

NOTE TO FILE

To: S. Adrian Ross
Acting Executive Director

From: Daisy Padayao
Robert Jara

Date: 31 October 2012

Subject: Manila Bay IIMS Integration Workshop, August 22-24 and September 25-27, 2012, PEMSEA Office, Quezon City

1. A two-stage integration workshop was conducted on August 22-24 and September 25-27, 2012 at the PEMSEA Office Bldg to establish an integrated IIMS database for the Manila Bay watershed, including the 3 DENR SMOs (Regions 3, 4a and NCR) and two ICM sites (Bataan and Cavite) in the area. The list of participants for the integration workshop is given in Annex 1.

2. The objectives for the two-stage integration workshops are as follows.

i. Workshop 1 (August 22-24)

- To conduct the integration workshop for the Manila Bay IIMS, particularly focusing on
 - Assigning unique record numbers (geocode) for each table of the IIMS, and
 - Reclassifying the records based on the new values of the dropdown menus.
- Develop a work plan and agree on the timetable for the integration of the databases of the 3 SMOs and 2 provinces in addition to the old Manila Bay database.

ii. Workshop 2 (September 25-27)

- To establish an integrated Manila Bay IIMS databases, with server located at the PRF, particularly focusing on:
 - Importing of renumbered and adjusted records into the IIMS server;
 - Resolving any issues on redundancy; and
- Action plan on the maintenance and updating of the IIMS databases in the Manila Bay area regions

3. The detailed workshop programme for the integration of the IIMS database for the Manila Bay watershed is given in Annexes 2 and 3.

4. Some of the observed areas of difficulties in establishing the integrated database for the Manila Bay watershed are as follows.

- Renumbering of records. In order to assign unique record numbers for each of the data entries in the IIMS and to facilitate integration of the separate IIMS databases for Manila Bay, a standard numbering of record is designed following the Philippine Geographic Codes. The geocodes provide a unique coding for each of the barangays, municipalities and provinces in the Philippines. Although the numbering

is not difficult, it is tedious and participant should be familiar with the new coding system, including table linkages. The guide for numbering records and the establishment of integrated database for the Manila Bay watershed is given in Annex 4.

- Reclassification of industries and commercial establishments. The current IIMS version for the Philippines follows the Philippine Standard Industry Classification (PSIC), which is a detailed classification of industries and establishments compared to the International Standard Industry Classification, which was adopted in the previous IIMS version. The difficulty encountered by the participants was that some of the entries had general classifications, and participants need to review their original data (e.g., Bataan) to determine the specific classifications of data records. For the case of NCR, they have almost 10,000 data records for industries that need to be reclassified.

5. The process of renumbering data records for each of the data category in the IIMS was discussed and it was agreed that participants will continue the process of renumbering the data encoded in their current IIMS database, until all records have been renumbered and imported into the IIMS server.

6. The importing of data into the IIMS server was conducted one month after the first workshop to allow the participants to renumber their respective data records.

7. The importing of data records into the IIMS server was done per region (Annex 3) using the import facility of the IIMS connected through a Local Area Network. All renumbered records have been imported into the IIMS server. The counts of data records imported in the IIMS server are given in Annex 5.

8. Not all data of the regions and ICM sites in Manila Bay have been renumbered and imported into the IIMS server. Some renumbered records had been forwarded to the regions for review due to duplication errors. The regions still need to work on the reclassification of the commercial establishments (e.g., Bataan, Regions 3 and 4a), renumbering of pollution sources data (NCR) and review of record numbering (Region 4a).

Action: The TA for Project Development will follow up with the DENR regions and ICM sites for the completion of the remaining records for renumbering, classification and importing into the IIMS server.

Annex 1. List of participants

DENR-Region 3

Cyrel Lachica
Apollo Ceredo

Bataan

Karen Balbuena
Miguela Ramirez

DENR-Region 4A

Amelia Abecina
O'Sonnel Moises Tudda

Cavite

Rachel Pereña
Maricris Rodeo

DENR-NCR

Reina Cueto
William Decielo

PEMSEA

Bresilda Gervacio
Robert Jara
Daisy Padayao

Annex 2.

Workshops on the Integration of the Manila Bay Area IIMS Database

Introduction

There are five separate IIMS databases within the Manila Bay Area that have been established and maintained by the three Site Management Offices at the three regional offices of DENR and two ICM sites in Bataan and Cavite. At the moment, access of these databases requires going through each of the sites' databases, which requires more time and effort as compared if they are integrated into a single database. The redundancies and inconsistencies, if any, of these databases have not resolved. In order to make these databases accessible and useful for the whole Manila Bay Area, integration of the five databases is necessary.

The workshop aims to integrate the five databases into a single Manila Bay area database. Specifically, it will aim the following:

- 1) renumber the records of each of the five databases to ensure consistencies and reduce redundancies of the records when they are integrated into one database;
- 2) integrate the old database that was developed from 2002 to 2007 into the existing databases of the sites;
- 3) set-up an IIMS server at PRF where the integrated database will be stored and maintained; and
- 2) identify areas of difficulties and possible solutions, if any, in maintaining the database resulting from the integration process

Participant

The participants of the workshop will be those who have been developing and maintaining the various IIMS database from each site. There will be two participants from each regional offices and ICM site.

Approach

The workshop will be undertaken in two stages. The first one will be a three-day workshop, which aim to renumber and adjust of the records of the existing and old databases. The second workshop will be the setting-up of an IIMS server at the PRF and integrating all the five databases into the server. The second workshop will entail each of the sites to work for a day at PRF in order to import data into the server and resolve redundancy issues, if any.

The specific approaches of renumbering and integration will be provided to the participants.

Output

The outputs of the workshops will be:

- 1) Renumbered records of the IIMS databases of the sites (existing and old); and
- 2) Integrated IIMS database established at PRF.

Materials needed

The materials needed are as follows:

First workshop

IIMS database of each of the sites
IIMS old database
IIMS software (adjusted for Manila Bay/Philippines)

LCD project
Notebook for the LCD projector
PC and printer
Notebooks/PCs (each site is required to bring own notebook). If possible each of the participants shall have one notebook or PC each.

Second workshop

IIMS server set-up and tested prior to Workshop 2
Renumbered database
LCD projector and notebook
Notebooks/PC from the sites

Schedule

Workshop 1

Time	Activities	Outputs
Day 1		
8:00-9:00	Arrival of participants Setting up of computers	
9:00-9:30	Opening/Introduction	
9:30-11:00	Region/Site data	Renumbered records of province, municipalities, cities, watersheds, bodies of water, geospatial data and maps
11:00-12:00	Biological data	Renumbered records on fish resources, wetlands, seaweeds, seagrass, phytoplankton and zooplankton, forest resources. Redundant data resolved (e.g., species)
12:00-1:00	Lunch break	
1:00-2:00	Biological data (cont)	
2:00-5:00	Socioeconomic data	Renumbered records on all the socioeconomic data, including reclassification of industries, commercial, mining and institutional

		establishments
5:00-7:00	Verification of the renumbered records	Verified renumbered records. Sites will verify other sites output
Day 2		
8:00-10:00	Institutional data	Renumbered and reclassified records on government, plans and other sectors
10:00-12:00	Pollution sources	Renumbered and reclassified records, including reclassification of hazardous and solid wastes
12:00-1:00	Lunch	
1:00-1:30	Water resources	Renumbered records on distributions, sources, and facilities concerning water resources
1:30-3:30	Monitoring data	Renumbered records
3:30-5:00	Physiographic, hazards and natural and cultural heritage	Renumbered records
5:00-7:00	Verification of renumbered data	Verified database
Day 3		
8:00-12:00	Working on the old database	Renumbered and adjusted records from old database
12:00-1:00	Lunch	
1:00-4:30	Verification of renumbered records from old database	Verified records
4:30-5:00	Wrap up	

Note: All renumbered and adjusted records will be submitted in text delimited (.csv) format.

Workshop 2

Day/Time	Activities	Outputs
Day 1-Region 3 and Bataan	Importing of renumbered and adjusted records into the IIMS server; verifying data imported by PRF	Data from Region 3 and Bataan imported into the IIMS server
Day 2-NCR	Importing of renumbered and adjusted records into the IIMS server; resolving issues on redundancy, if any; verifying data imported by PRF	Data from NCR imported into the IIMS server; redundant records resolved
Day 3-Region 4 and Cavite	Importing of renumbered and adjusted records into the IIMS server; resolving issues on redundancy, if any; verifying data imported by PRF	Integrated IIMS database for Manila Bay area, redundant records resolve

Annex 3.

Workshop on the Integration of Manila Bay Area IIMS Databases 25-27 September 2012, PEMSEA Office Bldg.

Programme

Objectives:			
1. To establish an integrated Manila Bay IIMS databases, with server located at the PRF, particularly focusing on: <ol style="list-style-type: none"> a. Importing of renumbered and adjusted records into the IIMS server; and b. Resolving any issues on redundancy; and 2. Action plan on the maintenance and updating of the IIMS databases in the Manila Bay area regions			
Day / Time	Activities	Outputs	Participants
Sept. 25 / 800-1700	Importing of renumbered and adjusted records into the IIMS server; verifying data imported by PRF	<ul style="list-style-type: none"> • Data from Region 3 and Bataan imported into the IIMS server • Redundant records resolved 	DENR Region 3 <ul style="list-style-type: none"> • Ms. Cyrel Lachica • Mr. Apollo Cerudo Bataan ICM site • Ms. Karen Balbuena Bataan PENRO • Ms. Miguela Ramirez PEMSEA • Ms. Bresilda Gervacio • Mr. Robert Jara • Ms. Daisy Padayao
Sept. 26 / 800-1700	Importing of renumbered and adjusted records into the IIMS server; verifying data imported by PRF	<ul style="list-style-type: none"> • Data from Region 4a and Cavite imported into the IIMS server; • Redundant records resolved 	DENR Region 4a <ul style="list-style-type: none"> • Ms. Amelia Abecina • Mr. O'Sonnell Moises Tudda Cavite ICM site • Ms. Rachel Pereña • Ms. Maricris Rodeo PEMSEA • Ms. Bresilda Gervacio • Mr. Robert Jara • Ms. Daisy Padayao
Sept. 26 / 800-1700	Importing of renumbered and adjusted records into the IIMS server; verifying data imported by PRF	<ul style="list-style-type: none"> • Data from NCR imported into the IIMS server • Integrated IIMS database established for Manila Bay area • Redundant records resolved 	DENR NCR <ul style="list-style-type: none"> • Ms. Reina Cueto • Mr. William Decielo PEMSEA • Ms. Bresilda Gervacio • Mr. Robert Jara • Ms. Daisy Padayao

Annex 4

GUIDE TO THE INTEGRATION OF MANILA BAY AREA IIMS DATABASE

Integrating the five databases from the three SMOs and two ICM sites, and the old Manila Bay database entails setting of common dropdown menus, data aggregation, and assigning unique record numbers for each table.

Assigning unique record numbers

In order to avoid duplication of values and committing key violation errors when integrating the databases, there is a need to assign unique values for each record in each table. For provinces, municipalities and barangays, it was agreed during the workshop in September 2011 that the geocode (see Geocode in CD) will be used as record numbers. Numbers of the records in other tables should also follow that system.

The geocode consists of the following:

- First 2 digits (including zero) – region
- Next 2 digits- province/district for NCR
- Next 2 digits – municipality/city
- Next 3-digits -barangay

If the data aggregation is at the barangay level like census, the record number is :Geocode + record no. Record number may start at 1.

Example: Record number of census in Barangay 1, Caloocan

- First record – 137501001+1>> 1375010011
- Second record – 137501001+2>> 1375010012
- 10th record – 137501001+10>> 13750100110
- 100th record – 137501001+100>> 137501001100

This means that consecutive numbering of records starts after the barangay geocode.

If the data aggregation is at the municipal level, the record number would be the first six digits of geocode of the municipality+ record number.

Example: 137501 +1

- 1st – 137501+1>> 1375011
- 2nd record – 137501+2>> 1375012
- 3rd record – 137501+3>> 1375013
- 10th record – 137501+10>> 13750110
- 100th record- 137501>> 137501100

Consecutive numbering of records starts after the first six digits of the geocode.

If the data aggregation is at provincial level, the record number would be first 4 digits of the geocode+ record number.

Example: Record number of poverty incidence of Bataan

- 1st record – 0308+1>>03081 or 3081
- 2nd record – 0308+2>>03082 or 3082

- 10th record- 0308+10>>030810 or 30810
- 100th record-0308+100>>0308100 Or 308100

For subwatershed and bodies of water, follow the provincial numbering.

Example:

Watershed: Pampanga River Basin
 Subwatershed: Gumain River Basin: 0354+1>>3451
 Pampanga River: 0354+1>>3451.

Please do not be confused by the same record numbers of Gumain River Basin and Pampanga River to cause key violation error because these two records would not be encoded on the same table.

For Manila Bay, assign a record number following the region code, which is 13 + record: 13+1>>201

If the data aggregation is at site level, use the same system as that of the province. This will facilitate integration and avoid confusion as to the linkages of data of a certain table to its parent table.

Biological data

Most of the species in the database of the regions are common in each region. In order to avoid key violation error, we use only one numbering system. The species shall be numbered consecutively using the scientific name in alphabetical order regardless of region. The numbering shall follow site number for Philippines which starts at 200001:

Example:

- 1st record: 20000+1=200001
- 2nd record: 20000+2=200002
- 10th record: 20000+10=200010
- 100th record: 20000+100=200100

If adding a new species, check first if that species has been encoded into the database by other regions. The list of renumbered species for fish, aquaculture species, mangrove, forest, flora and fauna are contained in CD.

Governance data

Government agencies

For national government, the agencies shall be numbered consecutively starting with 200001. The local government agencies shall be numbered based on the geocode of the province, municipality/city and barangay concerned.

