

**The Study for Mapping Policy and Topographic Mapping
for Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject		PROJECT UPDATE	
Date		July 13, 2007	Time: 2:00 pm
Place		OFFICE OF THE DIRECTOR	
Participants	STUDY TEAM	1	Yutaka KOKUFU
		2	Kiyofumi TAMARI
		3	Nobuhiro SATA
		4	
		5	
		6	
	NAMRIA	1	Dir. Jose Galo Isada, Jr.
		2	Asst. Randy Vicente
		3	Ofelia Castro
		4	Joaquin Borja
5			

AGENDA:

1. Marginal Information Style and Legend.
2. BM Field Reconnaissance ✓
3. Contour lines data (Existing contours) ✓
4. Schedule of Field Compilation Work (4 sheets) Finalizing Field Compilation Data (8 sheets).
5. Training Schedule of Digital Editing and NAMRIA Participants ✓
6. Schedule of Annotations confirming. ✓
7. Others (Monitor)

HIGHLIGHTS ON JST MEETING:

July 13, 2007

1. JST and NAMRIA will discuss which symbol to adopt regarding the Marginal Information Style and Legend on Wednesday, July 18, 2007 at 1:00 pm. Mr. Jack Borja will evaluate the marginal information.
2. The relevant data on Benchmarks (BMs) that are required in the Project was already discussed with CGSD. The CGSD already provided a copy of report to Mr. Tamari.
3. The contour line data, the field compilation of 4 sheets will start on July 23, 2007 including the finalization of 8 sheets.
4. The JST have already the data on the 4 sheets and NAMRIA will prepare a comparative table for this on Tuesday, July 17, 2007. Mr. Jack Borja will evaluate and make the initial comparison in Dagupan. Ms. Ofelia Castro explained the activities covering the 8 sheets. According to her, the 4 sheets can be submitted to Mr. Tamari today, July 13, 2007.
5. The training schedule of Digital Editing will start on July 16, 2007 to August 10, 2007. Mr. Tamari requested for the list of participants for the training. Only 2 persons can be trained using AutoCad. Mr. Jack Borja will provide the names.
6. The JST is requesting NEDA Region 1 and 3 coordinators to coordinate with LGU's who will validate annotations and boundaries. The JST will prepare the necessary map sheets for distribution to the stake holders. The duration for validation will be 2 weeks.
7. The JST already ordered the computer monitor in the US for use in the Socetset training and will wait for delivery.

Confirmed by:

Name

Signature

Date

Yutaka KOKUFU
Kiyofumi TAMARI
Nobuhiko SATA
Dir. Jose Galo Isada, Jr.
Asst. Dir. Randolph Vicente
Ofelia Castro, Chief Photogrammetry Div.
Joaquin Borja, OIC-Chief Carto Div



1 August 2007
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**HAND OVER OF PRELIMINARY MAPS
AND
BRIEFING ON MAP VALIDATION**

of the

TECHNICAL COORDINATING COMMITTEE

for

**"The Study for Mapping Policy and Topographic Mapping for the
Integrated National Development Plan"**

9:00 AM 15 August 2007
Poinsettia Hall, Northern Philippine-Hilaga
City of San Fernando, Pampanga

TECHNICAL COORDINATING COMMITTEE MEETING

**HAND OVER OF PRELIMINARY MAPS
AND BRIEFING ON MAP VALIDATION
FOR**

**"THE STUDY FOR MAPPING POLICY AND TOPOGRAPHIC MAPPING
FOR INTEGRATED NATIONAL DEVELOPMENT PLAN"**

Poinsettia Hall, Northern Philippine-Hilaga
Jose Abad Santos Ave., San Jose, City of San Fernando, Pampanga
9:00 AM August 15, 2007

	NAME	OFFICE
1	Ofelia Conag	DENR-PENRO Bulacan
2	Rolly Mulato	DENR-FMS-Region III
3	Ricardo De Dios	DENR-LMS-Region III
4	Ernesto T. Marucut	DENR-LMS-Region III
5	Glenn Tungul	DENR-Region III
6	Baldwin Peneyra	MGB-Region III
7	Fer Limbitco	CPDO-City of San Fernando
8	Ferdinand S. Remo	CPDO-City of San Fernando
9	Marisol Mandadero	CPDO-Olongapo City
10	Emerlito S. Mercado	CPDO-Angeles City
11	Eden S. Mendoza	CPDO-Angeles City
12	Randy Po	PPDO-Bulacan
13	Antonio Paco, Jr.	PPDO-Bulacan
14	Wilfredo Manabat	PPDO-Pampanga
15	Ludivina Banzon	PPDO-Bataan
16	Antonio Larion	PPDO-Bataan
17	Roberto Ventura	PPDO-Tarlac
18	Ronald Geronimo	PPDO-Tarlac
19	Emil Ferrer	PPDO-Nueva Ecija
20	Fiordeliza Legaspi	PPDO-Nueva Ecija
21	Tes Ascaño	PPDO-Nueva Ecija
22	Teodoro Senadrin	PPDO-Zambales
23	Hermel Sotiangco	Don Honorio Ventura College of Science and Technology
24	Remigio Mercado	Regional Director, NEDA-Region III
25	Marciano Franco	NEDA-Region III
26	Adoracion Mendoza	NEDA-Region III
27	Renato Pineda	NEDA-Region III
28	Agustin Mendoza	NEDA-Region III
29	Consuelo Tessa Sibal	NEDA-Region III
30	Rodrigo David	NEDA-Region III
31	Rowena David	NEDA-Region III
32	Greg Pineda	NEDA-Region III
33	Antonette Dungca	NEDA-Region III
34	Evelyn Galang	NEDA-Region III
35	Peter Nilo Tingco	Senior Deputy Administrator, NAMRIA
36	Randolf S. Vicente	Asst Director, NAMRIA
37	Joaquin Borja, Jr.	NAMRIA
38	Jose Villanueva	NAMRIA
39	Brian dela Cruz	NAMRIA
40	Joselito Eugenio	NAMRIA
41	Rogelio Dais Jr.	NAMRIA
42	Imelda Cabatay	NAMRIA
43	Mary Jane Montemor	NAMRIA
44	Donmarl Camua	NAMRIA
45	Ferdinand Rabago	NAMRIA

*"The Study on Mapping Policy and Topographic Mapping for
Integrated National Development"*
Hand Over of Preliminary Maps and Briefing on Map Validation
Poinsettia Hall, Northern Philippines - Hillaga
City of San Fernando, Pampanga
August 15, 2007

ACTIVITY REPORT

The activity generally aims to formally hand-over the preliminary maps covering the Provinces of Pampanga, Bataan, Tarlac, Bulacan, Zambales and Nueva Ecija which are covered in the JICA assisted Study on Mapping Policy and Topographic Mapping. The event includes the briefing of the participants on map validation. It was hosted by NAMRIA in coordination with NEDA Region III and participated in by the members of the Technical Coordinating Committee (TCC) in Central Luzon. A total of 33 TCC members coming from City and Provincial Planning Offices of Region III, PENRO - Bulacan, DENR Regional Offices (LMS and MGB), and NEDA attended the event.

Highlights of the Activity



Mr. Remigo A. Mercado, Regional Director of NEDA Region III delivering his Welcome Remarks.

Opening Ceremonies

Representatives of NEDA Region III lead the invocation and the singing of the National Anthem.

Mr. Remigo A. Mercado, Regional Director of NEDA Region III warmly welcomed the participants. In his speech, Mr. Mercado stressed the importance of the Study in Disaster Risk Management. He urged the participants to ride on the line of thinking of the President that is to "get more funding for mapping initiatives". Sound and responsive plans can't be attained without reliable information. Mr. Mercado exemplified PHIVOLCS during the time then of Mr. Rey Punongbayan that

earned support from various sources because of good leadership. Mr. Mercado also mentioned that PAG-ASA was also getting support due to timely needs. He ended his speech by encouraging the participants to actively participate and to produce quality outputs from this Study.

Presentation

Immediately after Mr. Mercado's welcome message, short presentations from NAMRIA representatives followed. Mr. Joaquin Borja Jr., OIC Cartography Division of NAMRIA discussed the background of the JICA assisted Study and its status. Mr. Jose Villanueva, Field Team Leader briefed the participants regarding the process of field validation required by the Study.



