772,967   |                    | 18,315      | 9,014,223     |   |
| Naic                | 16,493      | 1,294      | 2          | 25          | 17,814  | 22,522,365    | 13,203,256  | 15,824,848         | 221,715     | 51,772,184    |   |
| Ternate             | 2,955       | 157        |            | 2           | 3,114   | 4,028,654     | 2,815,756   |                    | 36,180      | 6,880,590     | 8 |
| GRANDTOTAL          | 605,323     | 42,981     | 565        | 651         | 649,519 | 1,004,469,719 | 624,557,744 | 864,498,174        | 10,514,563  | 2,504,040,200 |   |
| 2009                | 584,464     | 41,312     | 559        | 634         | 626,969 | 924,141,476   | 574,440,506 | 725,058,588        | 10,165,351  | 2,233,805,921 |   |

Source: MERALCO, Pasig City

# Socio Economic and Physical Profile 2010

## WATER SUPPLY

BACOOR

Generally, the entire province of Cavite has access to clean and safe water. The provision of water is being shared by the public and private service agencies. Maynilad Water Services, Incorporated serve the municipalities of Noveleta, Imus, Bacoor, Kawit, Rosario and Cavite City. Water Districts under Local Water Utilities Administration (LWUA) supply the municipalities of Mendez, Indang, Silang, Gen. Mariano Alvarez, Maragondon, Tanza, Carmona, Amadeo, Gen. Aguinaldo, and the cities of Dasmariñas, Tagaytay and Trece Martires. Likewise, there are private corporations operating as water service providers in the province like General Trias Water Corporation in 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 7.11). Commonly, barangays which are not reached by the services of the previously mentioned agencies have their own barangay waterworks and sanitation associations (BWSAs). Moreover, there are subdivisions in Cavite that have their own water systems.

Table 7.11. Water Supply Service Coverage, Province of Cavite: 2010

|   |   |             |            | Nur                               | mber of Custo | mers Served  |            |        |         |
|---|---|-------------|------------|-----------------------------------|---------------|--------------|------------|--------|---------|
|   | Water Agency  | Residential | Commercial | Semi-Business/<br>Semi-Commercial | Industrial    | Block Faucet | Government | Others | Total   |
|   | Alfonso Waterworks Office                             | 1,060       | 39         |                                   |               |              | 6          |        | 1,105   |
|   | Amadeo Water District                                 | 4,526       | 51         |                                   |               |              |            |        | 4,577   |
|   | Carmona Water District                                | 8,447       | 164        |                                   | 7             |              | 39         |        | 8,657   |
|   | Dasmariñas Water District                             | 89,826      | 771        | 12,484                            |               | 418          | 194        |        | 103,693 |
|   | Gen. Aguinaldo Water District                         | 1,974       | 82         | 114                               |               |              |            |        | 2,170   |
|   | General Mariano Alvarez Water District                | 10,946      | 182        | 455                               |               |              | 29         |        | 11,612  |
|   | Indang Water District                                 | 4,692       | 80         | 200                               |               |              |            |        | 4,972   |
|   | Magallanes Waterworks Office CARMONA                  | 2,021       | 29         |                                   |               |              | 31         |        | 2,081   |
|   | Maragondon Water District MARIANO                     | 2,783       | 180        |                                   |               |              | 25         |        | 2,988   |
|   | Maynilad Water Services, Inc.                         | 59,953      | 1,980      | 2,728                             | 145           |              |            |        | 64,806  |
|   | Mendez Water District                                 | 3,692       | 115        |                                   |               |              |            |        | 3,807   |
| 1 | Naic Water Supply Corp.                               | 4,169       |            |                                   |               |              | 26         |        | 4,195   |
| 1 | Silang Water District                                 | 26,764      | 747        | 378                               |               |              | 94         |        | 27,983  |
| 1 | Tagaytay City Water District                          | 10,334      | 826        |                                   |               |              | 90         | 59     | 11,309  |
| ) | Tanza Water District                                  | 8,462       | 470        |                                   |               |              | 30         |        | 8,962   |
| - | Western Cavite Water Supply & Services Corp., Ternate | 930         |            |                                   |               |              |            |        | 930     |
|   | Trece Martires City Water District                    | 13,126      | 324        |                                   |               |              | 94         |        | 13,544  |
| 1 | GRAND TOTAL   | 253,705     | 6,040      | 16,359                            | 152           | 418          | 658        | 59     | 277,391 |