Examples:

Pampanga

- 1st record: 0354+1>>3541
- 2nd record: 0354+2>>3542

- 10th record: 0354=35410
- 100TH record=3454100

Lubao, Pampanga

- 1st record: 035408+1>>354081
- 2nd record: 035408+2>>354082
- 10th record: 035408+10>>3540810
- 100th record: 035408+100>>35408100

Balantacan, Lubao, Pampanga

- 1st record: 035408001+1>>354080011
- 2nd record: 035408001+2>>354080012
- 10th record: 035408001+10>>3540800110
- 100th record: 035408001+100>>35408001100

All records linked to the government agencies (GOVAG) shall follow the numbering of the agency.

Example:

Projects

Pampanga: 1st agency

- 1st project: 3541+1>>35411
- 2nd project: 3541+2>>35412
- 10th project: 3541+10>>35410
- 100th project: 3541+100>>354100

For coordinating mechanisms and plans, the numbering shall be based on the level of government, like the numbering for government agencies.

Sector

The numbering shall be based on the province of the office of the sector.

Example:

Pampanga

- 1st record: 0354+1>>3541
- 2nd record: 0354+2>>3542
- 10th record: 0354>>35410
- 100TH record>>354100

Water resources

Infrastructure

The numbering shall be based on the municipality/city where the infrastructure is located.

Example:

Lubao, Pampanga

- 1st infrastructure: 035408+1>>354081
- 2nd infrastructure: 035408+2>>354082
- 10th infrastructure: 035408+10>>3540810
- 100th infrastructure: 035408+100>>35408100

For water distributor, the numbering shall be based on the municipality or city of the address of the water distributor. Thus, the numbering is of the same format as that of Infrastructure.

The water user permit table is linked with water distributor. It's numbering should be based on the water distributor number.

Example:

- 1st water user: 354081+1>>3540811
- 2nd water user: 354081+2>>3540812
- 10th water user: 354081+10>>35408110
- 100th water user: 354081+100>>354081100

All other tables included in the Water Resources Category shall follow the municipality/city numbers.

Environmental Quality Monitoring Data

The record identifier for monitoring station is Station ID, there is no need for a new number. The records (WQOBS, SQOBS, TAOBS) that are linked to station shall be numbered consecutively following the number of water body.

Example: Manila Bay (13)

- 1st observation: 13+1>>131
- 2nd observation: 13+2>>132
- 10th observation: 13+10>>1310
- 100th observation: 131+100>>13100

All records linked with observation shall be numbered based on the observation number by appending the record number consecutively.

Example: 1st Observation (131)

1st record: 131+1>>1311

2nd record: 131+2>>1312

10th record: 131+10>>13110

100th record: 131+100>>131100

All records linked with Observation shall be numbered based on the observation number.

Example:

Conventional parameters for observation 1311

1st record: 1311+1>>13111

2nd record: 1311+2>>13112

10th record: 1311+10>>131110
100th record: 1311+100>>1311100

For criteria/standard, use the numbering for national values like that of species numbering for biological data basing on site number. See renumbered tables.

Example:

1st record: 200+1>>2001
2nd record: 200+2>>2002
10th record: 200+10>>20010
100th record: 200+100>>200100

For Natural and Cultural Heritage Data, base the numbering from province number.

Example: For sites within Bulacan (PROTNH and PROTCH)

1st record: 0314+1>>3141
2nd record: 0314+2>>3142
10th record: 031410>>31410
100th record: 0314+100>>314100

For tables linked with PROTNH and PROTCH, base the numbering from the record numbers of PROTNH and PROTCH.

Example: 1st record of PROTNH: 3141

1st record: 3141+ 1>>31411
2nd record: 3141+2>>31412
10th record: 3141+10>>314110
100th record: 3141+100>>3141100

Dropdown menu

Dropdown menu with values used in the Philippines have been adopted for IIMS particularly on the following:

- a) Mining establishment type for table SEMINE
- b) Industry type for table SEMINEPR
- c) Manufacturing type for table SEIND
- d) Establishment type for SECOMMES
- e) Type of service provided for SEMJRINS
- f) Waste type for POLHWSV
- g) ISIC Type for POLHW
- h) Waste type for POLSW
- i) Hazard type for HAZARDS and HAZARDAR

Existing data encoded into the abovementioned tables need to be reclassified based on the new dropdown menu. Appendix 1 can be used as a guide in reclassifying data. It bears the previous classifications based on the default dropdown values of IIMS and the corresponding new classifications. It is also important to use the raw data (unclassified and unscreened) to determine appropriate classifications of the records/data.

As renumbering of records is being undertaken, reclassifying of records based in the new dropdown menu should be done. Take note that classification not included in the dropdown values could not be displayed in the tables. Make sure that the values being encoded are consistent with the dropdown values.

Importing records into the IIMS server

All .csv files, which was renumbered and reclassified during the three-day workshop will be imported into an IIMS server set-up at PEMSEA Resource Facility. The IIMS_BLANK.GDB will be renamed into IIMS_MBA.GDB, and will be installed into the server. Each of the regions and site will be allotted a day to import their data into the server.

Once the database has been integrated, it will be provided to the SMOs and ICM sites for updating. The numbering system of records shall be followed. New data from the regions and sites shall be provided to PRF, which will maintain and update the Manila Bay Area database until such time that it will be turned over to DENR or appropriate unit.

Appendix 1: Dropdown values

Default		Values for Manila Bay/Philippines
a) SEMINE: Mining establishment type		
B 05	Mining of coal and lignite	05100 Mining of hard coal 05200 Mining of lignite
B 06	Extraction of crude petroleum and natural gas	06100 Extraction of crude petroleum 06200 Extraction of natural gas
B 07	Mining of metal ores	07100 Mining of iron ores 07210 Mining of uranium and thorium ores 07221 Gold ore mining 07222 Silver ore mining 07291 Copper ore mining 07292 Chromite ore mining 07293 Manganese ore mining 07294 Nickel ore mining
B 08	Other mining and quarrying	08101 Marble quarrying 08102 Limestone quarrying 08103 Stone quarrying, except limestone and marble 08104 Clay quarrying 08105 Sand and gravel quarrying 08106 Silica sand and silica stone quarrying 08109 Stone quarrying, clay and sand pits, n.e.c. 08911 Baryte mining 08912 Guano gathering 08913 Pyrite mining 08914 Rock phosphate mining 08915 Sulphur mining 08919 Other chemical and fertilizer mineral mining 08920 Extraction of peat 08930 Extraction of salt 08990 Other mining and quarrying, n.e.c.
B 09	Mining support service activities	09101 Oil and gas extraction activities on a fee or contract basis 09102 Oil and gas extraction activities not performed on a fee or contract basis 09900 Support activities for other mining and quarrying
b) SEMINEPR: Industry type		
B 05	Mining of coal and lignite	05100 Mining of hard coal 05200 Mining of lignite
B 06	Extraction of crude petroleum and natural gas	06100 Extraction of crude petroleum 06200 Extraction of natural gas

Default	Values for Manila Bay/Philippines
B 07 Mining of metal ores	07100 Mining of iron ores 07210 Mining of uranium and thorium ores 07221 Gold ore mining 07222 Silver ore mining 07291 Copper ore mining 07292 Chromite ore mining 07293 Manganese ore mining 07294 Nickel ore mining
B 08 Other mining and quarrying	08101 Marble quarrying 08102 Limestone quarrying 08103 Stone quarrying, except limestone and marble 08104 Clay quarrying 08105 Sand and gravel quarrying 08106 Silica sand and silica stone quarrying 08109 Stone quarrying, clay and sand pits, n.e.c. 08911 Baryte mining 08912 Guano gathering 08913 Pyrite mining 08914 Rock phosphate mining 08915 Sulphur mining 08919 Other chemical and fertilizer mineral mining 08920 Extraction of peat 08930 Extraction of salt 08990 Other mining and quarrying, n.e.c.
B 09 Mining support service activities	09101 Oil and gas extraction activities on a fee or contract basis 09102 Oil and gas extraction activities not performed on a fee or contract basis 09900 Support activities for other mining and quarrying
c) SEIND: Manufacturing	
C10 Manufacture of food products	10110 Slaughtering and meat packing 10120 Production processing and preserving of meat and meat products 10201 Canning/packing of fish and other marine products 10202 Drying of fish and other marine products 10203 Smoking of fish and other marine products 10204 Manufacture of fish paste (bagoong) and fish sauce (patis) 10205 Processing of seaweeds; manufacture of agar-agar or carageenan 10206 Production of fishmeal/prawn feeds 10207 Manufacture of unprepared animal feeds from fish, crustaceans, mollusks & other aquatic animals 10209 Processing, preserving and canning of fish, crustacean and mollusks, n.e.c. Manufacture of fishball, etc. 10301 Canning/packing and preserving of fruits and fruit juices 10302 Canning/packing and preserving of vegetables and vegetable juices 10303 Manufacture of fruit and vegetable sauces 10304 Quick-freezing of fruits and vegetables 10305 Manufacture of potato flour and meal 10306 Roasting of nut or manufacture of nut foods and pastes

Default	Values for Manila Bay/Philippines
	<p>10307 Manufacture of perishable prepared foods of fruit and vegetables, such as salad, peeled or cut vegetables, tofu</p> <p>10309 Processing and preserving of fruits and vegetables, n.e.c.</p> <p>10410 Manufacture of virgin coconut oil</p> <p>10420 Manufacture of dessicated coconut</p> <p>10430 Manufacture of nata de coco</p> <p>10440 Production of crude vegetable oil, cake and meals, other than virgin coconut oil</p> <p>10450 Manufacture of refined coconut and other vegetable oil (including corn oil) and margarine</p> <p>10460 Manufacture of fish oil and other marine animal oils</p> <p>10470 Manufacture of unprepared animal feeds from vegetable, animal oils and fats</p> <p>10490 Manufacture of vegetable and animal oil and fats, n.e.c.</p> <p>10510 Processing of fresh milk and cream</p> <p>10520 Manufacture of powdered milk (except for infants) and condensed or evaporated milk (filled, combined or reconstituted)</p> <p>10530 Manufacture of infants' powdered milk</p> <p>10540 Manufacture of butter, cheese and curd</p> <p>10550 Manufacture of ice cream and sherbet, ice drop, ice candy and other flavored ices</p> <p>10560 Manufacture of milk-based infants' and dietetic foods</p> <p>10570 Manufacture of yoghurt</p> <p>10580 Manufacture of whey</p> <p>10590 Manufacture of dairy products, n.e.c.</p> <p>10610 Rice/corn milling</p> <p>10621 Cassava flour milling</p> <p>10622 Flour milling except cassava flour milling</p> <p>10623 Manufacture of cereal breakfast foods obtained by roasting or swelling, etc.</p> <p>10624 Manufacture of unprepared animal feeds from grain milling residues</p> <p>10625 Manufacture of flour mixes and prepared blended flour and dough for bread, cakes, biscuits or pancakes</p> <p>10629 Manufacture of grain and vegetable mill products, n.e.c.</p> <p>10630 Manufacture of starches and starch products</p> <p>10711 Baking of bread, cakes, pastries, pies and similar "perishable" bakery products, including hopia and doughnut making</p> <p>10712 Baking of biscuits cookies, crackers, pretzels and similar dry bakery products</p> <p>10713 Manufacture of ice cream cones (apa) and wafers (barquillos)</p> <p>10714 Manufacture of snack products such as corn curls, wheat crunchies and similar products</p> <p>10721 Sugarcane milling</p> <p>10722 Sugar refining</p> <p>10723 Manufacture of muscovado sugar not carried on in the farm</p> <p>10724 Manufacture of molasses</p>

Default	Values for Manila Bay/Philippines
	10729 Manufacture of sugar, n.e.c. 10731 Manufacture of chocolate and cocoa products including chocolate candies 10732 Manufacture of candies (excluding chocolate candies) and chewing gum 10733 Manufacture of popcorn and poprice 10739 Manufacture of chocolate and sugar confectionery products, n.e.c. 10740 Manufacture of macaroni, noodles, couscous and similar farinaceous products 10750 Manufactured of prepared meals and dishes 10760 Manufacture of food supplements from herbs and other plants 10770 Coffee roasting and processing 10791 Manufacture of herb from drying and further extraction (e.g. banaba, ampalaya, moringa (malunggay), sambong, lagundi etc.) 10792 Manufacture of ice, except dry ice 10793 Manufacture of soup containing meat, fish, crustaceans, mollusks or pasta 10794 Manufacture of infant or dietetic foods containing homogenized ingredients 10795 Egg processing including fertilized egg (balut) and salted eggs 10796 Manufacture of flavoring extracts and food coloring 10797 Manufacture of mayonnaise, salad dressing, sandwich spread and similar products 10798 Manufacture of vinegar 10799 Manufacture of food products, n.e.c. 10800 Manufacture of prepared animal feeds
C11 Manufacture of beverages	11010 Distilling, rectifying and blending of spirits 11021 Fruit wine manufacturing 11029 Wine manufacturing, n.e.c. 11030 Manufacture of malt liquors and malt 11041 Manufacture of soft drinks except drinks flavored with fruit juices, syrups or other materials 11042 Manufacture of drinks flavored with fruit juices, syrups or other materials 11051 Manufacture of bottled water 11052 Manufacture of carbonated water 11060 Manufacture of sports and energy drink 11090 Manufacture of other beverages, n.e.c.
C12 Manufacture of tobacco products	12010 Manufacture of cigarettes 12020 Manufacture of cigars 12030 Manufacture of chewing and smoking tobacco, snuff 12040 Curing and redrying tobacco leaves 12090 Tobacco manufacturing, n.e.c.