Mr. Joaquin Borja discussing the status of the Study.



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Mr. Jose Villanueva briefing the participants regarding the process of map validation.

Mr. Villanueva stressed the following features that the TCC members should validate:

1. Location and spelling of geographic names
2. Placement of map symbols
3. Vegetation
4. Identification of irrigation canals
5. Municipal boundaries
6. Road classifications

He mentioned that the participants will be given one (1) month to complete the validation works. This is to allow NAMRIA to completely update the said maps.

Hand Over of Preliminary Maps

After the presentations, the hand over of the preliminary map sheets commenced. Each provinces and agency were called one by one. Mr. Randolph Vicente, Assistant Director, Mapping Department of NAMRIA and Mr. Remigo A. Mercado, Regional Director of NEDA Region III facilitated in the distribution of the said preliminary maps.



Adir. Randolph Vicente and Mr. Remigo Mercado handed over the preliminary maps covering the Province of Bulacan to the representative of PPDO-Bulacan. Ms. Imelda Catabay and Mr. Jacquin Borja, Jr. assisted also in the said handover.



Mr. Joselito Eugenio, Project Team Leader of NAMRIA, explaining to the participants from Pampanga their map sheets

The participants were given enough time to review their set of maps. A Field Team Leader from NAMRIA was assigned to each province to assist in the initial assessment and to answer queries from the participants.



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Open Forum

After the given period, Ms. Mary Jane Montemor, Project Secretariat of NAMRIA moderated the Open Forum. Ms. Montemor solicited questions, comments and suggestions from the participants.

The discussion in the Open Forum involved the following major issues:

1. Inconsistencies between the map and its legend and features; and
2. Clarification on the process of representing political boundaries with disputes on the map



Ms. Mary Jane Montemor and Adir. Randolf Vicente listening to the concerns of the participants during the Open Forum.

The Map and It's Legend and Features

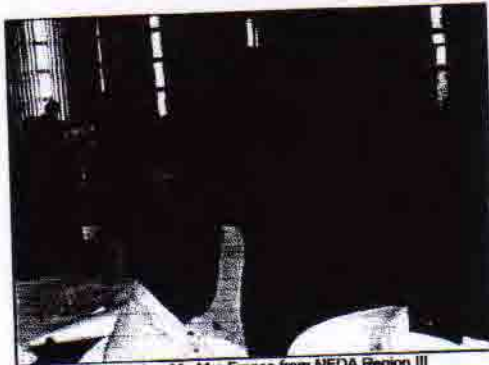
Some of the participants expressed their concerns regarding the features on the preliminary maps provided. These were:

1. Location of Barangay Names

An example of this was the concern of Mr. Emerlito Mercado from Pampanga Group regarding Brgy. Pulung-Bulu. The said barangay can be found in the City of San Fernando and also in Angeles City. Moreover, the said names were located outside the bounds of their respective municipality.

2. Confusion in Map Symbols Used

Mr. Randy Po, a representative from PPDO-Bulacan cited observations regarding the symbols used in the provided maps. These were: (a) occurrence of several boxes with red shade symbols depicting power lines on areas supposedly do not have power lines, (b) red colored cross in the legend appeared to be colored orange on the map, (c) some symbol depicting churches appeared as a cross on the map not a box with a cross, (d) boundary lines that looked like roads. It was explained that problems in printing might caused the said inconsistencies.



All heads turned as Mr. Mar Franco from NEDA Region III shared his sentiments in the Open Forum

Mr. Mar Franco from NEDA Region III cited observations regarding the symbolization used. One observation is the Mega Dike which seemed exaggerated as compared to the North Luzon Expressway in terms of width and line thickness. Another observation was the streets/inner roads had thicker lines than National Highways.

3. Inclusion of Nuisance, Gangs and Other Listed Elements



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A representative from NEDA, requested that a symbol that will depict livestock farms be included in the current map legend to help them in land use planning. Also, requested were information regarding the month and year (time frame) of the references (satellite images, aerial photo etc.) used in the said preliminary maps in order to properly indicate the appropriate land use classification of a certain area i.e. a swampy area maybe different during summer season.

4. Classification of a "Mine"

A representative from DENR – MGB Region III inquired on how they will classify a "mine" in the map. A mine may refer to mining concessions, quarries or indicator of sand or mineralized areas.

Political Boundaries and Disputes

Another debatable issue discussed in the Open Forum was about political boundaries, particularly on areas with disputes. Mr. Teodoro Senadrin of PPDO-Zambales cited their concern regarding on to how to indicate disputed political boundaries on the map.

A representative from LMS Region 3 proposed that they will identify areas with disputed political boundaries based on their existing records and they will indicate on the map "versus". An example was the case of Subic and Olongapo, thus "Olongapo vs. Subic" shall be written. Adir. Vicente pointed out that such approach might complicate the maps. He mentioned that median dashed lines may be an option in such a case but it should not be mistakenly read as a separate feature rather than a polygon representing a boundary.



Mr. Emil Ferrer from Nueva Ecija airing his concern during the Open Forum.

Mr. Emil Ferrer of PPDO-Nueva Ecija mentioned that the plotting of political boundaries should be assigned to the LMS since they are the authority to issue certifications as to the land area of every municipality and province. This was seconded Mr. Po from PPDO-Bulacan and stressed that the identification of disputed areas should come from an official agency such as LMS.

Resolutions and Agreements

The Open Forum yielded the following recommendations and agreements between NAMRIA and the TCC members. These were:

1. All TCC members should given a copy of the corrected maps for their final correction.
2. All TCC members will be provided by NAMRIA with 1:25,000 scaled map sheets covering their respective provinces.



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3. All TCC members will be provided by NAMRIA with the legend description used in the Study.
4. All TCC members will be provided by NAMRIA hard copies and digital copies of the final maps right after the Study.
5. The validation and plotting of political boundaries shall be handled by the DENR – Land Management Service (LMS).
6. NAMRIA will closely coordinate with DENR-LMS and MGB with regards to political boundaries and mining classification.
7. NAMRIA will try to conduct further study regarding the symbolizations for disputed political boundary, livestock farms and other land use elements, and mining classifications.

Closing and Awarding of Certificates

After open forum, Adir. Vicente was then called for a closing speech. He stressed the importance of the involvement of the LGUs in the Study for its part of a partnership in generating information for physical planning from national level down to municipal levels. He mentioned also that the request to associate field or office validation was made to make datasets complete, consistent and accurate if not precise in order to have reliable base information for planning, decision making and policy formulation.



Adir. Vicente delivering his Closing Remarks



Mr. Peter Nilo Tiangco, PhD, Sr. Deputy Administrator of NAMRIA with assistance from Mr. Mercado and Adir. Vicente distributing certificates of participation.

Adir. Vicente reiterated that the principles of cartography, particularly the concept of generalization, should be considered. Moreover, Adir. Vicente stressed the need to capacitate human resource at provincial levels in the preparation of maps since there are clamors for GIS development. He assured the participants that the map sheets can be reproduced but for validation purposes the provided maps should suffice. Moreover, the participants were promised to be provided with the enhanced map after the project.

Adir. Vicente ended his remark by thanking the participants for their enthusiasm and for the support they extended to NAMRIA staff doing their field validation in their respective provinces.

The event formally ended with the distribution of certificates of participation to the 33 participants. This was lead by Sr. Deputy Administrator Peter Nilo Tiangco, PhD of NAMRIA.



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**The Study for Mapping Policy and Topographic Mapping
for Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject		Update on the 1:50,000 scale topographic maps	
Date		September 27, 2007	Time: 16:30
Place		Office of the Director	
Participants	Study Team	1	Yutaka KOKUFU
		2	Kiyofumi TAMARI
		3	Kozo YAMAYA
	NAMRIA	1	Asst. Randolf Vicente
		2	Joaquin Borja,
		3	Mary Jane Montemor
		4	Rogelio Dais

AGENDA:

Update on the following issues and concerns regarding 1:50,000 scale topographic maps:

1. Specifications of extraction rules for digital plotting data
The detail table of the specifications is shown in Appendix. The data format should be DXF ASCII format version 12 or its equivalent. The data type must use only Point, Line, Polyline and Single line text.
2. Specifications of maps symbolization for digital data
The detail table of the specifications is shown in Appendix hard copy of digital files which is inside the folder named "Map_symbol_oct_2007". The data format should be AI format for Adobe Illustrator version 10 or its equivalent.
3. Specifications of marginal information
The details are shown on the hard copy of the file named " margrinal_info_50000".