Source: Water Districts, Maynilad & Waterworks' Offices, Cavite

.

#### **IRRIGATION**

As mentioned in the earlier part of this profile, the province is pre-dominantly an agriculture province where different agriculture activities thrive. The water source to these agriculture lands is provided through different irrigation systems. The National Irrigation Administration (NIA) was created under Presidential Decree No. 552 and Cavite Friar Lands Irrigation System (CFLIS) became one of the irrigation yystems being managed by NIA. Municipalities served by CFLIS with firmed up-service area (FUSA) of 8,618.0851 hectares are Ternate, Maragondon, Naic, Tanza, Gen. Trias, Imus, Bacoor, Noveleta, Rosario, Kawit and the City of Dasmariñas (Table 7.12). Moreover, the municipalities which are being served by the Cavite Provincial Irrigation Office/Communal Irrigation Systems include Ternate, Maragondon, Gen. M. Alvarez and Carmona (Table 7.13). Records also indicate that the major irrigation facilities in the system are consist of diversion dams, minor dams, reservoirs and conveyance canals including appurtenant structures (Table 7.14).

Table 7.12. City/Municipalities Served by Cavite Friar Lands Irrigation System (CFLIS)

| Province of Cavite: | 2010                         |
|---------------------|------------------------------|
| City/Municipality   | Firmed Up Service Area (Has) |
| District I          | 196.90                       |
| Noveleta            | 38.60                        |
| Rosario             | 29.80                        |
| Kawit               | 128.50                       |
| District II         | 83.8471                      |
| Bacoor              | 83.8471                      |
| District III        | 1,133.1894                   |
| Imus                | 1,133.1894                   |
| District IV         | 468.4436                     |
| City of Dasmariñas  | 468.4436                     |
| District VI         | 4,126.0856                   |
| Tanza               | 1,747.7540                   |
| Gen. Trias          | 2,378.3316                   |
| District VII        | 2,609.6194                   |
| Ternate             | 39.8500                      |
| Maragondon          | 574.9552                     |
| Naic                | 1,994.8142                   |
| GRAND TOTAL         | 8,618.0851                   |

Source: National Irrigation Administration, Naic

Table 7.13. Municipalities Served by Cavite Provincial Irrigation Office/
Communal Irrigation Systems, Province of Cavite: 2010

| Municipality    | Firmed Up Service Area (Has) |
|-----------------|------------------------------|
| District V      | 282.0000                     |
| Gen. M. Alvarez | 50.0000                      |
| Carmona         | 232.0000                     |
| District VII    | 148.6250                     |
| Ternate         | 48.6250                      |
| Maragondon      | 100.0000                     |
| GRAND TOTAL     | 430.6250                     |

Source: National Irrigation Administration, Naic

Table 7.14. Number of Irrigation Facilities, Province of Cavite: 2010

| Table 7.14. Number of frigation racinties, Province of Cavite. 2010 |               |
|---|---------------|
| Irrigation Facility   | Number        |
| Diversion Dams  | 18            |
| Minor Dams  | 69            |
| Naic  | 11            |
| Tanza   | 12            |
| Gen. Trias  | 20            |
| Imus  | 26 / MAGALLAI |
| Reservoirs  | 2             |
| Conveyance Canal  |               |
| NIA Road  |               |
| Source: National Irrigation Administration                          | ion Maio      |

Source: National Irrigation Administration, Naic

ROSARIO