Default	Values for Manila Bay/Philippines
C13 Manufacture of textiles	13111 Spinning of textile fibers 13112 Texturizing of textile fibers 13113 Manufacture of paper yarn 13119 Preparation of textiles, n.e.c. 13120 Weaving of textiles 13130 Finishing of textiles 13140 Preparation and finishing of textiles (integrated) 13910 Manufacture of knitted and crocheted fabrics 13921 Manufacture of textile industrial bags 13922 Manufacture of made-up textile goods for house furnishings 13923 Manufacture of canvas products 13929 Manufacture of made-up textile articles, except wearing apparel, n.e.c. 13931 Manufacture of carpets and rugs, except mats of textile materials 13932 Manufacture of mats (including mattings) of textile materials 13941 Manufacture of cordage, rope, and twine 13942 Manufacture of fishing nets and other nettings, (excluding mosquito and hairnets) 13943 Manufacture of products of cordage, rope and twine products 13950 Manufacture of embroidered fabrics 13991 Manufacture of narrow fabrics, laces, tulle and other net fabrics 13992 Manufacture of felt and non-woven fabrics 13993 Manufacture of fabrics, impregnated, coated, covered or laminated with plastic 13994 Manufacture of fabrics, impregnated, coated, covered or laminated other than with plastic and rubber 13995 Manufacture of fabrics for industrial use (wicks and gas mantles) 13996 Manufacture of fiber batting, padding and upholstery filling including coir 13999 Manufacture of miscellaneous textiles, n.e.c.
C14 Manufacture of wearing apparel	14110 Men's and boys' garment manufacturing 14120 Women's and girls' and babies' garment manufacturing 14130 Ready-made embroidered garments manufacturing; 14191 Manufacture of raincoats by cutting or sewing except rubber or plastics 14192 Manufacture of hats, gloves, handkerchiefs, neckwear and belts regardless of material 14199 Manufacture of wearing apparel, n.e.c 14210 Custom tailoring 14220 Custom dressmaking 14301 Manufacture of knitted and crocheted apparel 14302 Manufacture of knitted or crocheted hosiery, underwear and outerwear when knitted or crocheted directly into shape 14309 Manufacture of knitted and crocheted articles, n.e.c. 14400 Manufacture of articles of fur

Default	Values for Manila Bay/Philippines
<p>C15 Manufacture of leather and related products</p>	<p>15110 Tanning and dressing of leather 15121 Manufacture of luggage, handbags and wallets of leather and imitation leather 15129 Manufacture of products of leather and imitation leather, n.e.c. 15210 Manufacture of leather shoes 15220 Manufacture of rubber shoes 15230 Manufacture of plastic shoes 15240 Manufacture of shoes made of textile materials with applied soles 15250 Manufacture of wooden footwear and accessories; 15291 Manufacture of rubber slippers 15292 Manufacture of slippers and sandals, other than rubber 15293 Manufacture of leather parts of footwear 15299 Manufacture of other footwear, n.e.c.</p>
<p>C16 Manufacture of wood and of products, except furniture; manufacture of articles of straw and plaiting materials</p>	<p>16101 Manufacture of rough lumber 16102 Manufacture of worked lumber 16103 Wood preserving and drying 16109 Sawmilling and planing of wood products, n.e.c. 16211 Manufacture of veneer sheets and plywood 16212 Manufacture of laminboard, particle board and other panels and board 16220 Manufacture of wooden window and door screens, shades and venetian blinds 16230 Manufacture of other builders' carpentry and joinery; millworking 16240 Manufacture of wooden containers 16250 Manufacture of wood carvings 16260 Manufacture of charcoal outside the forest 16270 Manufacture of wooden wares 16281 Manufacture of rattan and cane containers 16282 Manufacture of sawali, nipa and split canes 16283 Manufacture of mats, matting or screen 16284 Manufacture of small cane wares 16285 Manufacture of articles of cork, straw and plaiting materials 16289 Manufacture other products of bamboo, cane, rattan and the like, and plaiting materials except furniture, n.e.c. 16290 Manufacture of other products of wood; manufacture of articles of cork and plaiting materials, except furniture, n.e.c.</p>
<p>C17 Manufacture of paper and paper products</p>	<p>17011 Integrated pulppaper and paperboard milling 17012 Pulp milling 17013 Paper and paperboard milling 17014 Manufacture of hand-made paper 17019 Manufacture of pulp, paper and paperboard, n.e.c. 17020 Manufacture of corrugated paper and paperboard and of containers of paper and paperboard 17091 Manufacture of household and personal hygiene paper and cellulose wadding products</p>

Default		Values for Manila Bay/Philippines
		17092 Manufacture of wadding of textile materials and articles of wadding (e.g. sanitary towels, tampons, etc.) 17093 Manufacture of other articles of paper 17099 Manufacture of other articles of paperboard
C18	Printing and reproduction of recorded media	18110 Printing of recorded media 18121 Electrotyping, stereotyping and photoengraving 18122 Bookbinding and related work 18129 Service activities related to printing, n.e.c. 18201 Reproduction of video and computer tapes from mastercopies 18202 Reproduction of floppy, hard or compact disks 18203 Film and video reproduction
C19	Manufacture of coke and refined petroleum products	19100 Manufacture of coke oven products 19200 Manufacture of refined petroleum products 19900 Manufacture of other fuel products
C20	Manufacture of chemicals and chemical products	20111 Manufacture of ethanol 20112 Manufacture of industrial (compressed and liquefied) gases 20113 Manufacture of inorganic salts and compounds 20114 Manufacture of ethyl alcohol 20115 Manufacture of alcohol except ethyl 20116 Manufacture of inorganic acids, alkalis and chlorine 20117 Manufacture of organic acids and organic compounds 20119 Manufacture of basic chemicals, except fertilizers and nitrogen compounds, n.e.c 20120 Manufacture of fertilizers and nitrogen compounds 20131 Manufacture of synthetic rubber and factice derived from oils, in primary forms 20132 Production of mixtures of synthetic rubber and natural rubber or rubber-like gums (e.g., balata), in primary forms 20133 Manufacture of plastic synthetic resins 20134 Manufacture of plastic materials except man-made fiber and glass fiber 20210 Manufacture of pesticides and other agro-chemical products 20221 Manufacture of paints 20222 Manufacture of varnishes, lacquers, shellac and stains 20223 Manufacture of paint removers, thinners, and brush cleaners 20224 Manufacture of pigments and other coloring matter of a kind used in the manufacture of paints or by artists or other painters 20225 Manufacture of printing ink 20229 Manufacture of paint products, n.e.c. 20231 Manufacture of soap and detergents 20232 Manufacture of cleaning preparations, except soap and detergents 20233 Manufacture of waxes and polishing preparations

Default		Values for Manila Bay/Philippines
		20234 Manufacture of perfumes, cosmetics and other toilet preparations 20291 Manufacture of explosives, fireworks and firecrackers 20292 Manufacture of matches 20293 Manufacture of writing and drawing ink 20294 Manufacture of glues and adhesives 20295 Manufacture of activated carbon 20299 Manufacture of miscellaneous chemical products, n.e.c.
C21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	21001 Manufacture of drugs and medicines including biological products such as bacterial and virus vaccines, sera and plasma 21002 Manufacture of surgical dressings, medicated wadding, fracture bandages, catgut, and other prepared sutures
C22	Manufacture of rubber and plastics products	22111 Manufacture of rubber tires (including parts) and tubes 22112 Retreading and rebuilding of tires 22191 Manufacture of rubber garments 22192 Manufacture of industrial and other molded rubber products, excluding tires and tubes 22199 Manufacture of other rubber products, n.e.c. 22201 Manufacture of plastic articles for packing goods (e.g. boxes, bags, sacks, etc) 22202 Manufacture of plastic household wares 22203 Manufacture of plastic furniture fittings 22204 Manufacture of plastic pipes and tubes 22205 Manufacture of other plastic, industrial /office/school supplies 22206 Manufacture of primary plastic products (e.g. sheets, film, plates, etc.) 22207 Manufacture of linoleum and hard surface floor coverings 22208 Manufacture of plastic window and doorscreen, shades and venetian blinds 22209 Manufacture of plastics products, n.e.c.
C23	Manufacture of other non-metallic mineral products	23101 Manufacture of flat glass (including float glass) 23102 Manufacture of glass containers 23103 Manufacture of glass fibers (including glass wool) and yarn of glass fibers 23910 Manufacture of refractory products 23920 Manufacture of clay building materials 23931 Manufacture of vitreous china tableware and other kitchen articles of a kind commonly used for domestic or toilet purposes 23932 Manufacture of articles of porcelain or china, stoneware, earthenware, imitation porcelain or common pottery 23933 Manufacture of coarse clay products 23934 Manufacture of sanitary ware, vitreous china plumbing fittings and fixtures 23939 Manufacture of other porcelain and ceramic products, n.e.c. 23940 Manufacture of cement 23951 Manufacture of lime

Default		Values for Manila Bay/Philippines
		23952 Manufacture of plaster 23961 Manufacture of structural concrete products 23969 Manufacture of articles of concrete, cement and plaster, n.e.c. 23970 Cutting, shaping and finishing of stone 23991 Manufacture of asphalt products 23992 Manufacture of asbestos products 23993 Manufacture of marble products 23994 Manufacture of abrasive products 23999 Manufacture of miscellaneous non-metallic mineral products, n.e.c.
C24	Manufacture of basic metals	24110 Operation of blast furnaces and steel making furnaces 24121 Operation of rolling mills 24122 Pipes and tubes manufacturing, iron or steel 24123 Manufacture of pipe fittings of iron or steel 24124 Manufacture of galvanized steel sheets, tinplates and other coated metal products made in steel works of rolling mills 24129 Operation of steel works and rolling mills, n.e.c. 24210 Gold and other precious metal refining 24220 Non-ferrous smelting and refining , except precious metals 24230 Non-ferrous rolling, drawing and extrusion mills 24240 Manufacture of pipe fittings of non-ferrous metals 24290 Manufacture of basic precious and other non-ferrous metals, n.e.c. 24311 Casting/foundry of iron 24312 Casting/foundry of steel 24321 Aluminum and aluminum base alloy casting 24322 Copper and copper base alloy (brass, bronze) casting 24323 Zinc and zinc alloy casting 24329 Casting of non-ferrous metal, n.e.c.
C25	Manufacture of fabricated metal products, except machinery and equipment	25111 Manufacture of structural steel products and metal components of bridges, smoke stacks and buildings 25112 Manufacture of other architectural and related metal work (e.g., doors, windows, shutters, gates, etc.) 25119 Manufacture of structural metal products, n.e.c. 25120 Manufacture of tanks, reservoirs and containers of metal 25130 Manufacture of steam generators, except central heating hot water boilers 25201 Manufacture of small arms and accessories 25209 Manufacture of weapons and ammunitions, n.e.c. 25911 Forging, pressing, stamping and roll-forming of metal products 25912 Powder metallurgy 25920 Treatment and coating of metals; machining 25931 Manufacture of cutlery 25932 Manufacture of handtools 25933 Manufacture of general hardware 25934 Manufacture of blacksmithing tools and welding shop operation

Default	Values for Manila Bay/Philippines
	25991 Manufacture of metal containers used for the packing or conveyance of goods 25992 Manufacture of wire nails, not in steel rolling 25993 Manufacture of fabricated wire products 25994 Manufacture of small hand-operated kitchen appliances 25995 Manufacture of metal sanitary ware and plumbing fixtures 25996 Manufacture of needles (except for knitting and sewing machines), pins and fasteners including zippers 25997 Manufacture of aluminum window and door screens, shades and venetian blinds 25999 Manufacture of miscellaneous fabricated metal products, n.e.c.
C26 Manufacture of computer, electronic and optical products	26110 Manufacture of electronic valves and tubes 26120 Manufacture of semi-conductor devices and other electronic components 26200 Manufacture of computers and peripheral equipment and accessories 26300 Manufacture of communication equipment 26400 Manufacture of consumer electronics 26511 Manufacture of radar equipment, radio remote control apparatus 26512 Manufacture of electrical quantities measuring and controlling instruments 26513 Manufacture of temperature measuring and controlling hygrometric instruments 26514 Manufacture of pressure measuring and controlling instruments and gauges 26515 Manufacture of flow of liquids or gases measuring and controlling instruments 26516 Manufacture of mechanical motion, measuring and controlling, timing and cycle instruments 26517 Manufacture of industrial process control equipment 2651 Manufacture of professional and scientific and measuring and controlling equipment, n.e.c. 26521 Manufacture of watches and clocks of all kinds including cases of precious metals 26522 Manufacture of watch bands and bracelets of precious metals 26529 Manufacture of other watch and clocks parts, n.e.c. 26601 Manufacture of X-ray apparatus 26602 Manufacture of electrotherapeutic apparatus 26603 Manufacture of medical laser equipment 26604 Manufacture of Computerized Tomography (CT) scanner, Positron Emission Tomography (PET) scanner 26605 Manufacture of MRI equipment 26606 Manufacture of medical ultrasound equipment 26609 Manufacture of other irradiation, electromedical and electrotherapeutic equipment, n.e.c. 26701 Manufacture of optical instruments and lenses

Default	Values for Manila Bay/Philippines
	26702 Manufacture of photographic equipment and accessories 26800 Manufacture of magnetic and optical media
C27 Manufacture of electrical equipment	27111 Manufacture of electric motors and generators 27112 Manufacture of electrical transformers 27113 Manufacture of electric generating sets 27121 Manufacture of switch gear and switchboard apparatus 27122 Manufacture of electricity distribution equipment 27123 Manufacture of switches, fuses, sockets, plugs, conductors and lightning arresters and other control apparatus 27201 Manufacture of accumulators (storage batteries) including parts 27202 Manufacture of primary cells and batteries 27310 Manufacture of fiber optic cables 27320 Manufacture of other electronic and electric wires and cables 27330 Manufacture of wiring devices 27401 Manufacture of electric lamps fluorescent and fixtures 27402 Manufacture of lighting equipment and parts except for use on cycle and motor equipment 27403 Manufacture of motor vehicle lighting equipment 27404 Manufacture of bicycle lighting equipment 27405 Manufacture of lighting sets used for Christmas trees and the like 27501 Manufacture of domestic electric fans 27502 Manufacture of domestic-type refrigerators and laundry equipment (e.g. clothes washers, washer-dryers, dryers) 27503 Manufacture of domestic cooking appliances (e.g. ovens, ranges, cookers, stoves, grillers, etc.) 27504 Manufacture of electrothermic domestic appliances (e.g. hair dressing appliances, electric instantaneous storage, heaters, flat-irons, plate warmers, coffee or teamakers) 27505 Manufacture of domestic-type water filters and/or purifiers 27509 Manufacture of domestic appliances, n.e.c. 27901 Manufacture of battery chargers, solid state 27902 Manufacture of uninterruptible power supplies (UPS) 27903 Manufacture of appliance cords, extension cords, and other electrical cord 27904 Manufacture of accelerators (cyclotrons, betatrons) 27905 Manufacture of electrical signalling equipment such as traffic lights and pedestral signaling equipment 27909 Manufacture of other electrical equipment, n.e.c.
C28 Manufacture of machinery and equipment n.e.c	28111 Manufacture of internal combustion engines (gas and diesel) 28112 Manufacture of engines and turbines for marine propulsion 28113 Manufacture of parts of engines and turbines, except for aircraft, vehicle and cycle engines 28119 Manufacture of engines and turbines, except for transport, n.e.c.