STATUS / RECOMMENDATION:

1. Mr. Tamari suggested that specifications of extraction rules for digital plotting data should be based on NAMRIA standard and will not limit only on the DXF format version.
2. The JICA Study Team submitted to NAMRIA the specifications of map symbolization for final checking and editing of symbols, font size, and spelling.
3. According to Mr. Kokufu, the map symbolization will serve as the basis or reference for NAMRIA in the production of 1:50,000 topographic maps. And these map symbols will be agreed between JST and NAMRIA, and both parties will sign on the map symbolization manual.
4. Mr. Randolph Vicente suggested to change the triangulation control point to geodetic control point, however, the JST recommended and prefer to use the triangulation control point as the International Standard.
5. Mr. Randolph Vicente also suggested to JST to use Land Cover rather than Land use and the same should be included in the map symbolization manual.
6. JST and NAMRIA agreed to finalize the editing on September 28, 2007.
7. According to Mr. Kokufu, the accuracy evaluation will be included in the final report.
8. The marginal information was previously discussed by Mr. Yamaya and Mr. Dais, both agreed to use Caps-small for barangays and all capital to cities.

Confirmed by: Name	Signature	Date
Yutaka KOKUFU		Oct 2, 2007
Kiyofumi TAMARI		
Kozo YAMAYA		
Asst. Dir. Randolph Vicente		
Joaquin Borja		
Rogelio Dais		
Mary Jane Montemor		

**HAND OVER OF PRELIMINARY MAPS
AND
BRIEFING ON MAP VALIDATION**

of the

TECHNICAL COORDINATING COMMITTEE

for

"The Study for Mapping Policy and Topographic Mapping for the
Integrated National Development"

1:00 PM 28 September 2007
Hotel Consuelo Resort and Chinese Restaurant
Lingayen, Pangasinan

**“The Study for Mapping Policy and Topographic Mapping for
Integrated National Development Plan”**

DATE : 1:00 PM, 28 September 2007 (Thursday)
 VENUE : **Hotel Consuelo Resort and Chinese Restaurant**
 Alvear St., Corner Maramba Blvd., Lingayen, Pangasinan

PROGRAM OF ACTIVITIES

10:30 AM	Courtesy Call	Hon. Amado T. Espino, Jr. Provincial Governor of Pangasinan
12:00 NN	Lunch	
1:00 PM	Program Proper	
	A. Invocation	PPDO-Pangasinan
	B. National Anthem	Imelda P. Cabatay Engineer II, Field Team Leader.
	C. Welcome Remarks	Leonardo Quito, Jr. Regional Director, NEDA – Region I
	D. Messages	Mr. Yutaka Kokufu JICA Team Leader
		USec Diony A Ventura, MNSA Administrator, NAMRIA
		Honorable Amado T. Espino, Jr. Governor, Province of Pangasinan
	E. Presentation	
	F.1 Background and Status of the Project	Joaquin B. Borja, Jr. OIC, Cartography Division
	F.2 Briefing on Map Validation	Jose R. Villanueva Engineer II, Field Team Leader
	F. Hand-Over of Preliminary Maps	Facilitator: Jose Galo P. Isada, Jr. Director, Mapping Department
	G. Open Forum	Moderator: Mary Jane R. Montemor
	H. Recessional	

Engr. Donmarl D. Camua
Master of Ceremony

TECHNICAL COORDINATING COMMITTEE MEETING

**HAND OVER OF PRELIMINARY MAPS
AND BRIEFING ON MAP VALIDATION
FOR**

**"THE STUDY FOR MAPPING POLICY AND TOPOGRAPHIC MAPPING
FOR INTEGRATED NATIONAL DEVELOPMENT PLAN"
REGION I**

Hotel Consuelo Resort and Chinese Restaurant
Alvear St., corner Maramba Blvd., Lingayen, Pangasinan
1:00 PM September 28, 2007

	NAME	OFFICE
1	Rafael Baraan	Provincial Administrator, Pangasinan
2	Nestor Quiambao	Provincial Assessor, Pangasinan
3	Constancio Arciaga	DENR-FMS Region I
4	Santiago Santiago, Jr.	FNSP, DENR-LMS Region I
5	Cresencio Florendo	FNSP, DENR-LMS Region I
6	Joel Eden	DENR-LMS Region I
7	Reynaldo Ganuelas	DPWH-Region I
8	Edilberto Carabbacan	DPWH-Region I
9	Amalia Menzi	MGB-Region I
10	Ruben Soriano	MGB-Region I
11	Nestor Rillon	NEDA-Region I
12	Jonathan Viernes	NEDA-Region I
13	Benita Pizarro	PPDO-Pangasinan
14	Armando Aquino	PPDO-Pangasinan
15	Bergie Caoile	PPDO-Pangasinan
16	Conrado Malicdem	PEO, Pangasinan
17	Christopher Oliveros	PEO, Pangasinan
18	Mr. Yutaka Kokufu	JICA Team Leader
19	Diony Ventura	Administrator, NAMRIA
20	Jose Galo Isada, Jr.	Director, Mapping Department
21	Randolf Vicente	Asst. Director, Mapping Department
22	Joaquin Borja, Jr.	OIC, Cartography Division
23	Nick Parayno	NAMRIA
24	Bert Almonte	NAMRIA
25	Jose Villanueva	NAMRIA
26	Imelda Cabatay	NAMRIA
27	Joselito Eugenio	NAMRIA
28	Mary Jane Montemor	NAMRIA
29	Donmarl Camua	NAMRIA
30	Ranulfo Hones	NAMRIA
31	Joel Panis	NAMRIA
32	Conrado Labrador	NAMRIA
33	Allyn Isada	NAMRIA
34	Ely Calucag	NAMRIA
35	Joe Gipit	NAMRIA

TRAVEL REPORT

REFERENCES

1. Special Order no. 253 dated 20 September 2007 (attached)
2. Travel Order no. 451 (attached)

BACKGROUND

As part of the Development of Promotion Mechanism for Topographic Maps and Associated Products Component of the JICA-assisted Study entitled "The Study for Mapping and Topographic Mapping for the Integrated National Development Plan in the Republic of the Philippines", the Mapping Department convened the Technical Coordinating Committee (TCC) in Region I to formally distribute the preliminary maps covering the Province of Pangasinan and to brief the participants regarding the mechanics of map validation.

The said hand-over was participated in by 20 TCC members from the Provincial Administrator's Office and Provincial Planning and Development Office of Pangasinan, Department of Environment and Natural Resources (DENR) Regional Offices (Land Management Services and Forest Management Services), Mines and Geosciences Bureau (MGB), Department and Public Works and Highways (DPWH), and National Economic and Development Authority (NEDA) in Region I. The activity was held at the Hotel Consuelo and Chinese Restaurant, Alvear St. corner Maramba Blvd., Lingayen, Pangasinan last 20 September 2007.

ACTIVITIES

In preparation for the activity, NAMRIA took charge in the preparation of the event venue, arrangements pertaining to the equipment to be used, the meals to be served, and the program to be conducted. Moreover, necessary materials and documents were prepared. These include the printing of 48 working map sheets for validation arranged according to agency, preparation of maps to be presented to the Provincial Government of Pangasinan, preparation and printing of banners and streamers, of certificates and preparation of kits and visual presentations.

A Field Validation Team composed of Project Team Leaders, Jose Villanueva and Imelda Cabatay left last 14 September 2007 to conduct final field validation and served as the "advance party". The "Main Party" left last 20 September 2007 around 6:00AM and proceeded directly to the venue for the final preparations.

The program started around 1:00PM when all the invited TCC members arrived. Ms. Bergie S. Caoile, Project Development Officer I, PPDO – Pangasinan led the invocation, while Engr. Imelda P. Cabatay, Project Team Leader from NAMRIA led the singing of the National Anthem. Mr. Nestor G. Rillon, Chief, Knowledge Management Division, NEDA – Region I delivered his welcome remarks.

Short messages were solicited by Engr. Donmarl D. Camua, Program Emcee from Mr. Yutaka Kokufu, JICA Study Team Leader; Usec Diony A. Ventura, MNSA, Administrator; and Mr. Rafael J. Baraan, Provincial Administrator of Pangasinan.

After the messages, NAMRIA, led by Administrator Diony A Ventura together with the Director of the Mapping Department, Jose Galo P. Isada, Jr., the JICA Team Leader, Mr. Yutaka Kokufu and the Assistant Director of the Mapping Department, Mr. Randolph Vicente, presented the Maps of Pangasinan to the Provincial Government of Pangasinan, represented by the Provincial Administrator, Mr. Rafael Baraan. These maps include four (4) Preliminary Topographic Maps at scale 1:50,000 from the JICA Project, a copy of the Philippine Map at scale 1:1,500,000, copies of the Administrative Map and Nautical Chart of Pangasinan, a framed Orthoimage Map of Pangasinan, a framed NAMRIA Centennial Calendar, and one (1) set GIS Maps of Pangasinan for disaster risk management.

Short presentations from NAMRIA representatives immediately followed. Mr. Joaquin Borja Jr., OIC Cartography Division of Mapping Department, discussed the background of the JICA assisted Study and its status. Mr. Jose Villanueva, Field Team Leader, briefed the participants regarding the process of field validation required by the Study.

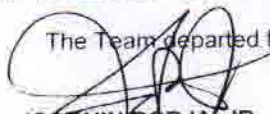
After the presentations, the hand-over of the preliminary map sheets commenced. When all participants received their respective maps, enough time were given to the participants for assessment. An Open Forum was moderated by Engr. Randolph S. Vicente, Assistant Director, Mapping Department commenced right after the assessment of the maps.

Some of the concerns aired in the Open Forum involved the following:

1. request for digital copies of the preliminary map sheets
2. inconsistencies of the standards used in the JICA legend with the existing DPWH road standards.

The TCC members were requested to finish the validation on or before 05 October 2007. The event ended around 3:00PM.

The Team departed for Manila on the 21 September 2007.


JOAQUIN BORJA, JR.


JOSE VILLANUEVA


JOSELITO EUGENIO


DONMARL CAMUA


RANDOLF S. VICENTE
Asst. Director, Mapping Department.


IMELDA CABATAY


MARY JANE MONTEMOR


ELIAS CALUCAG


ALLYN ISADA

Noted:


JOSE GALO P. ISADA, JR.
Director, Mapping Department

The Study for Mapping Policy and Topographic Mapping for Integrated National Development Plan in the Republic of the Philippines Meeting Record

Subject		PROJECT STATUS	
Date		November 6, 2007	Time : 11:00 am
Place		Office of the Assistant Director	
Participants	Study Team	1	Yutaka KOKUFU, JICA Project Team Leader
		2	Nobuhiro SATA, JICA Team Member
		3	Elmer Palmario, JICA Support Staff
	NAMRIA	1	Randolf Vicente, Asst. Director
		2	Ofelia Castro, Chief Photogrammetry Division
		3	Joaquin Borja, Chief Cartography Division
		4	Nicardro Parayno, Chief Aerial Division
		5	Reynaldo Manuel, Chief Printing Division

AGENDA:






1. Specifications of Topographic Mapping at Scale of 1:50,000
2. Specifications for Symbolization of Topographic Map 1:50,000
3. Magnetic North
4. Map Symbolization for Benchmark
5. Map Marginal Info

STATUS / RECOMMENDATION:

1. Mr. Kokufu requested that specific topic of the specifications for each division will be checked only by the intended division.
2. Mr. Kokufu requested also for additional information, comments or corrections on the specifications.
3. Mr. Kokufu said that Orthophoto production manual will be prepared and to be attached as an appendix. He also mentioned that metadata specifications will be attached in the final report.
4. Mr. Kokufu said in case there are many symbols in a particular area of the map and control point symbols are present, several symbols have to be deleted so that control points can be clearly seen.
5. Mr. Vicente requested that 1st and 2nd order control points (PRS92 points) symbols be reflected on the map. Furthermore, he asked using the appropriate symbols if the grid lines have to be reflected on the map.
6. Miss Castro requested the symbols for Benchmark. They decided to change the symbol for benchmark.
7. Mr. Kokufu requested for the 1st and 2nd geodetic control data to be plotted and reflected on the map. This matter will be coordinated to the CGSD.

8. Mr. Sata gave the website, International Geomatic References Field for the Geomatic Inclination (Magnetic Inclination) for further information.
9. Mr. Kokufu asked for the date of the magnetic declination that will be used in the map, they decided to put 2008 January 01.
10. Mr. Sata asked for the clarifications on the PRS 92 7 parameters data. And Mr. Vicente said that, they will look into the presentation of the marginal information on the datum as part of the final modifications for the map lay-out.
11. Mr. Vicente asked for the final printing of the topographic map sheets covered by the project. He also asked the number of copies to be printed and when the reproduction films will be arriving. And Mr. Kokufu stressed that the submission of the map reproduction films to NAMRIA depend on the needed data (Municipal Boundary) which will be given by NAMRIA to be incorporated on the map sheets. In relation to this, Mr. Manuel pointed out that the printing of the maps will depend on the schedule of the construction/renovation of the printing building.

Confirmed by:

Name	Signature	Date
Yutaka Kokufu		
Nobuhiro Sata	4/2 99	13 Nov '07
Elmer Palmario		13 Nov '07
Randolf Vicente		- do -
Ofelia Castro		13 NOV 07
Joaquin Borja		13 NOV '07
Nicandro Parayno		13 Nov 07
Reynaldo Manuel		13 Nov 07

**The Study for Mapping Policy and Topographic Mapping
for Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject	UPDATE ON PROJECT STATUS		
Date	November 26, 2007	Time : 2:00 pm	
Place	Office of the Assistant Director		
Participants	Study Team	1	Yutaka KOKUFU, JICA Project Team Leader
		2	Takano Masashi, JICA Project Deputy Team Leader
		3	Kazunobu KAMIMURA, JICA Team Member
	NAMRIA	1	Randolf Vicente, Asst. Director
		2	Joaquin Borja, Chief Cartography Division
		3	Jane Roque
		4	Sheila Eugenio
		5	Donmarl Camua

AGENDA:

1. Agreements Reached During the Previous Meeting
2. Progress of the Project and Schedule
3. Remaining Activities

STATUS / RECOMMENDATION:

1. Agreements Reached During the Previous Meeting

- NAMRIA will provide the magnetic north to JST in early December 2007.
- NAMRIA will officially provide the final transformation parameters from WGS84 to PRS92.
- The symbols to be used in the final maps were already agreed upon with Mr. Sata.
- Based from the previous meeting last September 2007, the target completion of the map sheets will be on January 2007.

2. Progress of the Project and Schedule

- The preparation of the technical specifications is 70% complete and the remaining 30% is intended for the Operational Manual formulation.
- The implementation of the Pilot Project is 90% complete.
- According to Mr. Kokufu, the 1:50,000 topographic map sheets are now being finalized in Japan.
- The six (6) map sheets were already prepared by PASCO based on the agreement in the previous meetings.
- The progress of documentation is 90% complete.
- The technology transfer has been completed.
- The analysis on demand creation has not done as stated in page 9 of Inception Report is not yet complete.

3. Remaining Activities

- The final target for map printing will be end of January 2008.
- A final seminar and presentation on the outputs is set on February 2008.
- Mr. Randy requested that the Appendix of the main report should have an attachment of the map layout and an actual map product which will show a combination of land and water areas.
- JST requested NAMRIA to send one (1) technical person to undertake press proofing prior to map printing.