Default	Values for Manila Bay/Philippines
	<p>28120 Manufacture of fluid power equipment</p> <p>28131 Manufacture of pumps for liquids, vacuum pumps, air or other gas compressors</p> <p>28132 Manufacture of taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like</p> <p>28140 Manufacture of bearings, gears and driving elements</p> <p>28150 Manufacture of ovens, furnaces and furnace burners</p> <p>28161 Manufacture of lifting and hoisting machinery, cranes, elevators , industrial trucks, tractors, stackers, specialized ports for lifting and handling equipment</p> <p>28162 Manufacture of derricks, lifting and handling equipment for construction and mining</p> <p>28163 Manufacture of marine capstans, pulley tackle and hoists, etc.</p> <p>28169 Manufacture of other lifting and handling equipment, nec.</p> <p>28171 Manufacture of calculating machines, adding machines, cash registers, calculators</p> <p>28172 Manufacture of bills/coin counting and coin wrapping machinery</p> <p>28173 Manufacture of postage meters, mail handling machines (envelope stuffing, sealing and addressing machinery, opening, sorting, scanning), collating machinery</p> <p>28174 Manufacture of typewriters</p> <p>28175 Manufacture of duplicating machines</p> <p>28176 Manufacture of photo-copying apparatus incorporating an optical system or of the contact type and thermo copying apparatus</p> <p>28179 Manufacture of other office machinery and equipment (except computers and peripheral equipment), n.e.c.</p> <p>28180 Manufacture of power-driven hand tools</p> <p>28191 Manufacture of weighing machines except scientific weighing apparatus used for laboratories</p> <p>28192 Manufacture of refrigerating or freezing equipment for commercial purposes</p> <p>28193 Manufacture of unit air-conditioners</p> <p>28194 Manufacture of packing and wrapping machinery</p> <p>28195 Manufacture of machinery for cleaning or drying bottles or other containers or for aerating beverages</p> <p>28196 Manufacture of fans intended for industrial applications, exhaust hoods for commercial, laboratory or industrial use</p> <p>28197 Manufacture of calendering or other rolling machines other than for metals or glass</p> <p>28199 Manufacture of other general-purpose machinery, n.e.c. (including manufacture of specialized parts for general purpose machinery and equipment)</p> <p>28211 Manufacture of farm tractors</p> <p>28212 Manufacture of mechanical implements for crop production</p> <p>28213 Manufacture of animal husbandry machinery and equipment</p>

Default	Values for Manila Bay/Philippines
	28219 Manufacture of agricultural and forestry machinery and equipment, n.e.c. 28221 Manufacture of machine tools for working metal 28222 Manufacture of machine tools and accessories including precision measuring tools 28223 Parts and accessories for the machine tools classified in this group 28224 Manufacture of apparatus for electroplating, electrolysis and electrophoresis 28229 Manufacture of metal-forming machinery and machine tools, n.e.c. 28230 Manufacture of machinery for metallurgy 28241 Manufacture of heavy machinery and equipment used for mining and quarrying 28242 Manufacture of heavy machinery and equipment used for construction 28251 Manufacture of machinery for food processing 28252 Manufacture of presses, crushers and similar machinery used to make wine, cider, fruit juices or similar beverages 28253 Manufacture of machinery for the preparation of tobacco and for the making of cigarettes or cigars, or pipe or chewing tobacco or snuff 28261 Manufacture of textile machinery 28262 Manufacture of machineries for man-made textile fibers or yarns 28263 Manufacture of sewing machines 28264 Manufacture of washing, laundry, dry-cleaning and pressing machines 28265 Manufacture of needles for knitting, sewing machines 28269 Manufacture of machinery for textile apparel and leather production, n.e.c. 28291 Manufacture of machinery for pulp, paper and paperboard industries 28292 Manufacture of machinery for working rubber or plastic or for the manufacture of products of these materials 28293 Manufacture of printing-trade machinery and equipment 28294 Manufacture of machinery for producing tiles, bricks, shaped ceramic pastes, pipes, graphite, electrodes, blackboard chalk, foundry molds, etc. 28295 Manufacture of machines for production or hot-working of glass; glassware or yarn 28296 Manufacture of centrifugal clothes driers 28299 Manufacture of other special-purpose machinery, n.e.c.
C29 Manufacture of motor vehicles, trailers and semi-trailers	29100 Manufacture of motor vehicles 29201 Manufacture of bodies (coachwork) for motor vehicles 29202 Manufacture of trailers and semi-trailers

Default	Values for Manila Bay/Philippines
C30 Manufacture of other transport equipment	30111 Building of ships and boats other than sports and pleasure boats 30112 Manufacture of floating or submersible drilling platforms 30113 Manufacture of inflatable rafts 30114 Manufacture of metal sections for ships and barges 30121 Manufacture of inflatable boats 30129 Manufacture of other pleasure and sporting boats, n.e.c. 30201 Building and rebuilding of locomotives of any type of gauge, and railroad and tramway cars for freight and passenger service 30202 Production of specialized parts for locomotives, railroad and tramway 30300 Manufacture of air and spacecraft and related machinery 30400 Manufacture of military fighting vehicles 30911 Manufacture and assembly of motorcycles 30912 Manufacture of motorcycle engines and parts thereof 30913 Manufacture of tricycles and parts thereof 30914 Manufacture of side cars 30915 Manufacture of parts and accessories of motorcyles 30921 Manufacture of bicycles and bicycle parts 30922 Manufacture of invalid carriages, motorized and non-motorized 30923 Manufacture of baby carriages 30991 Manufacture of hand-propelled vehicles 30992 Manufacture of animal drawn vehicles
C31 Manufacture of furniture	31010 Manufacture of wood furniture 31020 Manufacture of rattan furniture (reed, wicker, and cane) 31030 Manufacture of box beds and mattresses 31040 Manufacture of partitions, shelves, lockers and office and store fixtures 31050 Manufacture of plastic furniture 31060 Manufacture of furniture and fixtures of metal 31090 Manufacture of other furniture and fixtures, n.e.c.
C32 Other manufacturing	32111 Manufacture of jewelry made of precious and semi-precious stones 32112 Manufacture of silverware and plated ware 32113 Manufacture of watchbands and bracelets of precious metals 32119 Manufacture of articles related to jewelry 32120 Manufacture of imitation of jewelry and related articles 32201 Manufacture of guitars 32202 Manufacture of string instruments, other than guitars 32203 Manufacture of pianos 32204 Manufacture of musical organs (all types) 32205 Manufacture of wind and percussion instruments 32206 Manufacture of instrument parts and accessories 32209 Manufacture of musical instruments, n.e.c.

Default	Values for Manila Bay/Philippines
	32301 Manufacture of sporting gloves and mitts 32302 Manufacture of sporting balls 32309 Manufacture of sporting and athletic goods, n.e.c. 32401 Manufacture of dolls and doll garments 32402 Manufacture of wheeled toys 32403 Manufacture of billiard, pool, bowling alley and similar games equipment 32404 Manufacture of electronic games (video games, checkers) 32409 Manufacture of toys and games, n.e.c. 32501 Manufacture of medical, surgical, dental furniture and fixtures 32502 Manufacture of ophthalmic goods, eyeglasses, sunglasses, lenses ground to prescription, contact lenses, safety goggles 32503 Manufacture of prosthetic appliances, artificial teeth made to order 32504 Manufacture of medical and precision instruments 32505 Manufacture of temperature measuring and controlling hygrometric instruments 32506 Manufacture of cement used in dentistry 32509 Manufacture of other medical and dental instruments and supplies, n.e.c. 32910 Manufacture of pens and pencils of all kinds 32920 Manufacture of umbrellas, walking sticks, canes, whips and riding crops 32930 Manufacture of articles for personal use, e.g. smoking pipes, combs, slides and similar articles 32940 Manufacture of candles 32950 Manufacture of artificial flowers, fruits and foliage 32961 Manufacture of wooden coffin 32962 Manufacture of metal coffin 32991 Manufacture of buttons, except plastic 32992 Manufacture of brooms, brushes and fans 32993 Manufacture of identification plates, badges, emblems and tags 32994 Manufacture of signs and advertising displays 32995 Manufacture of cigarette lighters 32999 Manufacture of miscellaneous articles, n.e.c.
C33 Repair and installation of machinery and equipment	33110 Repair of fabricated metal products 33120 Repair of machinery 33130 Repair of electronic and optical equipment 33140 Repair of electrical equipment 33151 Repairing of ships and boats other than sports and pleasure boats 33152 Repairing of sports and pleasure boats 33159 Repair of transport equipment, except motor vehicles, n.e.c. 33190 Repair of other equipment 33200 Installation of industrial machinery and equipment

Default		Values for Manila Bay/Philippines
d) SECOMMES: Establishment type		
D35	Electricity, gas, steam and air conditioning supply	35 Electricity, gas, steam and air conditioning supply 35100 Electric power generation, transmission and distribution 35200 Manufacture of gas; distribution of gaseous fuels through mains 35300 Steam, air conditioning supply and production of ice
E36	Water collection, treatment and supply	36000 Water collection, treatment and supply
E37	Sewerage	37000 Sewerage
E38	Waste collection, treatment and disposal activities; materials recovery	38 Waste collection, treatment and disposal activities; materials recovery 381 Waste collection 38110 Collection of non-hazardous waste 38120 Collection of hazardous waste 382 Waste treatment and disposal 38210 Treatment and disposal of non-hazardous waste 38220 Treatment and disposal of hazardous waste 38300 Materials recovery
E39	Remediation activities and other waste management services	39000 Remediation activities and other waste management services
F41	Construction of buildings	41 Construction of buildings 4100 Construction of buildings 41001 Residential (dwelling) building constructions 41002 Non-residential building constructions
F42	Civil engineering	42 Civil engineering 4220 Construction of utility projects 42100 Construction of roads and railways 42200 Construction of utility projects 42900 Construction of other civil engineering projects
F43	Specialized construction activities	43 Specialized construction activities 4310 Demolition and site preparation 43110 Demolition or wrecking of buildings and other structures 43120 Site preparation for subsequent construction activities 4320 Electrical, plumbing and other construction installation activities 43210 Electrical installation 43220 Plumbing, heat and air-conditioning installation 43290 Other construction installation 4330 Building completion and finishing 43301 Painting and related work 43302 Floor and wall tiling or covering with other material 43303 Carpentry 43309 Other building completion and finishing activities 43900 Other specialized construction activities
G45	Wholesale and retail trade and repair of motor vehicles and motorcycles	45 Wholesale and retail trade and repair of motor vehicles and motorcycles

Default	Values for Manila Bay/Philippines
	<p>4510 Sale of motor vehicles 45101 Sale of passenger motor vehicles 45102 Sale of lorries, trailers and semi-trailers 45109 Sale of other motor vehicles</p> <p>4520 Maintenance and repair of motor vehicles 45201 Repair of motor vehicles, including overhauling 45202 Repair of batteries for motor vehicles 45203 Vulcanizing or preparing of tires for motor vehicles 45209 Maintenance of motor vehicles, n.e.c.</p> <p>4530 Sale of motor vehicle parts and accessories 45301 Wholesale of motor vehicles parts and accessories 45302 Retail sale of motor vehicles parts and accessories 45303 Wholesale of motor vehicles tires and batteries 45304 Retail sale of motor vehicles tires and batteries 45309 Sale of motor vehicle parts and accessories, n.e.c.</p> <p>4540 Sale, maintenance and repair of motorcycles and related parts and accessories 45401 Sale of motorcycles and their parts and components 45402 Maintenance and repair of motorcycles and their parts and components</p>
G-46 Wholesale trade, except for motor vehicles and motorcycles;	<p>46 Wholesale trade, except for motor vehicles and motorcycles</p> <p>4610 Wholesale on a fee or contract basis 46101 Wholesale on a fee or contract basis, of agricultural raw materials and live animals 46102 Wholesale on a fee or contract basis, of food, beverages and tobacco 46103 Wholesale on a fee or contract basis, of textile, clothing, and footwear 46104 Wholesale on a fee or contract basis, of household appliances, articles and equipment 46105 Wholesale on a fee or contract basis, of miscellaneous consumer goods 46106 Wholesale on a fee or contract basis, of construction materials and hardware 46107 Wholesale on a fee or contract basis, of chemical and pharmaceutical products 46108 Wholesale on a fee or contract basis, of machinery, equipment and supplies 46109 Wholesale on a fee or contract basis, of other products</p> <p>4620 Wholesale of agricultural raw materials and live animals 46201 Wholesale of palay, corn (unmilled) and other grains 46202 Wholesale of abaca and other fibers, except synthetic fibers 46203 Wholesale of coconut and coconut by-products 46204 Wholesale of oleaginous fruits (e.g., oil seeds, palm oil, sunflower seeds, etc.) 46205 Wholesale of tobacco leaf 46206 Wholesale of flowers and plants 46207 Wholesale of livestock and poultry and unprocessed animal products 46208 Wholesale of fish and other seafoods</p>