4. Other Matters

- Mr. Takano said that the JST will not prepare the Action Plan for NAMRIA instead, it will depend on the final recommendation of the Project. But according to Mr. Kokufu, this matter will be discussed again by JST and NAMRIA.
- Mr. Takano asked two (2) major concerns with regards to Human Resource Development. And according to Mr. Randy, these are the technical training and career development.
- Mr. Kokufu requested Mr. Randy to have a technical meeting with Division Chiefs next week.
- Mr. Kokufu requested a staff from Mr. Randy to help in the derivation of Cost Estimates for 1:50,000 scale topographic mapping. Mr. Borja was instructed to assign a competent staff on this.

Confirmed by:

Name	Signature	Date
Yutaka Kokufu		Dec 3 '07
Masashi Takano		Dec 9 '07
Kazunobu Kamimura		Dec 3 2007
Randolf Vicente		3 Dec '07
Joaquin Borja		3 Dec 07
Jane Roque		4 Dec 07
Sheila Eugenio		3 Dec '07
Donmarl Camua		

**The Study for Mapping Policy and Topographic Mapping
for Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject		Review on Technical Specifications for 1:50,000 Topographic Mapping for the JICA Project	
Date		December 13, 2007	Time : 9:30 am
Place		Director's Office Conference Room, Mapping Department	
Participants	Study Team	1	Yutaka Kokufu, JICA Study Team Leader
	NAMRIA	1	Randolf Vicente, Asst. Director - MD
		2	Enrique Macaspac, Asst. Director - CGSD
		3	Romeo Ho, Geodesy and Geophysics - CGSD
		4	Ofelia Castro, Div. Chief - Photogrammetry, MD
		5	Trinidad Garbo, Aerial - MD
		6	Joaquin Borja, OIC Div Chief, Cartography - MD
		7	Nicandro Parayno, ASSD -MD
		8	Reynaldo Manuel, Printing & Reprography - MD
		9	Alma Arquero, GIS - RSRDAD
		10	Tita Cruz, Hydrography - CGSD
11	Brian Dela Cruz, Engineer - Photogrammetry - MD		

AGENDA:

1. Draft Technical Specifications for Topographic Mapping at scale of 1:50,000
2. Other matters

DISCUSSIONS:

1. As a background, the Project is scheduled to be completed by February 2008. The Presiding Officer stressed the point that there is a need to be completed all the required documentations and reports such as the Human Resources Development Plan and the Final Report. Although these documents will be prepared by the JICA Study Team, review and approval by NAMRIA is necessary.
2. On the Draft for 1:50,000 Topographic Specifications:
 - Proposed draft technical specifications for topographic mapping at scale 1:50,000 from JICA were presented for review by the Committee. The version of technical specifications circulated for review is different from what Mr. Koseki has submitted. Mr. Koseki's specifications focused on the quality control of the products/outputs unlike Mr. Kokufu's version which focuses on the operations/ processes.
 - Mr. Kokufu further explained that specifications prepared for NAMRIA are based on the specifications made by JICA and the International Development Incorporated (IDI), a Japanese public corporation. The Study Team prepared an Operations Manual for Orthoimage Mapping and presented copies to the members of the Committee.

- Mr. Kokufu also mentioned that NAMRIA have an existing technical specification even before the start of the Project (February 2006). But based on the previous meetings, the agency has no officially adopted specifications, thus, the Study Team prepared the Draft subject to modification of the group. If NAMRIA has existing specifications, according to Mr. Kokufu, they will just update and suggest for the updating based on the latest technology.
- The following are the comments :
 1. Certain articles of the specifications need elaborations;
 2. Some articles need to be clearly defined; and
 3. The survey portion of the specifications is more detailed ~~that~~ the mapping portion.
- The Chairman stressed that the specifications shall address the procedural aspects of the map production, the basis for the “hows” or guidelines and standards. He also suggested that process diagrams and be included in the specifications.
- Mr. Macaspac suggested to reconcile/ align the NAMRIA methodology with that process diagrams and be included in the specifications.
- Ms. Castro also expressed her expectations that the specifications shall provide standards for map details such as roads, cluster of houses, and alike. Moreover, whoever prepared the maps shall also follow similar maps specifications.
- The Committee agreed that they shall prepare/ include a diagram or process flow. They also presented a table comparing the three methodologies using aerial photographs, stereo satellite imageries, and mono satellite imageries in terms of the following processes namely: data gathering, data processing, validation/verification, and output production to determine the common activities for each methodology.
- The CGSD shall focus on the surveying portion of the specifications. It was discussed further that the method of PCP survey is the same in all methodologies employed in the Pilot Project except for the number of points to be established, as in the case of satellite imageries.
- Mr. Kokufu showed samples of the maps produced using aerial photographs and mono-satellite images. It was observed that maps produced using aerial photographs show detailed features compared to the map produced using satellite imageries.
- The Committee will use the proposed draft specifications submitted by JICA as a reference document for the preparation of the final version.

3. On Tasking:

- The tasks assigned to the Committee members during the previous TWG meeting will still be carried out by the following concerned personnel:
 - a. Guidelines on Topographic Mapping using Aerial Photographs - Trinidad Garbo of OD, MD
 - b. Guidelines on Topographic Mapping using Mono-Satellite Imagery – Alma Arquero of GIS, RSRDAD
 - c. Guidelines on Topographic Mapping using Stereo-Satellite Imagery – Nicandro Parayno of MD
 - d. Guidelines on Cartographic Enhancement – Joaquin Borja of Cartography Division, and Brian dela Cruz of Photogrammetry Division - MD

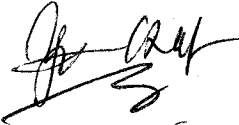

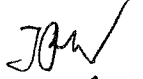






- e. Guidelines in Map Printing – Rey Manuel of Reprography and Printing Division – MD
- f. Guidelines in Topographic Data Integration and Database Management – Bobby Crisostomo of Database – IMD and Joselito Reasol of DSSO

➤ The JICA Study Team was requested by the Presiding Officer to provide documentation or literature on the use of stereo images.

➤ On the proposed format for each guideline:

1. The Committee was reminded to provide the following data in each guidelines:
 - 1.1 Should include diagrams, process flows and attachments
 - 1.2 Should be understood by the reader
 - 1.3 Discussion of the processes (methodology and specifications) for the different techniques (i.e. image to map, image to ground, or image to image) should be included
 - 1.4 System for Validation / Quality Assurance
 - 1.5 References/ Bibliography to be included.
2. The Committee was reminded to submit their outline/ process flow on 19 December 2007 and the draft write-ups of the guidelines the 4 January 2008.

4. With no other matters to discuss, the meeting was adjourned at 12NN.

Confirmed by:		Date
Name	Signature	
Yutaka Kokufu		18 Jan'y '08
Randolf Vicente		17 Jan '08
Enrique Macaspac		18 Jan. 08
Romeo Ho		18 Jan'08
Ofelia Castro		18 Jan '08
Trinidad Garbo		18 Jan '08
Joaquin Borja		18 Jan '08
Nicandro Parayno		18 Jan '08
Reynaldo Manuel		
Alma Arquero		
Tita Cruz		
Brian Dela Cruz		

**The Study for Mapping Policy and Topographic Mapping for
Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject		STATUS OF THE PROJECT	
Date		December 28, 2007	Time : 3:30 pm
Place		Office of the Director – Mapping Department	
Participant	Study Team	1	Yutaka KOKUFU, JICA Project Team Leader
		2	Kazunobu KAMIMURA, Human Resource Development 2
	NAMRIA	1	Jose Galo Isada, Jr. , Director
		2	Randolf Vicente , Assistant Director

AGENDA:

1. Schedule of the Project for 2007 and 2008
2. Progress Status of the Final Report

DISCUSSIONS:

1. Mr. Kokufu presented to NAMRIA the remaining work schedule of the project for 2007 and 2008. The schedule are as follows:
 - January 7, 2008 – JST will have a meeting with JICA Headquarters in Tokyo
 - January 15, 2008 – JST will submit to JICA Headquarters the Draft Final Report
 - January 24, 2008 – Inspection Meeting of Administrator Ventura & Director Isada in Tokyo on the map negative for final production of the map sheets.
 - January 28 or 29, 2008 – Evaluation and Presentation of Final Report of JST to JICA Headquarters in Tokyo.
 - February 15, 2008 – Tentative schedule of the Final Seminar of the Project. The proposed venue will be in Edsa Shangri-la. The target participants of this seminar are the members of the Inception Report Committee, which includes JICA Expert, JBIC, and Task Force Committee.
 - And there will be a separate workshop seminar for TCC & LGU (Region 1 & 3) and this will be done after the final seminar and the propose venue will be at the Holiday Inn - Clark. The purpose of the seminar is to turn over the map sheets to LGU.
 - March 2008 – submission of the Final Report to JICA
2. JST & NAMRIA will prepare 20 map sheets per member, thus, about 400 map sheets shall be printed on ink jet plotter for turn over during the said seminar to TCC members.
3. JST will provide a copy of the Draft Final Report to NAMRIA on February 4, 2008 for comment and recommendation before submitting the same to JICA Headquarters.

4. Mr. Kamimura discussed the recommendation and conclusion on the Planning part of the final report and solicited suggestions from NAMRIA if it will be expounded or compressed. According to Asst. Director, it is important that the recommendations and conclusion should be organized and as much as possible it shall include the technical to legal aspects. More importantly, the same should be understandable.
5. JST and NAMRIA have agreed to use the term Capacity Development instead of Capacity Building.
6. According to Director Isada and Asst. Director Randy, the DCC method of organizational analysis is not appropriate for application in NAMRIA. The result of the analysis needs further explanation in order to arrive at better conclusion.
7. Mr. Kokufu informed NAMRIA that the remaining activities will be discussed and finalized when he gets back from Japan on the middle of January 2008.
8. Meeting was adjourned at 4:30 pm.

Confirmed by:

Name	Signature	Date
Yutaka Kokufu		17 Jan, 08
Kazunobu Kamimura		17 Jan '08
Dir. Jose Galo Isada, Jr.		17 Jan 08
Asst. Dir. Randolph Vicente		

**The Study for Mapping Policy and Topographic Mapping for
Integrated National Development Plan in the
Republic of the Philippines
Meeting Record**

Subject		PRESENTATION OF JICA STUDY TEAM	
Date		February 29, 2008	Time : 11:00 am
Place		Office of the Director, Mapping Department	
Participants	Study Team	1	Takeshi KANOME, JICA Philippines
		2	Yutaka KOKUFU, JICA Project Team Leader
		3	Kiyofumi TAMARI, JICA Team Member
		4	Masashi TAKANO, JICA Team Member
		5	Tsuneo TANAKA, IDI
		6	Joel Cruz
		7	Francis Funa
	NAMRIA	1	Jose Galo Isada, Jr., Director, Mapping Department
		2	Ofelia Castro, Chief, Photogrammetry Division
		3	Joaquin Borja, Jr., OIC, Cartography Division
		4	Trinidad Garbo, Office of the Director
		5	Rosalie Reyes, Cartography Division
		6	Jane Roque, Cartography Division
		7	Sheila Eugenio, Cartography Division
		8	Donmarl Camua, Secretariat

AGENDA:

1. Presentation of the JST Recommendations of the Project

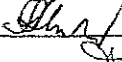
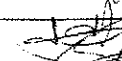
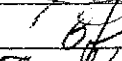

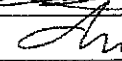
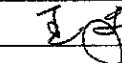
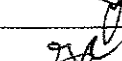
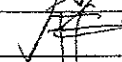
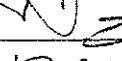
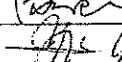
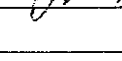



HIGHLIGHTS OF THE PRESENTATION AND DISCUSSION:

1. Mr. Kokufu, with the assistances of Mr. Joel Cruz, presented the JST recommendations regarding the Project with a subtitle "Aiming for Sustainable Revision of Topographic Maps"
2. The presentation covered two (2) strategies or plans, namely the Nationwide Deployment Plan and Capacity Development Plan. In the National Development Plan, the time, resource and cost were considered as constraints/requirements for sustainable map revision. Based on the Pilot Study, the JST projected that NAMRIA shall spend per map sheet PhP683,659.00 if single SPOT images are used; PhP1,364M if stereo SPOT images are used; and PhP 1.818M if aerial photographs are used. Similarly, the production per map sheet by private companies will cost PhP 1.077M, 2.022M, and 2.595M if single SPOT images, stereo SPOT images and aerial photographs are used, respectively.
3. The Capacity Development Plan has two (2) phases. The Phase I or the Capacity Development Phase calls for the complete update of all 653 map sheets of the PNTMS within 13 years. Three (3) scenarios were presented. These were:
 - a. Updates conducted by NAMRIA 100%;
 - b. Updates conducted jointly by NAMRIA (91%) and private sector (9%)
 - c. Updates conducted by private sector 100%

All scenarios were computed with a fixed time frame of 13 years which was calculated based on the average annual budget of PhP35.196M. Moreover, it also assumed that a minimum of five (5) workstations were used with one workstation manned by one personnel, and that work rates were based on pilot study and update work is done in two (2) shifts. Based on these figures, it was observed that using a single SPOT would cost less than using aerial photographs.

**PRESENTATION of the FINAL REPORT
(JICA Study Team)**

**NOTICE OF ATTENDANCE
(Feb. 29, 2008)**

Name	Position	Signature
Trinidad R. Garbo	Engr. IV	
JANE V. ROGUE	ENGR III	
SHEILA P. EUGENIO	ENGR III	
Ephie Castro	enyr ✓	
Takeishi Kaname	JICA	
Masashi TAKANO	JICA Study Team	
Dominant Camus	PDO	
Kiyofumi TAHARA	JICA Study Team	
Joaquin B. Botzu, Jr.	Engr IV	
R. B. ROYAS	E3	
Francis Funa	JICA Study Team	
JOE CRUV	JICA Study Team	
Tsunao TAKAKA	ID1	
YUTAKA KOKUFU	JICA Study Team	

FINAL WORKSHOP

“The Study of Mapping Policy and Topographic Mapping for Integrated National Development Plan in the Republic of the Philippines”

RECORD OF THE OPEN FORUM

I

ADIR. CABANAYAN : For the information of everyone, the National Economic Development Authority (NEDA) is currently trying to push through with the National Land Use Act or NLUA in the Senate. During the deliberation, the Senators are always asking the type of data being used by NEDA. NEDA, however, is unable to provide an answer at this very moment and citing NAMRIA as the agency providing them with the land-use maps which are their main sources for geographic information. Due to this, the Administrator, Diony A. Ventura, has already given an instruction ordering that NEDA be provided with the necessary costing for updating topographic maps. Now, from the presentation and report of Mr. Kokufu, it appears that we have three (3) different scenarios for costing. The first one is that NAMRIA will shoulder 100% of the total cost of updating the topographic maps. Second, the private sectors shall be the ones to fully bear the expenses. Lastly, both NAMRIA and the private sectors will share in the total expenditure. The question is, can at least one of these costing scenarios be given to NEDA to be consequently used in the deliberation of NLUA?

DIRECTOR ISADA : Time and again, the budget poses to be the limiting factor in any endeavor of the government. Today, Php 36 million was allotted for mapping activities. If the budget for updating 1:50,000 topographic maps remain constant or the same, it would still take a total number of 13 years to realize the full implementation of the results of the nationwide deployment of the Study.

ADIR. CABANAYAN : The NLUA cannot proceed without this costing. Likewise, it cannot afford to wait a total of 13 years before it starts proceeding. Currently, the Senators always presume that updating the topographic maps can be done in a short span

of time. Moreover, they are also always after the immediate completion of a particular Project.

DIRECTOR ISADA : That is why I asked the JICA Study Team to try out and explore other scenarios which would enable us to update maps, say, within three (3) to five (5) years only.

ADIR. CABANAYAN : Can we submit this particular costing to NEDA? If we can, we will submit it tomorrow.

DA TIANGCO : With the fast pace of technological development, cost for the updating of topographic maps may be less from what we have originally forecasted. Case in point: Three (3) years ago, Japan launched ALOS, its very own satellite. ALOS is able to provide data similar to that of SPOT5 but at less cost. In the Study, you have used SPOT5 as base source of geographic information. It is also a very expensive acquisition, if I might add. Hence, we could probably exploit the developments in technology and turn them into our advantage by recomputing the costing using this time ALOS as the source image.