Default	Values for Manila Bay/Philippines
	<p>46209 Wholesale of farm, forest and marine products, including seeds and animal feeds, hides and skins, leather, etc., n.e.c.</p> <p>4630 Wholesale of food, beverages and tobacco</p> <p>46301 Wholesale of fruits, nuts and vegetables</p> <p>46302 Wholesale of sugar, confectionery and bakery products and other processed foods</p> <p>46303 Wholesale of meat and poultry products, including eggs</p> <p>46304 Wholesale of rice, corn and other cereals</p> <p>46305 Wholesale of fishery products</p> <p>46306 Wholesale of drinking water, juices (including powder), coffee, tea, cocoa and other beverages</p> <p>46307 Wholesale of tobacco products</p> <p>46308 Wholesale of spices</p> <p>46309 Other wholesale of food, beverage and tobacco, n.e.c.</p> <p>4641 Wholesale of textiles, clothing and footwear</p> <p>46411 Wholesale of textile fabrics, all kinds, including man-made fibers</p> <p>46412 Wholesale of wearing apparel, except footwear</p> <p>46413 Wholesale of made-up textile goods, except wearing apparel</p> <p>46414 Wholesale of articles of clothing, including accessories</p> <p>46415 Wholesale of footwear, all kinds of materials</p> <p>46416 Wholesale of embroideries</p> <p>46417 Wholesale of cordage, rope and twine</p> <p>46418 Wholesale of leather and leather goods, including man-made leather, except footwear</p> <p>46419 Wholesale of textiles, clothing and footwear, n.e.c.</p> <p>46421 Wholesale of medicinal and pharmaceutical products</p> <p>46422 Wholesale of surgical and orthopedic instruments and devices</p> <p>46423 Wholesale of photographic and optical goods</p> <p>46424 Wholesale of musical instruments/sporting goods (including bicycles), and games and toys</p> <p>46425 Wholesale of paper and paper products (including stationeries)</p> <p>46426 Wholesale of books, magazines and newspapers</p> <p>46427 Wholesale of perfumeries, cosmetics and soaps</p> <p>46428 Wholesale of watches, clocks and jewelries</p> <p>46429 Wholesale of miscellaneous consumer goods, n.e.c.</p> <p>46491 Wholesale of household-type appliances, except radio and television equipment, CD and DVD players/recorders</p> <p>46492 Wholesale of household furniture, furnishing and fixtures</p> <p>46493 Wholesale of recorded audio and video tapes, CDs, DVDs</p> <p>46494 Wholesale of chinaware, glassware, earthenware, woodenware, wickerware, corkware, plasticware, cutlery and utensils</p> <p>46495 Wholesale of handicraft products</p> <p>46496 Wholesale of lighting equipment</p> <p>46499 Wholesale of other household goods, n.e.c.</p> <p>465 Wholesale of machinery, equipment and supplies</p>

Default	Values for Manila Bay/Philippines
	<p>46510 Wholesale of computers, computer peripheral equipment and software</p> <p>4652 Wholesale of electronic and telecommunications equipment and parts</p> <p>46521 Wholesale of electronic valves and tubes</p> <p>46522 Wholesale of semi-conductor devices</p> <p>46523 Wholesale micro-chips and integrated circuits</p> <p>46524 Wholesale of printed circuits</p> <p>46525 Wholesale of radio and television including parts and accessories</p> <p>46526 Wholesale of telephone and communications equipment including parts and accessories</p> <p>46527 Wholesale of blank audio and video tapes and diskettes, magnetic and optical disks (CDs, DVDs)</p> <p>46530 Wholesale of agricultural machinery, equipment and supplies</p> <p>4659 Wholesale of other machinery and equipment</p> <p>46591 Wholesale of commercial machinery and equipment</p> <p>46592 Wholesale of industrial machinery and equipment</p> <p>46593 Wholesale of office machinery equipment including office furniture, furnishings, appliances and vases</p> <p>46594 Wholesale of professional and scientific and measuring and controlling equipment</p> <p>46595 Wholesale of transport equipment and supplies, except land motor vehicles, motorcycles and bicycles</p> <p>46599 Wholesale of other machinery and equipment, n.e.c.</p> <p>466 Other specialized wholesale</p> <p>46610 Wholesale of solid, liquid and gaseous fuels and related products</p> <p>46620 Wholesale of metals and metal ores</p> <p>4663 Wholesale of construction materials, hardware, plumbing and heating equipment and supplies</p> <p>46631 Wholesale of lumber and planing mill products, wood in the rough</p> <p>46632 Wholesale of cement, hydraulic</p> <p>46633 Wholesale of masonry materials, except cement</p> <p>46634 Wholesale of flat glass</p> <p>46635 Wholesale of hardware, paints, varnishes and lacquers, and plumbing materials, including fittings and fixtures</p> <p>46636 Wholesale of electrical materials</p> <p>46637 Wholesale of wallpaper and floor coverings</p> <p>46639 Wholesale of construction materials and supplies, n.e.c.</p> <p>4669 Wholesale of waste and scrap and other products, n.e.c.</p> <p>46691 Wholesale of industrial chemical products</p> <p>46692 Wholesale of fertilizers and agro-chemical products</p> <p>46693 Wholesale of non-metallic products except cement, sand and gravel</p> <p>46694 Wholesale of scrap metals, waste and junk</p> <p>46695 Wholesale of scraps, except metal</p> <p>46699 Wholesale of other waste and scrap and products, n.e.c.</p>

Default	Values for Manila Bay/Philippines
	46900 Non-specialized wholesale trade
G47 Retail trade, except for motor vehicles and motorcycles	<p>47 Retail trade, except for motor vehicles and motorcycles</p> <p>4711 Retail sale in non-specialized stores with food, beverages or tobacco predominating</p> <p>47111 Retail selling in groceries</p> <p>47112 Retail selling in supermarkets</p> <p>47113 Retail selling in sari-sari stores</p> <p>47114 Retail selling in convenience stores</p> <p>47191 Retail selling in department stores</p> <p>47199 Retail selling in non-specialized stores, n.e.c.</p> <p>4721 Retail sale of food in specialized stores</p> <p>47211 Retail sale of fruits and vegetables</p> <p>47212 Retail sale of eggs and dairy products</p> <p>47213 Retail sale of meat and poultry products</p> <p>47214 Retail sale of bakery products</p> <p>47215 Retail sale of fish and other seafoods (fresh and dried)</p> <p>47216 Retail sale of rice, corn and other cereals</p> <p>47219 Retail sale of food products, n.e.c.</p> <p>4722 Retail sale of beverages in specialized stores</p> <p>47221 Retail sale of alcoholic beverages (not consumed on the spot)</p> <p>47222 Retail sale of non-alcoholic beverage</p> <p>47230 Retail sale of tobacco products in specialized stores</p> <p>47300 Retail sale of automotive fuel in specialized stores</p> <p>4741 Retail sale of computers, peripheral units, software and telecommunications equipment in specialized stores</p> <p>47411 Retail sale of computers</p> <p>47412 Retail sale of computer peripheral equipment</p> <p>47413 Retail sale of computer software</p> <p>47414 Retail sale of cellular phones, parts and accessories</p> <p>47419 Retail sale of other telecommunications equipment</p> <p>4742 Retail sale of audio and video equipment in specialized stores</p> <p>47421 Retail sale of of radio and television, including parts and accessories</p> <p>47422 Retail sale of audio and video equipment</p> <p>47423 Retail sale of stereo equipment, CD and DVD players and equipment</p> <p>47429 Retail sale of audio and video equipment, n.e.c.</p> <p>4751 Retail sale of textiles in specialized stores</p> <p>47511 Retail sale of textiles, all kinds</p> <p>47512 Retail sale of modistes' supplies</p> <p>4752 Retail sale of hardware, paints and glass in specialized stores</p> <p>47521 Retail sale of hardware materials</p> <p>47522 Retail sale of glass and mirror</p> <p>47523 Retail sale of lumber</p> <p>47524 Retail sale of construction materials</p> <p>47525 Retail sale of masonry materials</p>

Default	Values for Manila Bay/Philippines
	<p>47526 Retail sale of nipa, bamboo and rattan</p> <p>47527 Retail sale of paints, varnishes and lacquers</p> <p>47529 Retail sale of construction supplies, n.e.c</p> <p>4759 Retail sale of electrical household appliances, furniture, lighting equipment and other household articles in specialized stores</p> <p>47591 Retail sale of home furnishing, furniture and fixtures, including lamps and lamp shades</p> <p>47592 Retail sale of chinaware, glassware, earthenware and utensils</p> <p>47593 Retail sale of household appliances, articles and equipment</p> <p>47594 Retail sale of musical instruments and records, tapes and cartridges</p> <p>47595 Retail sale of handicrafts</p> <p>47599 Retail sale of electrical household appliances, furniture, lighting equipment and other household articles in specialized stores, n.e.c.</p> <p>4763 Retail sale of sporting equipment in specialized stores</p> <p>47610 Retail sale of books, newspapers and stationery in specialized stores</p> <p>47620 Retail sale of music and video recordings in specialized stores</p> <p>47631 Retail sale of sporting goods and athletic supplies</p> <p>47632 Retail sale of marine supplies, including nets and gears</p> <p>47633 Retail sale of camping goods and bicycles</p> <p>47640 Retail sale of games and toys in specialized stores</p> <p>4771 Retail sale of clothing, footwear and leather articles in specialized store</p> <p>47711 Retail sale of wearing apparel, except footwear</p> <p>47712 Retail sale of made-up textile goods</p> <p>47713 Retail sale of footwear, all kinds</p> <p>47714 Retail sale of leather and artificial leather goods and travel accessories, except footwear</p> <p>47719 Retail sale of other clothing, footwear and leather articles in specialized stores, n.e.c.</p> <p>4772 Retail sale of pharmaceutical and medical goods, cosmetic and toilet articles in specialized stores</p> <p>47721 Retail sale of drugs and pharmaceutical goods</p> <p>47722 Retail sale of medical, surgical and orthopedic goods/instruments and dental supplies</p> <p>47723 Retail sale of perfumery, cosmetic and toilet articles</p> <p>4773 Other retail sale of new goods in specialized stores</p> <p>47731 Retail sale of feeds, fertilizers and insecticides</p> <p>47732 Retail sale of toys, gifts and novelty goods</p> <p>47733 Retail sale of office machines and equipment, excluding computers and computer peripheral equipment</p> <p>47734 Retail sale of jewelry, watches and clocks</p> <p>47735 Retail sale of fresh and artificial flowers and plants</p> <p>47736 Retail sale of beauty parlor supplies and equipment</p> <p>47737 Retail sale of art goods, marble products, painting and</p>

Default	Values for Manila Bay/Philippines
	<p>artists' supplies</p> <p>47738 Retail sale of optical goods and supplies</p> <p>47739 Other retail sale of new goods in specialized stores, n.e.c.</p> <p>4774 Retail sale of second-hand goods</p> <p>47741 Retail sale of second-hand clothing, footwear and leather articles</p> <p>47742 Retail sale of books and other goods</p> <p>47743 Retail sale of antiques and auctioning houses</p> <p>47749 Retail sale of second-hand goods, n.e.c.</p> <p>47750 Retail sale of liquefied petroleum gas and other fuel products</p> <p>4791 Retail sale via mail/telephone order houses or via internet</p> <p>47810 Retail sale via stalls and markets of food, beverages and tobacco products</p> <p>47820 Retail sale via stalls and markets of textiles, clothing and footwear</p> <p>47891 Retail sale of prepaid cards</p> <p>47892 Retail sale of internet card</p> <p>47893 Retail sale of electronic load</p> <p>47894 Retail sale of music and video recordings</p> <p>47895 Retail sale of household appliances and consumer electronics</p> <p>47896 Retail sale of books</p> <p>47897 Retail sale of games and toys</p> <p>47898 Retail sale of carpets and rugs</p> <p>47899 Other retail sale via stalls and markets of other goods, n.e.c.</p> <p>4791 Retail sale via mail/telephone order houses or via internet</p> <p>47911 Retail sale via mail order</p> <p>47912 Retail sale via telephone order</p> <p>47913 Retail sale via internet</p> <p>47991 Door-to-door retailing</p> <p>47992 Selling by vending machine</p> <p>47993 Retail sale of health products, non-store</p> <p>47994 Retail sale of water (including distribution)</p> <p>47999 Other retail sale not in stores, stalls or markets, n.e.c</p>
H49 Land transport; transport via pipelines	<p>49 Land transport; transport via pipelines</p> <p>4911 Passenger rail transport, inter-urban</p> <p>49111 Inter-urban passenger railway transport</p> <p>49112 Urban and suburban railway transport</p> <p>4920 Transport via buses</p> <p>49201 Inter-urban bus line operation</p> <p>49202 Urban and suburban bus line operation</p> <p>49203 Local bus line operation</p> <p>49204 Chartered buses and cars operation (e.g. tourist buses, rent-a-car)</p> <p>49205 Operation of school buses/shuttle</p> <p>49209 Other transport via buses, n.e.c.</p>