MR. KOKUFU : ALOS is not yet ready.

DIRECTOR PAPA : Currently, we have a target of 653 map sheets to cover the whole Philippines in updating topographic mapping. Likewise, we also have been receiving additional funds intended to be used for both data acquisition and disaster mitigation management. In reality, though, we are not actually starting from zero or 653 map sheets because there were already efforts before to conduct data acquisition and, as a result, some images have already been acquired from other Projects. This might make an impact in the total cost by lessening it. Have you put thought and consideration on this idea?

DIRECTOR ISADA : I am not sure if the cost for data acquisition has already been considered in the costing.

MR. KOKUFU : We have already computed based on different scenarios, that is, with data acquisition, without data acquisition, etc. We can provide NAMRIA with the computations.

DA TIANGCO : Bidding requires the cheapest cost among all the available costings. Why not try other scenarios? Try out the scenario which involves ALOS as the source image. I strongly suggest exploring on this. One way of doing so is to coordinate and talk with the Japan Aerospace or JAXA regarding this matter.

II

ENGR. REYES : In the Study, you have used the SPOT5 as base source in updating. However, IFSAR is more preferred and recommended when updating contour lines. If this is the case, I suggest that we use IFSAR instead. Similarly, DSM can be used to ortho-rectify SPOT5 and generate contours. Moreover, the IFSAR images are already ortho-rectified or in WGS84. The next step is just to transform them into the PRS92 Coordinate System. Considering all these ideas and weighing the other scenarios, why, then, did you not include IFSAR in your scenario setting?

MR. KOKUFU : IFSAR is very expensive.

ENGR. REYES : Based on my calculation, it is more expensive only by Php 200,000 to Php 300,000 per SPOT image. Thus, in the long term, IFSAR will prove to be much more cost-effective.

DA TIANGCO : ALOS is also equipped with optical and radar sensor.

DIRECTOR ISADA : Making use of SPOT5 in topographic mapping is more economical as compared to utilizing IFSAR. This is because the available IFSAR data is only in Mindanao and the cost for acquisition for the whole country is too expensive.

MR. KOKUFU : To that we agree. The cost is high for the whole Philippines. One way to address this issue/problem is to stress the use of mono-satellite imagery instead.

DA TIANGCO : Topographic mapping using mono-satellite imagery is, indeed, cost-efficient but still other means of topographic mapping should also be considered in the likes of Japan's ALOS.

III

DIRECTOR BELEN : There is a need to recalculate the costs. Support or funding for the updating of topographic maps is increasing so maybe the cost is lower than originally forecasted. Is the increase in budget reflected on the Study? Will there be a way to decrease or downplay the costing as well as the length of production of the updated topographic maps?

DIRECTOR ISADA : The budget has already been incorporated in the calculation of cost and it was also reflected on the Study.

IV

DIRECTOR PAPA : After the Study, the next step is to market the product. As they say, products are either for free or for a fee. Is a pricing policy part of the immediate outputs of the Study? Have you prepared a definitive guideline towards this next undertaking so that we can be able to profit accordingly?

MR. KOKUFU : That is not part of the scope of the Study.

V

DA BINA : How much would it cost to revise or update a 1:50,000 topographic map sheet and for how long?

MR. KOKUFU : Php 685,000/map sheet with scale of 1:50,000 for 120 days based on NAMRIA's estimate.

VI

ADIR. VICENTE : Good afternoon. Just a question for Mr. Kokufu. In your report, you have presented three (3) methodologies that can be used for topographic base mapping, namely, (1) Photogrammetric Method, (2) Mono-Satellite Imagery, and (3) Stereo-Satellite Imagery. Do we have to understand that the second method is the most preferred method among the three above-mentioned?

MR. KOKUFU : Yes.

VII

ADIR. FABIC : Kindly clarify the topics regarding **Licensing and Branding**. The two mentioned subjects being part of the Recommendation Study or Promotional Plan. Can you please elaborate more on them?

MR. NAKIMURA : *Licensing* is similar to the process of licensing software products while *branding* is the act of putting a label to a product.

ADIR. FABIC : Government products should be free of charge and for the use and consumption of the public.

VIII

ADIR. VICENTE : As per your design of the Project, how do we induce or inject recommendations into the maps like the use of new technology perhaps? Why did you suggest for a Cyclical Revision Plan rather than a Selective Plan?

MR. KOKUFU : We will meet and further discuss about the plan after the final workshop.

ATTENDANCE OF THE FINAL WORKSHOP

“The study for Mapping Policy and Topographic Mapping for the Integrated National Development Plan in the Republic of the Philippines”

March 5, 2008

**Palawan Function Room, EDSA Shangri-la Hotel
1 Gardenway, Ortigas Center, Mandaluyong City**

1.	Ricardo T. Biña	-	Deputy Administrator
2.	Peter N. Tiangco	-	Deputy Administrator
3.	Ruel M. Belen	-	OIC, Plans and Operation Division
4.	Linda SD. Papa	-	Director - IMD
5.	Rodolfo M. Agaton	-	Director - CGSD
6.	Jose C. Cabanayan, Jr.	-	Assistant Director - RSRDAD
7.	Nelson M. De Leon	-	Assistant Director - ESD
8.	John SF. Fabic	-	Assistant Director - IMD
9.	Audie A. Ventirez	-	Assistant Director - CGSD
10.	Alma SM. Arquero	-	RSRDAD, Chief, GIS Applications Development
11.	Joselito Reasol	-	ESD-DSSO, Information Tech Officer III
12.	Victor Bato	-	Information Analyst III - IMD
13.	Jose Galo P. Isada, Jr.	-	Director – Mapping Department
14.	Randolf S. Vicente	-	Assistant Director – Mapping Department
15.	Ofelia T. Castro	-	Chief, Photogrammetry Div – Mapping
16.	Joaquin Borja	-	OIC, Cartography Div – Mapping
17.	Reynaldo Manuel	-	OIC, Rep & Printing – Mapping
18.	Nicandro P. Parayno	-	OIC, Aerial & Spatial Survey – Mapping
19.	Trinidad R. Garbo	-	Engineer IV - Mapping
20.	Cleotilde C. Galicia	-	Engineer IV – Mapping
21.	Josefina Sacapano	-	Engineer IV – Mapping
22.	Brian A. Dela Cruz	-	Engineer IV – Mapping
23.	Cesar B. Buenaobra	-	Engineer III – Mapping
24.	Glicería Y. Yarre	-	Engineer III – Mapping
25.	Roger De Luna	-	Engineer III – Mapping
26.	Sheila P. Eugenio	-	Engineer III – Mapping
27.	Jane V. Roque	-	Engineer III – Mapping
28.	Rosalie B. Reyes	-	Engineer III – Mapping
29.	Imelda P. Cabatay	-	Engineer III – Mapping
30.	Rowel Arce	-	Engineer III – Mapping
31.	Roberto Narvaez	-	Engineer III – Mapping
32.	Maricel De Luna	-	Engineer II – Mapping
33.	Joselito Villanueva	-	Engineer II – Mapping
34.	Celedonio J. Pili	-	Photographer V – Mapping
35.	Noel Besana	-	Photographer V – Mapping
36.	Rogelio Dais	-	Cartographer IV – Mapping
37.	Joselito J. Eugenio	-	Cartographer IV – Mapping
38.	Charlene Lagayan	-	Cartographer II – Mapping