Default	Values for Manila Bay/Philippines
	<p>493 Other land transport 49310 Urban or suburban passenger land transport, except by bus</p> <p>4932 Other passenger land transport 49321 Jeepney and Asian Utility Vehicle (AUV) operation 49322 Tricycles and pedicabs operation 49323 Public utility cars and taxicabs operation 49329 Other land transport operation, n.e.c.</p> <p>4933 Freight transport by road 49331 Truck-for-hire operation (with driver) 49332 Freight truck operation 49333 Tank truck delivery services 49339 Freight transport operation, by road, n.e.c.</p>
H50 Water transport	<p>50 Water Transport</p> <p>5011 Sea and coastal passenger water transport 50111 Ocean passenger transport 50112 Interisland water passenger transport 50113 Renting of ship with operator 50121 Ocean freight transport 50122 Interisland water freight transport 50123 Towing and pushing services on coastal and trans-oceanic waters</p> <p>5012 Sea and coastal freight water transport 50210 Inland passenger water transport 50220 Inland freight water transport</p>
H51- Air transport	<p>51 Air transport</p> <p>5110 Passenger air transport 51101 Domestic air passenger transport 51102 International air passenger transport 51103 Non-scheduled air passenger transport</p> <p>5120 Freight air transport 51201 Domestic air - freight transport 51202 International air freight transport 51203 Non-scheduled air freight transport</p>
H52 Warehousing and support activities for transportation	<p>52 Warehousing and support activities for transportation</p> <p>5210 Warehousing and storage 52101 General bonded warehouses except grain warehouse 52102 Grain warehouses 52103 Customs bonded warehouses 52104 Cold storage</p> <p>5221 Service activities incidental to land transportation 52211 Freight terminal facilities for trucking companies 52212 Operation of parking lots 52213 Operation of toll roads and bridges 52219 Other supporting land transport activities, n.e.c. 52220 Service activities incidental to water transportation 52230 Service activities incidental to air transportation</p> <p>5224 Cargo handling 52241 Containerized cargo handling, auxiliary activity to land transport 52242 Non- containerized cargo handling, auxiliary activity to</p>

Default		Values for Manila Bay/Philippines
		land transport 5229 Other transportation support activities 52291 Freight forwarding services 52292 Customs brokerage (ship and aircraft) 52293 Logistics services 52299 Activities of other transport agencies, n.e.c.
H53	Postal and courier activities	53 Postal and courier activities 53100 Postal activities 5320 Courier activities 53201 Private postal service 53202 Messenger service
I55	Accommodation	55 Accommodation 5510 Short term accommodation activities 5101 Hotels and motels 55102 Resort hotels 55103 Condotels 55104 Pension houses 55105 Camping sites/facilities 55109 Other short term accommodation activities, n.e.c 5590 Other accommodation 55901 Dormitories/boarding houses 55909 Other accommodation, n.e.c.
I56	Food and beverage service activities	56 food and beverage service activities 5610 Restaurants and mobile food service activities 56101 Restaurants 56102 Fast-food chains 56103 Cafeterias 56104 Refreshment stands, kiosks and counters 56105 Dining cars (carried on separate units) 56109 Other restaurants and mobile food service activities, n.e.c. 56210 Event catering 56290 Other food service activities 5630 Beverage serving activities 56301 Night clubs 56302 Bars and cocktail lounges 56303 Café or coffee shops 56309 Other beverage serving activities, n.e.c.
J58	Publishing activities	58. Publishing activities 581 Publishing of books, periodicals and other publishing activities 58110 Book Publishing 58120 Publishing of directories and mailing lists 58130 Publishing of newspapers, journals and periodicals 58190 Other publishing activities 58200 Software publishing
J59	Motion picture, video and television programme production, sound recording and music publishing activities	59. Motion picture, video and television programme production, sound recording and music publishing activities 59110 Motion picture, video and television programme activities 59120 Motion picture, video and television programme post-

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		production activities 59130 Motion picture, video and television programme distribution activities 59140 Motion picture projection activities 5920 Sound recording and music publishing activities 59201 Sound recording activities 59202 Publishing of music
J60	Programming and broadcasting activities	60 Programming and broadcasting activities 6010 Radio broadcasting 60101 Radio broadcasting and relay station and studios 60102 Radio program production 60103 Radio broadcasting activities over the Internet (Internet radio stations) 6020 Television programming and broadcasting activities 60201 Television broadcasting and relay stations and studios including closed circuit television services 60202 Television program production 60203 Television broadcasting activities over the Internet (Internet television stations)
J61	Telecommunications	61 Telecommunications 6110 Wired telecommunications activities 61101 Wired (landline) services 61102 Wired internet access service activities (e.g. DSL, leased line, dial-up) 61103 Telegraph, facsimile/telefax, and telex services 61109 Other wired telecommunications activities, including pay telephone 6120 Wireless telecommunications activities 61201 Wireless landline services 61202 Mobile telecommunications services 61203 Wireless internet access services (e.g. Internet Service Provider, broadband) 61209 Other wireless telecommunication services, n.e.c. 61300 Satellite telecommunications activities 6190 Other telecommunications activities 61901 Telephone access in facilities open to the public service activities 61902 Internet access in facilities open to the public service activities 61903 Voice Over Internet Protocol (VOIP) service activities 61909 Other telecommunications service activities, n.e.c.
J62	Computer programming, consultancy and related activities	62 Computer programming, consultancy and related activities 62010 Computer programming activities 62020 Computer consultancy and computer facilities management activities 62090 Other information technology and computer service activities
J63	Information service activities	63 Information service activities 6311 Data processing, hosting and related activities 63111 Data processing 63112 Website hosting services

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	63113 Application hosting services 639 Other information service activities 63910 News agency activities 63990 Other information service activities, n.e.c.
K64 Financial service activities, except insurance and pension funding	64 Financial service activities, except insurance and pension funding 641 Monetary intermediation 64110 Central banking 64191 Expanded commercial banking (universal banking) 64192 Regular commercial banking 64193 Savings and mortgage banking 64194 Private development banking 64195 Stock savings and loan activities 64196 Regular rural banking 64197 Cooperative rural banking 64198 Specialized government banking 64199 Banking activities, n.e.c 6420 Activities of holding companies 6430 Trusts, funds and other financial vehicles 64301 Investment company operation 64302 Investment house operation 64303 Securities dealership, own account 64304 Trust and investment management corporation operation 649 Other financial service activities, except insurance and pension funding activities 64921 Credit card activities 64922 Lending investor activities 64923 Financing company operations 64924 Venture capital corporation operation 64929 Other credit granting, n.e.c 64991 Mutual building and loan association operation 64992 Non-stock savings and loan association operation 64993 Credit cooperative activities 64994 Mutual benefit association operation 64999 Non-bank thrift institution operations, n.e.c.
K65 Insurance, reinsurance and pension funding, except compulsory social security	65 Insurance, reinsurance and pension funding, except compulsory social security 65110 Life insurance 65120 Non-life insurance 65200 Reinsurance 65300 Pension funding
K66 Activities auxiliary to financial service and insurance activities	66 Activities auxiliary to financial service and insurance activities 661 Activities auxiliary to financial service, except insurance and pension funding 66110 Administration of financial markets 66120 Security and commodity contracts brokerage 66130 Foreign exchange dealing 66190 Other activities auxiliary to financial service activities 662 Activities auxiliary to insurance and pension funding 66210 Risk and damage evaluation

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		66220 Activities of insurance agents and brokers 66231 Pre-need plan for health 66232 Pre-need plan for education 66233 Pre-need plan for memorial and interment 66234 Pre-need plan for pension 66239 Pre-need plan activities, n.e.c. 66290 Other activities auxiliary to insurance and pension funding 66300 Fund management activities
L68	Real estate activities	68 Real estate activities 68110 Real estate buying, selling, renting, leasing and operating of self-owned/leased apartment buildings, non-residential and dwellings 68120 Real estate buying, developing, subdividing and selling 68130 Cemetery and columbarium development, selling, renting, leasing and operating of self-owned cemetery/columbarium (including burial crypt) 68140 Renting or leasing services of residential properties 68190 Other real estate activities with own or leased property 68200 Real estate activities on a fee or contract basis
M69	Legal and accounting activities	69 Legal and accounting activities 69100 Legal activities 69200 Accounting, bookkeeping and auditing activities; tax consultancy
M70	Activities of head offices; management consultancy activities	70 Activities of head offices; management consultancy activities 70100 Activities of head offices 70200 Management consultancy activities
M71	Architectural and engineering activities; technical testing and analysis	71 Architectural and engineering activities; technical testing and analysis 71101 Environmental engineering 71102 Architectural and other engineering activities 71103 Land surveying services 71109 Other technical activities related to architectural and engineering 71200 Technical testing and analysis
M73	Advertising and market research	73 Advertising and market research 73101 Advertising agency, except billboard and outdoor advertising 73102 Billboard and outdoor advertising services 73103 Media representation 73104 Commercial art services 73109 Advertising services, n.e.c. 73200 Market research and public opinion polling
M74	Other professional, scientific and technical activities	74 Other professional, scientific and technical activities 74101 Fashion design 74102 Interior decoration services other than those in class 4330 74201 Digital photograph processing 74202 Commercial and consumer photograph production (except aerial photography) 74203 Photograph and motion pictures processing (not related to motion pictures and TV industries)

Default	Values for Manila Bay/Philippines
	74204 Film developing and printing and photograph enlarging 74205 Aerial photography 74206 Microfilming activities 74207 Underwater photography 74209 Photographic activities, n.e.c. 74901 Business brokerage activities 74902 Weather forecasting and meteorological services 74903 Translation and interpretation services 74904 Environmental consulting services 74909 Other professional, scientific and technical activities, n.e.c.
	75000 Veterinary activities
N77 Rental and leasing activities	77 Rental and leasing activities 77100 Renting and leasing of motor vehicles 772 Renting and leasing of personal and household goods 77291 Renting of wearing apparel 77292 Renting of furniture 77293 Renting of books, journals and magazines 77294 Renting of ornamental plants 77295 Renting of electrical appliances 77296 Renting of audio-video machines, tapes and records 77299 Renting of personal and household goods, n.e.c. 7730 Renting and leasing of other machinery, equipment and tangible goods, n.e.c. 77301 Renting of land transport equipment 77302 Renting of water transport equipment 77303 Renting of air transport equipment 77304 Renting of agricultural machinery and equipment 77305 Renting of construction and civil engineering machinery and equipment 77306 Renting of computers and computer peripherals equipment 77307 Renting of office machinery and equipment (excluding computers) 77309 Renting and leasing of other machinery, equipment and tangible goods, n.e.c 77400 Leasing of intellectual property and similar products, except copyrighted works
N-78 Employment activities	78 Employment activities 7810 Activities of employment placement agencies 78101 Labor recruitment and provision of personnel, local 78102 Labor recruitment and provision of personnel, overseas 78103 On-line employment placement agencies 78104 Casting agencies activities 78105 Theatrical booking agency activities 78109 Other activities of employment placement agencies, n.e.c. 7820 Temporary employment agency activities 78201 Temporary labor recruitment and provision of personnel, local 78202 Temporary labor recruitment and provision of personnel, overseas

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		78300 Other human resources provision
N79	Travel agency, tour operator, reservation service and related activities	79 Travel agency, tour operator, reservation service and related activities 791 Travel agency and tour operator activities 79120 Tour operator activities 7990 Other reservation service and related activities 79901 Activities of booking offices 79902 Accommodation reservation activities 79903 Transportation reservation activities 79904 Package tour reservation activities 79905 Tourist assistance activities (e.g. tourist guides) 79906 Event tickets, entertainment and recreational reservation activities 79907 Visitor information activities 79909 Other reservation service and related activities, n.e.c.
N80	Security and investigation activities	80 Security and investigation activities 80100 Private security activities 80200 Security systems service activities 80300 Investigation activities
N81	Services to buildings and landscape activities	81 Services to buildings and landscape activities 81100 Combined facilities support activities 812 Cleaning activities 81210 General cleaning of buildings 8129 Other building and industrial cleaning activities 81291 Industrial cleaning activities 81292 Pest control services, non-agricultural 81299 Other building and industrial cleaning activities, n.e.c. 81300 Landscape care and maintenance service activities
N82	Office administrative, office support and other business support activities	82 Office administrative, office support and other business support activities 821 Office administrative and support activities 82110 Combined office administrative service activities 82191 Photocopying service activities 82192 Duplicating and mailing activities 82199 Other specialized office support activities 8221 Call centers activities (Voice) 82211 Customer relationship management activities 82212 Sales and marketing (including telemarketing) activities 82219 Other call centers activities (voice), n.e.c. 82221 Finance and accounting activities 8222 Back-office operations activities (Non-voice) 82222 Human resources and training activities 82223 Administrative support activities 82224 Document processes activities 82225 Payroll maintenance and other transaction processing activities 82226 Medical transcription activities 82227 Legal services activities 82228 Supply chain management activities 82229 Other back office operations activities, n.e.c 8229 Other non-voice related activities

Default	Values for Manila Bay/Philippines
	82291 Engineering outsourcing activities 82292 Product development activities 82293 Publishing outsourcing activities 82294 Research and analysis activities 82295 Intellectual property research and documentation activities 82296 Security outsourcing activities 82229 Other non-voice related activities, n.e.c. 82300 Organization of conventions and trade shows 829 Business support service activities, n.e.c. 82910 Activities of collection agencies and credit bureaus 82920 Packaging activities 82990 Other business support service activities, n.e.c
R90 Creative, arts and entertainment activities	90 Creative, arts and entertainment activities 9000 Creative, arts and entertainment activities 90001 Concerts and opera or dance production 90002 Live theatrical presentations and other stage productions 90003 Individual artists activities 90004 Ancillary theatrical activities 90005 Art galleries 90006 Operation of concert and theatre halls and other arts facilities 90009 Other creative, arts and entertainment activities, n.e.c.
R92 Gambling and betting activities	92000 Gambling and betting activities
R93 Sports activities and amusement and recreation activities	93 Sports activities and amusement and recreation activities 931 Sports activities 93110 Operation of sports facilities 93120 Activities of sports clubs 93190 Other sports activities 932 Other amusement and recreation activities 93210 Activities of amusement parks and theme parks 93291 Operation of ballrooms, discotheques (discos) 93292 Operation of recreation parks, beaches, including renting of facilities such as bathhouses, lockers, chairs etc. 93299 Other amusement and recreation activities, n.e.c.
S95 Repair of computers and personal and household goods	95 Repair of computers and personal and household goods 951 Repair of computers and communications equipment 95110 Repair of computers and peripheral equipment 95120 Repair of communications equipment 952 Repair of personal and household goods 95210 Repair of consumer electronics 95221 Repair and servicing of household appliances 95222 Repair and servicing of home and garden equipment 95231 Repair of boots and shoes 95232 Repair of luggage and handbags 95290 Repair of personal and household goods, n.e.c.
S96 Other personal service activities	96 Other personal service activities 9610 Personal services for wellness, except sports activities 96101 Spa activities 96102 Steam and bath activities

Default		Values for Manila Bay/Philippines
		96103 Slendering and body building activities 96104 Beauty treatment and personal grooming activities 96105 Beauty parlor activities 96106 Barber shop activities 96109 Other personal services for wellness activities, n.e.c. 96210 Washing and dry cleaning of textile and fur products 96300 Funeral and related activities 96400 Domestic services 9690 Other personal service activities, n.e.c. 96901 Social escort service activities (excluding tourist guides) 96902 Pet boarding activities 96903 Astrological and spiritualists' activities 96904 Shoe shiners, porters, valet car parkers activities 96905 Coin-operated machines activities 96409 Miscellaneous service activities, n.e.c.
S97	Activities of households as employers of domestic personnel	97000 Activities of households as employers of domestic personnel
S98	Undifferentiated goods- and services-producing activities of private households for own use	98100 Undifferentiated goods-producing activities of private households for own use 98200 Undifferentiated services-producing activities of private households for own use
e) SEMJRINS: Type of service		
M72	Scientific research and development	72 Scientific research and development 72100 Research and experimental development on natural sciences and engineering 72101 Research and experimental development in natural sciences 72102 Research and experimental development in engineering and technology research and experimental development in health sciences 72104 Research and experimental development in agricultural sciences 72200 Research and experimental development on social sciences and humanities 72300 Research and experimental development in information technology
O84	Public administration and defence; compulsory social security	84 Public administration and defence; compulsory social security 8411 General public administration activities 84111 National executive and legislative administration 84112 Public administration, regional government 84113 Public administration, local government 84114 Public administration and supervision of financial and fiscal affairs; operation of taxation schemes 84115 Ancillary service activities for the Government as a whole 84119 General public administration activities, n.e.c. 84120 Regulation of the activities of providing health care, education, cultural services and other social services, excluding social security 84130 Regulation of and contribution to more efficient operation of businesses

Default	Values for Manila Bay/Philippines
	<p>842 Provision of services to the community as a whole 84210 Foreign affairs 84220 Defense activities 84230 Public order and safety activities 84300 Compulsory social security activities</p>
P85 Education	<p>85 Education 851 Pre-primary/pre-school education 85111 Public pre-primary/pre-school education 85111 Public pre-primary/pre-school education 85111 Public pre-primary/pre-school education 85122 Private pre-primary and primary education for children with special needs 852 Primary/elementary education 85211 Public primary/elementary education 85212 Private primary/elementary education 85221 Public primary/elementary education for children with special needs 85222 Private primary/elementary education for children with special needs 853 Secondary/High School Education 85311 Public general secondary education 85312 Private general secondary education 85321 Public general secondary education for children with special needs 85322 Private general secondary education for children with special needs 85331 Public technical and vocational secondary education 85332 Private technical and vocational secondary education 85341 Public technical and vocational secondary education for children with special needs 85342 Private technical and vocational secondary education for children with special needs 8540 Higher education 85401 Public higher education 85402 Private higher education 855 Other education services 85510 Sports and recreation education 85520 Cultural education 85590 Other education n.e.c. 85600 Educational support services</p>
Q86 Human health activities	<p>86 Human health activities 861 Hospital activities 86111 Public general hospitals activities 86112 Public sanatoria and other similar activities 86113 Public mental health and substance abuse hospitals activities 86119 Other public hospitals, sanatoria and other similar</p>

Default	Values for Manila Bay/Philippines
	activities, n.e.c 86121 Private general hospitals activities 86122 Private sanitarium and other similar activities 86123 Private mental health and substance abuse hospitals 86129 Other private hospitals, sanitarium and other similar activities, n.e.c 862 Medical and dental practice activities 86211 Public medical activities (including puericulture and laboratory services) 86212 Public dental and laboratory services 86219 Public medical, dental and other health activities, n.e.c. 86221 Private medical activities 86222 Private dental and laboratory services 86223 Child care clinics 86229 Private medical, dental and other health activities, n.e.c. 86900 Other human health activities
Q87 Residential care activities	87 Residential care activities 87100 Residential nursing care facilities 8720 Residential care activities for mental retardation, mental health and substance abuse 87201 Rehabilitation of people addicted to drugs or alcohol 87202 Caring for the mentally and physically handicapped 87300 Residential care activities for the elderly and disabled 87902 Caring for unwed mothers and children 87909 Other residential care activities, n.e.c.
Q88 Social work activities without accommodation	88 Social work activities without accommodation 8810 Social work activities without accommodation for the elderly and disabled 88101 Welfare and guidance counseling activities (elderly and disabled) 88101 Welfare and guidance counseling activities (elderly and disabled) 88103 Vocational rehabilitation and habilitation activities for disabled adults 8890 Other social work activities without accommodation, n.e.c. 88901 Welfare and guidance counseling activities for children and adolescents 88902 Child-care activities (including for the handicapped) 88903 Vocational rehabilitation and habilitation activities for unemployed persons 88904 Charitable activities 88909 Other social work activities without accommodation, n.e.c.
R91 Libraries, archives, museums and other cultural activities	91 Libraries, archives, museums and other cultural activities 910 Libraries, archives, museums and other cultural activities 91010 Library and archives activities 91020 Museums activities and operation of historical sites and buildings 91030 Botanical and zoological gardens and nature reserves activities

Default		Values for Manila Bay/Philippines
S94	Activities of membership organizations	94 Activities of membership organizations 941 Activities of business, employers and professional membership organizations 94110 Activities of business and employers membership organizations 94120 Activities of professional membership organizations 94200 Activities of trade unions 949 Activities of other membership organizations 94910 Activities of religious organizations 94920 Activities of political organizations 94990 Activities of other membership organizations, n.e.c.
U99	Activities of extraterritorial organizations and bodies	99 Activities of extraterritorial organizations and bodies 9901 Activities of extra-territorial organizations and bodies 99011 Foreign diplomatic missions 99012 International organizations 99019 International organizations and extra-territorial organizations and bodies, n.e.c. 99090 Activities of other international organizations

Default		Values for Manila Bay/Philippines
f) POLHWSV: Waste type		
<u>Hospital</u>		
Y1	Clinical wastes from medical care in hospitals, medical centers and clinics	A101 Wastes with cyanide
Y3	Waste from pharmaceuticals, drugs and medicines	B201 Sulfuric acid
		B202 Hydrochloric acid
		B203 Nitric acid
		B204 Phosphoric acid
		B205 Hydrofluoric acid
		B206 Mixture of sulfuric & hydrochloric acid
		B207 Other inorganic acid
		B208 Organic acid
		B299 Other acid wastes
		C301 Caustic soda
		C302 Potash
		C303 Alkaline cleaners
		C304 Ammonium hydroxide
		C305 Lime slurries
		C399 Other alkali wastes
		D401 Selenium and its compounds
		D402 Arsenic and its compounds
		D403 Barium and its compounds
		D404 Cadmium and its compounds
		D405 Chromium compounds
		D406 Lead compounds
		D407 Mercury and mercury compounds
		D499 Other wastes with inorganic chemicals
		E501 Oxidizing agents
		E502 Reducing agents
		G703 Halogenated organic solvents
		G704 Non-halogenated organic solvents
		I101 Waste oils
		J201 Containers previously containing toxic chemical substances
		K301 Solidified wastes and polymerized wastes
		K302 Chemically fixed wastes
		K303 Encapsulated wastes
		L401 Wastes with specific non-halogenated toxic organic chemicals
		L402 Ozone depleting substances
		L406 PCB wastes
		M501 Pathogenic or infectious wastes
		M502 Friable asbestos wastes
		M503 Pharmaceuticals and drugs

Default		Values for Manila Bay/Philippines	
<u>Household</u>			
Y46	Wastes collected from households	Y46	Wastes collected from households
Y47	Residues arising from the incineration of household wastes	Y47	Residues arising from the incineration of household wastes
<u>Institution</u>			
Y14	Wastes chemical substances arising from research and development or teaching activities which are not identified and/or are new and whose effects on man and/or the environment are not known	A101 Wastes with cyanide B201 Sulfuric acid B202 Hydrochloric acid B203 Nitric acid B204 Phosphoric acid B205 Hydrofluoric acid B206 Mixture of sulfuric & hydrochloric acid B207 Other inorganic acid B208 Organic acid B299 Other acid wastes C301 Caustic soda C302 Potash C303 Alkaline cleaners C304 Ammonium hydroxide C305 Lime slurries C399 Other alkali wastes D401 Selenium and its compounds D402 Arsenic and its compounds D403 Barium and its compounds D404 Cadmium and its compounds D405 Chromium compounds D406 Lead compounds D407 Mercury and mercury compounds D499 Other wastes with inorganic chemicals E501 Oxidizing agents E502 Reducing agents E503 Explosive and unstable chemicals G703 Halogenated organic solvents G704 Non-halogenated organic solvents I101 Waste oils J201 Containers previously containing toxic chemical substances K301 Solidified wastes and polymerized wastes K302 Chemically fixed wastes K303 Encapsulated wastes L401 Wastes with specific non-halogenated toxic organic chemicals L402 Ozone depleting substances L406 PCB wastes M502 Friable asbestos wastes M505 POPs (Persistent Organic Pollutants) pesticides	
<u>Agriculture/ Fishing</u>			
Y5	Wastes from the manufacture, formulation and use of wood preserving chemicals	A101 Wastes with cyanide B201 Sulfuric acid	
Y6	Waste from the production, formulation and	B202 Hydrochloric acid	

Default	Values for Manila Bay/Philippines
Y7 use of wood preserving chemicals	B203 Nitric acid
Y8 Wastes from heat treatment and tempering operations containing cyanides	B204 Phosphoric acid
Y9 Waste mineral oils unfit for their originally intended use	B205 Hydrofluoric acid
Y10 Waste oils/water, hydrocarbons/water mixtures, emulsions	B206 Mixture of sulfuric & hydrochloric acid
Y11 Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCBs) and/or polychloronited terphenyls (PCTs) and/or polybrominated biphenyls (PBBs)	B207 Other inorganic acid
Y12 Waste tarry residues arising from refining, distillation and any pyrolytic treatment	B208 Organic acid
Y13 Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquer, varnish	B299 Other acid wastes
Y15 Wastes of an explosive nature not subject to other legislation	C301Caustic soda
Y17 Wastes resulting from surface treatment of metals and plastics	C302 Potash
Wastes having as constituents the following:	C303Alkaline cleaners
Y19 Metal carbonyls	C304 Ammonium hydroxide
Y20 Beryllium; beryllium compounds	C399 Other alkali wastes
Y21 Hexavalent chromium compounds	D401 Selenium and its compounds
Y22 Copper compounds	D402 Arsenic and its compounds
Y23 Zinc compounds	D403 Barium and its compounds
Y24 Arsenic; arsenic compounds	D404 Cadmium and its compounds
Y25 Selenium; selenium compounds	D405 Chromium compounds
Y26 Cadmium; cadmium compounds	D406 Lead compounds
Y27 Antimony; antimony compounds	D407 Mercury and mercury compounds
Y28 Tellurium; tellurium compounds	D499 Other wastes with inorganic chemicals
Y29 Mercury; mercury compounds	E501Oxidizing agents
Y30 Thallium; thallium compounds	E502Reducing agents
Y31 Lead; lead compounds	E503 Explosive and unstable chemicals
Y32 Inorganic fluorine compounds excluding calcium fluoride	F601Aqueous based ink/paint/latex/adhesives
Y33 Inorganic cyanide	F602 Solvent based ink/paint/latex/adhesives
Y34 Acidic solutions or acids in solid form	F603 Inorganic pigments
Y35 Basic solutions or bases in solid form	F699 Other mixed aqueous-based wastes
Y36 Asbestos (dust or fibres)	G703 Halogenated organic solvents
Y37 Organic phosphorus compounds	G704 Non-halogenated organic solvents
Y38 Organic cyanides	H801 Animal/abattoir waste
Y39 Phenols; phenol compounds including chlorophenols	I101 Waste oils
Y40 Ethers	J201 Containers previously containing toxic chemical substances
Y41 Halogenated organic solvents	K301 Solidified wastes and polymerized wastes
Y42 Organic solvents excluding halogenated	K302 Chemically fixed wastes
	K303 Encapsulated wastes
	L401 Wastes with specific non-halogenated toxic organic chemicals
	L402 Ozone depleting substances
	L406 PCB wastes
	M501 Pathogenic or infectious wastes
	M502 Friable asbestos wastes
	M504 Pesticides
	M505 POPs (Persistent Organic Pollutants) pesticides