39.	Ma. Victoria Baleta	-	Cartographer I – Mapping
40.	Danilo Campana	-	Head Pressman – Mapping
41.	Charisma Dela Cruz –Cayapan	-	Engineer II – Mapping
42.	Donmarl DC. Camua	-	Project Development Officer – Mapping
43.	Yonah S. Aninipot	-	Project Development Officer – Mapping
44.	Monica G. Mercado	-	Project Development Officer – Mapping
45.	Mark Teoderick B. Bancuyo	-	Project Development Assistant - Mapping
46.	Ferdinand Rabago	-	Project Development Assistant – Mapping
47.	Lorelie E. Peralta	-	Chief of Staff , NAMRIA
48.	Fernandez B. Apoderado	-	Project Development Officer – Mapping
49.	Febrina Damasa	-	Division Chief – ISD –IMD
50.	Alvin Lauro	-	ISD II – IMD
51.	Jaime Mallare	-	ITO II – IMD
52.	William Sese	-	SV.EDS – NEDA
53.	Nelita Tabbada	-	ITO II – DENR
54.	Marlon Mariñas	-	MPD
55.	Grace Gatacelo	-	MPD
56.	Ben De leon	-	MPD
57.	Xenia Andres	-	MPD
58.	Yutaka KOKUFU	-	JICA Study Team Leader
59.	Masashi TAKANO	-	JICA Study Team – Deputy
60.	Kiyofumi TAMARI	-	JICA Study Team Member
61.	Hisashi MORI	-	JICA Study Team Member
62.	Kazunobu KAMIMURA	-	JICA Study Team Member
63.	Tsuneo TANAKA	-	JICA Tokyo
64.	Takeshi KANOME	-	JICA Philippines
65.	Koichi SAKAI	-	Embassy of Japan
66.	Shoichi KOKUTA	-	JICA Expert , CGSD
67.	Ichiro DEGUCHI	-	Consultant, PACER
68.	Grace Desusa	-	Secretary
69.	Joel Cruz	-	Consultant
70.	Francis Funa	-	Consultant

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MEETING RECORD

07 March 2008 11:21 A.M.

Director's Office, Mapping Department, NAMRIA

Present were:

1. Mr. Jose Galo Isada, Jr., *Director-MD*
2. Mr. Randolph Vicente, *Assistant Director-MD*
3. Mr. Yutaka Kokufu, *Team Leader- JST*
4. Mr. Kazunobu Kamimura, *JST*
5. Mr. Masashi Takano, *JST*
6. Mr. Kiyofumi Tamari, *JST*
7. Mr. Hisashi Mori, *JST*
8. Mr. Yasuhiro Suhara, *JICA*
9. Mr. Takeshi Kanome, *JICA*
10. Mr. Tsuneo Tanaka, *IDI*
11. Ms. Ofelia Castro, *Photogrammetry-MD*
12. Mr. Joaquin Borja, Jr., *Cartography-MD*
13. Ms. Mary Grace Desusa (*Secretariat*)
14. Mr. Donmarl Camua (*Secretariat*)
15. Ms. Yonah Aninipot (*Secretariat*)

Agenda:

1. Review of the Draft Final Report of the JICA- Assisted Project
 2. Other Matters
-

- I. The meeting was called to order at 11:21 A.M. and presided by Dir. Jose Galo P. Isada, Jr.
- II. Preliminary Discussions
 - A. Dir. Isada first elaborated and explained the objective of the Project. Mr. Kanome emphasized that there was a meeting last week between the JICA Study Team (JST) and NAMRIA concerning the objectives of the Project done before the final seminar.
 - B. Adir. Vicente suggested that in order to manage the discussion, the body may look at the project components individually and discern whether their objectives were achieved. Similarly, comments and recommendations are most welcome provided that they are explained explicitly or further expounded for better understanding and comprehension.
 - C. Adir. Vicente emphasized the need to include the results of the final workshop held last 05 March, 2008 at Shangri-La Edsa specifically the suggestions being made that are acceptable.

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III. On the Objectives of the Final Draft Report

A. The Capacity Development Plan

1. Adir. Vicente inquired if the Capacity Development Plan was already formed that shall support the topographic base mapping of the whole country. Otherwise, initial steps shall be made by the JST to develop one. Mr. Yutaka Kokufu countered that no explanations are needed because the JST has already submitted the Final Report, interim report and related documents. In addition, Mr. Kamimura said that the Capacity Development Plan was supported by the details on Sections 4-2 to 4-6 of the Draft Report. Specifications for Topographic Mapping can be seen on Section 4-7. This was done for editing purposes.

In addition, Adir. Vicente inquired to the specific recommendations to be made for the above objective. Mr. Kamimura refers this concern to the table of contents which shows its corresponding components. He also explained that public sectors and data users are also important and shall therefore be included in the report.

2. Adir. Vicente suggested to include in the Final Report particularly the institutional aspects, the specific role of the Technical Coordinating Committee (TCC) on the Updating of Topographic Maps because it is one of the lessons learned which may be adopted for nationwide deployment. Dir. Isada agreed and added that it is a very good point to have them involved.
3. The NAMRIA side clarified if there will be a considerable effect of TCC's or local government units' participation in the cost estimates. The Study Team responded that the effect is minimal and maybe disregarded in the cost estimates.

B. The Human Resource Development (HRD) Plan

1. Mr. Kokufu said that trainings and OJTs were designed and implemented for Mapping Department personnel only.
2. The Study Team explained that depending on the complexity and load of work, a HRD Section needs to be established at the Department. In the long run, it will have to be integrated to the Administrative Department. The NAMRIA side is hesitant on establishing a HRD Section at the Mapping Department, but agreed to assign an Officer-in-Charge for HRD in the interim.
3. Adir. Vicente suggested that before the Nationwide Deployment Plan implementation, there shall be a period or strategy to capacitate the

97 Mapping staff. The Study Team agreed to include a statement as
98 suggested in the recommendation. JICA recommended that the
99 training program should be prepared by NAMRIA itself if instructors
100 are to be dispatched from Japan. NAMRIA side agreed affirmatively in
101 such recommendation.

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103 C. The Specifications of Topographic Mapping at Scale 1:50,000

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105 1. Mr. Kokufu informed the body that the specifications will be submitted
106 as a separate volume.
107
108 2. NAMRIA will also prepare its own specifications based from the JST
109 formulated specifications and other relevant reference materials.
110

111 IV. On the Pilot Project Area

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113 A. On Chapter 3 of the Draft Final Report, Ms. Castro commented that the
114 other technologies were not utilized in the Pilot Project. She also said that
115 the two-week OJT is not adequate for the technology transfer. Relative to
116 this, Adir. Vicente commented that Trainors should know how to speak
117 English so that OJT participants could understand. But according to Mr.
118 Kokufu, the ERDAS training was just an additional request of NAMRIA.
119

120 B. Mr. Tanaka suggested that NAMRIA should review and validate the cost
121 estimates of the Pilot Project. Mr. Kanome requested for the deadline of
122 submission to JST on 10 March, 2008, Monday. The cost estimates cover
123 24 map sheets but 4 map sheets are to be covered only by satellite
124 images.
125

126 V. Other Matters

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128 A. Adir. Vicente suggested that risks and risk management should be
129 included in the discussion of nationwide deployment plan or in Chapter 4.
130 The JST agreed on this.
131

132 B. Other technologies available need to be explored and/or included in the
133 report. The JST responded that the ALOS information would be included
134 in Chapter 2 of the report.
135

136 C. Adir. Vicente reminded the body to consider the comments of Adir. John
137 Fabic concerning the Licensing and Branding which were raised during
138 the open forum of the Final Workshop at Edsa Shangri-La, Mandaluyong
139 City.
140

141 D. Adir. Vicente told the JICA Study Team to reorganize the Final Draft
142 Report style for clarity and better comprehension. He pointed out some
143 minor corrections in the appendices. He also asked the Team to arrange
144 the recommendations based on the objectives.

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E. The Study Team promised to have a seminar on cost estimates on 10 March, 2008 as requested by the NAMRIA side.

F. Adir. Vicente reminded the Secretariat to submit all the copies of the minutes of meeting related to JICA Project and give copies to the JST.

G. Mr. Kokufu asked the NAMRIA side to give their comments on their Draft Final Report on March 10, 2008 for their reference purposes. If comments are not ready on the said date, the same shall be picked up by Mr. Takano.

H. Mr. Suhara expressed that the Report be fully utilized by the NAMRIA side. He also recommended that NAMRIA should prepare their Strategic Plan in the future. He also asked that the contents of the Report should be explained to the Administrator of NAMRIA.

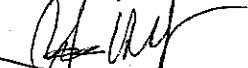
VI. With no other matters left for discussion, the meeting was adjourned at 1:00 P.M.

Prepared by:


Mary Grace Desusa
Project Secretary


Yonah S. Aninipot
Project Development Officer

Noted by:


Yutaka Kokufu
Team Leader, JST


Jose Galo P. Isada, Jr.
Director, Mapping Department