Default		Values for Manila Bay/Philippines
Y43	solvents Any congener of polychlorinated dibenzofuran	
Y44	Any congener of polychlorinated dibenzop-dioxin	
Y45	Organohalogen compounds other than substances	
<u>Industry</u>		
Y2	Wastes from the production and preparation of pharmaceutical products	A101 Wastes with cyanide
Y4	Wastes from the production, formulation and use of biocides and phytopharmaceuticals	B201 Sulfuric acid B202 Hydrochloric acid B203 Nitric acid B204 Phosphoric acid B205 Hydrofluoric acid B206 Mixture of sulfuric & hydrochloric acid B207 Other inorganic acid B208 Organic acid B299 Other acid wastes
Y5	Wastes from the manufacture, formulation and use of wood preserving chemicals	C301 Caustic soda C302 Potash C303 Alkaline cleaners C304 Ammonium hydroxide C305 Lime slurries
Y6	Waste from the production, formulation and use of wood preserving chemicals	C399 Other alkali wastes
Y7	Wastes from heat treatment and tempering operations containing cyanides	D401 Selenium and its compounds D402 Arsenic and its compounds D403 Barium and its compounds D404 Cadmium and its compounds D405 Chromium compounds D406 Lead compounds D407 Mercury and mercury compounds D499 Other wastes with inorganic chemicals
Y8	Waste mineral oils unfit for their originally intended use	E501 Oxidizing agents E502 Reducing agents E503 Explosive and unstable chemicals
Y9	Waste oils/water, hydrocarbons/water mixtures, emulsions	F601 Aqueous based inks/dyes/pigments/paint/latex/adhesives/organic sludge F602 Solvent based inks/dyes/pigments/paint/latex/adhesives/organic sludge F603 Inorganic pigments F610 Ink formulation F699 Other mixed aqueous-based wastes
Y10	Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCBs) and/or polychlorinated terphenyls (PCTs) and/or polybrominated biphenyls (PBBs)	G703 Halogenated organic solvents G704 Non-halogenated organic solvents
Y11	Waste tarry residues arising from refining, distillation and any pyrolytic treatment	H801 Animal/abattoir waste H802 Grease trap wastes from industrial or commercial premises
Y12	Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquer, varnish	I101 Waste oils
Y13	Wastes from production, formulation and use of resins, latex, plasticizers, glues, adhesives	J201 Containers previously containing toxic chemical substances K301 Solidified wastes and polymerized wastes
Y15	Wastes of an explosive nature not subject to other legislation	
Y16	Wastes from production, formulation and use of photographic chemicals and processing materials	
Y17	Wastes resulting from surface treatment of metals and plastics	
Y18	Residues arising from industrial waste disposal operations	
Wastes having as constituents the following:		
Y19	Metal carbonyls	
Y20	Beryllium; beryllium compounds	
Y21	Hexavalent chromium compounds	
Y22	Copper compounds	
Y23	Zinc compounds	

Default		Values for Manila Bay/Philippines
Y24	Arsenic; arsenic compounds	K302 Chemically fixed wastes
Y25	Selenium; selenium compounds	K303 Encapsulated wastes
Y26	Cadmium; cadmium compounds	L401 Wastes with specific non-halogenated toxic organic chemicals
Y27	Antimony; antimony compounds	L402 Ozone depleting substances
Y28	Tellurium; tellurium compounds	L406 PCB wastes
Y29	Mercury; mercury compounds	M501 Pathogenic or infectious wastes
Y30	Thallium; thallium compounds	M502 Friable asbestos wastes
Y31	Lead; lead compounds	M503 Pharmaceuticals and drugs
Y32	Inorganic fluorine compounds excluding calcium fluoride	M504 Pesticides
Y33	Inorganic cyanide	M505 POPs (Persistent Organic Pollutants) pesticides
Y34	Acidic solutions or acids in solid form	
Y35	Basic solutions or bases in solid form	
Y36	Asbestos (dust or fibres)	
Y37	Organic phosphorus compounds	
Y38	Organic cyanides	
Y39	Phenols; phenol compounds including chlorophenols	
Y40	Ethers	
Y41	Halogenated organic solvents	
Y42	Organic solvents excluding halogenated solvents	
Y43	Any congener of polychlorinated dibenzofuran	
Y44	Any congener of polychlorinated dibenzop-dioxin	
Y45	Organohalogen compounds other than substances	

Default	Values for Manila Bay/Philippines
g) POLHW: ISIC type	
<u>Hospital</u>	
Q86 Human health activities	86111 Public general hospitals activities 86112 Public sanitaria and other similar activities 86113 Public mental health and substance abuse hospitals activities 86119 Other public hospitals, sanitaria and other similar activities, n.e.c 86121 Private general hospitals activities 86122 Private sanitaria and other similar activities 86123 Private mental health and substance abuse hospitals 86129 Other private hospitals, sanitaria and other similar activities, n.e.c. 86211 Public medical activities (including puericulture and laboratory services) 86212 Public dental and laboratory services 86219 Public medical, dental and other health activities, n.e.c. 86221 Private medical activities 86222 Private dental and laboratory services 86223 Child care clinics 86229 Private medical, dental and other health activities, n.e.c. 86900 Other human health activities
<u>Agriculture</u>	
A02 Forestry, logging and related service activities A01 Agriculture, hunting and related service activities	0111 Growing of cereals (except rice and corn), leguminous crops and oil seed 0112 Growing of paddy rice 0113 Growing of corn, except young corn (vegetable) 01140 Growing of sugarcane including muscovado sugar-making in the farm 0115 Growing of tobacco 0116 Growing of fiber crops 0117 Growing of leafy and fruit bearing vegetables 0118 Growing of other vegetables, melons, roots and tubers 0119 Growing of other non-perennial crops 0121 Growing of banana 0122 Growing of pineapple 0123 Growing of mango 0124 Growing of papaya 01260 Growing of coconut, including copra-making, tuba gathering and coco-shell charcoal making in the farm 0127 Growing of beverage crops 0128 Growing of spices, aromatic, drug and pharmaceutical crops

Default	Values for Manila Bay/Philippines
	0129 Growing of other fruits and perennial crops 0130 Plant propagation 0141 Raising of cattle and buffaloes 0142 Raising of horses and other equines 0143 Dairy farming 0144 Raising of sheeps and goats 01450 Hog farming 0146 Chicken production (including operation chicken hatcheries) 0147 Raising of poultry (except chicken) 0148 Egg production 0149 Raising of other animals 0152 Planting, transplanting and other related activities 0153 Services to establish crops, promote their growth and protect them from pests and diseases 0154 Harvesting, threshing, grading, bailing and related services 0156 Support activities for animal production 0157 Post-harvest crop activities 0158 Seed processing for propagation 02110 Growing of timber forest species planting, replanting, transplanting, thinning and conserving of forest and timber tracts 02120 Operation of forest tree nurseries 0220 Logging 02400 Support services to forestry
A03 Fishery, aquaculture and collecting of other marine organisms and products	0311 Marine fishing 0312 Freshwater fishing 0321 Operation of freshwater fish pond, fish pens, cage and hatcheries 0322 Operation of marine or sea water fish tanks, pens, cage and hatcheries 03240 Prawn culture in brackish water 03280 Support service activities incidental to aquaculture 0329 Other aquaculture activities
<u>Institution/research</u>	
<u>E38 Waste collection, treatment and disposal activities; materials recovery</u>	38120 Collection of hazardous waste 38220 Treatment and disposal of hazardous waste 38300 Materials recovery
M72 Scientific research and development	72101 Research and experimental development in natural sciences 72102 Research and experimental development in engineering and technology research and experimental development in health sciences 72104 Research and experimental development in agricultural sciences 72200 Research and experimental development on social sciences and humanities

Default	Values for Manila Bay/Philippines
	72300 Research and experimental development in information technology
h) POLSW: Waste type	
<p><u>Households, Institutional and market sources</u> Glass Plastic Paper/cardboard Metals/scrap iron Yard wastes/biodegradeable</p> <p><u>Industrial sources</u> Glass Plastic Paper/cardboard Metals/scrap iron Yard wastes/biodegradeable Ashes (fly ash, bottom ash, boiler slag) Chemicals Textiles Others</p>	<p><u>Households, Institutional and market sources</u></p> <p>PAPER Cardboard/paper bags Newspaper Office paper/high grade Mixed paper</p> <p>GLASS Bottles and containers Other/composite glasses</p> <p>METALS Tin/steel cans Other ferrous Aluminum cans Other non-ferrous Other/composite metals</p> <p>PLASTIC Polyethylene terephthalate or PET (soft drink/mineral water bottle) High-Density Polyethylene or HDPE (shampoo bottles/food crates) Low-Density Polyethylene or LDPE (e.g. clear plastic bags) Polyvinyl chloride or PVC (e.g. floor tiles, water pipes, molded chair/table) Polypropylene or PP (e.g. bottle cap, egg tray, waste basket) Polystyrene or PS (e.g. styropor and styrofoam) Other unclassified types of plastic (some also used as food containers) Diapers Other/composite plastic</p> <p>OTHER ORGANIC Kitchen/food waste Yard/Landscape (except institutional and market) Wood (except institutional) Textiles (except institutional) Leather (except institutional) Rubber (except institutional) Animal remains (except institutional and market) Other/composite organic wastes</p> <p>OTHER INORGANIC Rock/concrete/brick (except institutional) Ceramic/stone (except institutional) Soil/sand (except institutional and market) Ash/charcoal (except institutional) Other/composite inorganic wastes</p>

Default	Values for Manila Bay/Philippines
	<p>HAZARDOUS Paint Small Batteries Other/composite hazardous wastes</p> <p>MIXED WASTES</p> <p><u>Industrial</u></p> <p>PAPER Cardboard/paper bags Newspaper Office paper/high grade Mixed paper</p> <p>GLASS Bottles and containers Other/composite glass</p> <p>METALS Tin/steel cans Other ferrous Aluminum cans Other non-ferrous Other/composite metals</p> <p>PLASTIC Polyethelene terephthalate or PET (soft drink/mineral water bottle) High-Density Polyethelene or HDPE (shampoo bottles/food crates) Low-Density Polyethelene or LDPE (e.g. clear plastic bags) Polyvinyl chloride or PVC (e.g. floor tiles, water pipes, molded chair/table) Polypropylene or PP (e.g. bottle cap, egg tray, waste basket) Polystyrene or PS (e.g. styropor and styrofoam) Other unclassified types of plastic (some also used as food containers) Other/composite plastic</p> <p>OTHER ORGANIC Yard/Landscape Wood Textiles Leather Tires Rubber Other/Composite organic wastes</p> <p>OTHER INORGANIC Rock/concrete/brick Ceramic/stone Ash/charcoal Other/composite inorganic waste</p> <p>HAZARDOUS</p>

Default	Values for Manila Bay/Philippines
	Paint Oil/Oil Filters Other/Composite SPECIAL MIXED WASTES
i) HAZARDS and HAZARDAR: Hazard type	
Flood Landslides Earthquake Algal bloom Prolong Drought Volcanic eruption Groundwater contamination Fishkill Other hazards	<u>Natural</u> Typhoon/storm surge Flood Drought/El Niño Volcanic eruption/lahar Earthquake/tsunami Liquefaction Landslides/mudflow Other natural hazards <u>Human-made</u> Armed conflict Development aggression Fire Red tide/Algal bloom Epidemic Pest infestation Pollution (fish kill, toxic waste, etc.) Other human-made hazards

Annex 5. Status of data records in the Manila Bay IIMS.

Data Category	Class	Subclass	Number of Records	
Regional Codes, Data Codes and Geospatial Data	Regions Sites	Regional table	11	
		IIMS Site table	1	
			Provinces/Country	9
			Cities and Municipalities	179
			Barangays	4922
		Watershed	Watershed Area	12
			Subwatershed	34
		Bodies of Water	Bodies of Water	386
		Geospatial Data	Location Segments	28
			Polygons and Lines	75
		Maps	Maps	9
	Biological and Bioresource Data	Fish Resources	Fish Species Inventory	2751
			Coral Species/Genera Inventory	67
Wetlands		Wetlands Inventory	3	
		Wetlands Survey Data	6	
		Wetlands Flora Inventory	841	
		Wetlands Fauna Inventory	69	
Forestry		Forest Trees Inventory	2395	
		Other Flora Inventory	77	
		Fauna Inventory	132	
Social and Economic Data		Fisheries	Fishers Inventory	25
	Fishing Gear Inventory		2	
			Fishing Vessel/Boat Inventory	11
		Aquaculture	Aquaculture Site Inventory	20
		Agriculture	Agriculture Crop Farm Inventory	112
			Agriculture Crop Production	1897
			Poultry and Livestock Farm Inventory	781
			Poultry and Livestock Production	414
		Mining	Mining & Quarrying Sector Inventory	166
			Mining & Quarrying Sector Production	8
		Port	Port Inventory	18
			Shipping Activity by Cargo	12
			Shipping Activity Vessel	24
			Terminal Inventory	15
			Port Reception Facilities Profile	1
		Industries	Manufacturing Sector Inventory	3356
	Tourism	Tourism Inventory	16	
		Tourist Volume and Revenues	14	
		Tourist Profile	81	

Data Category	Class	Subclass	Number of Records
	Commercial/Institutional	Commercial Establishment Inventory	25
		Major Institution Inventory	7
	Reclamation	Reclamation Project	3
Demographic Data	Population	Census	4538
		Education	275
		Waterborne Diseases	1
		Religion	713
		Vital Statistics	48
Governance Data	Government	Basic Information	
		Government Agency	12
		Government Agency (Project)	1
		Government Agency (Project-Area Covered)	9
		Government Agency (Resources - Personnel)	1
		Government Agency (Resources - Budget)	1
		Government Agency (Legislation)	1
		Government Agency (Oil Spill - Capacity)	3
		Coordinating Mechanism	1
		Coordinating Mechanism (Legal Basis)	1
	Sectors	Sector	42
Pollution Sources Data	Land-based Sources	Industry Inventory	
		Municipal Wastewater Discharge Inventory	23
		Municipal Wastewater Pollution Profile	2
		Sludge Treatment & Disposal System	11
		Solid Waste	48
	Water-based Sources	Oil Type	
		Oil Spills	9
Water Resources	Infrastructure	Water Resources Infrastructure	129
Environment Quality	Water Quality Data	Monitoring Station Inventory	97
		Monitoring Station Observation Times	1733
		Physico-chemical	1407
		Metals	100
		Criteria/Standard (physico-chemical)	9
		Criteria/Standard (metals)	9
	Air Quality Data	Airshed	1
		Municipalities/Cities Covered	1
		Air Quality Station	8
		Observation	4

Data Category	Class	Subclass	Number of Records
Physiographic Data	Oceanographic Data	Tidal Monitoring Station Inventory	
Natural and Human-made Hazards	Hazards	Hazards Data	
Natural and Cultural Heritage	Natural Heritage	Natural Heritage	47
		Natural Heritage (Municipality Covered)	20
	Cultural Heritage	Cultural Heritage	171
		Cultural Heritage (Municipality Covered)	56