

JAPAN INTERNATIONAL COOPERATION AGENCY
SURVEY OF KENYA, THE REPUBLIC OF KENYA

**THE PROJECT FOR
STRENGTHENING OF SURVEY OF KENYA
FOR GIS PROMOTION
IN THE REPUBLIC OF KENYA**

**FINAL REPORT
(ANNEX)**

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NOVEMBER 2008

**EXPERTS TEAM
KOKUSAI KOGYO CO., LTD.**

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**JAPAN INTERNATIONAL COOPERATION AGENCY
SURVEY OF KENYA, THE REPUBLIC OF KENYA**

**THE PROJECT FOR
STRENGTHENING OF SURVEY OF KENYA
FOR GIS PROMOTION
IN THE REPUBLIC OF KENYA**

**FINAL REPORT
(ANNEX)**

NOVEMBER 2008

**EXPERTS TEAM
KOKUSAI KOGYO CO., LTD.**



1191488 [4]

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1. Minutes of Meeting of the Inception Report

MINUTES OF MEETING
FOR
THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN

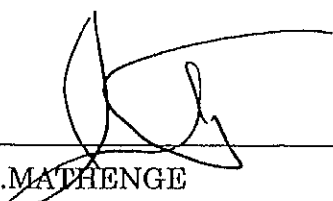
SURVEY OF KENYA

AND

JICA CONSULTANTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

13th November, 2006




J.K. MATHENGE

Ag. Director of Surveys

Survey of Kenya

Ministry of Lands

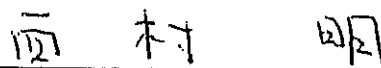


JUN SATO

Chief Advisor

JICA Consultants Team

Japan International Cooperation Agency
(JICA)



AKIRA NISHIMURA

Work Director

JICA Consultants Team

Japan International Cooperation Agency
(JICA)

Survey of Kenya (hereinafter referred to as "SOK") and Japan International Cooperation Agency Consultants Team for "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Consultants Team") held a meeting concerning "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" on the 31st day of October 2006, from 14:45 to 17:00. The meeting took place at the meeting room of KISM in a friendly atmosphere.

1. Opening Remarks

Director of Surveys, Mr. Mathenge, gave the opening remarks.

2. Brief on the inception report of the project

JICA Consultants Team explained the inception report and emphasized on the following points at the meeting.

- a). With the view to supporting the strengthening of SOK's capacity, SOK employees should play a major role in the project.
- b). JICA consultants team shall advise SOK counterparts how to strengthen SOK's capacity and to implement the project smoothly.
- b). The monitoring method will be adopted in order to evaluate how much the project progress.

3. Confirmation of the Project Design Matrix (PDM)

The PDM (Ver.1) was reconfirmed by SOK and JICA Consultants Team. However there were a lot of items, for example the indicator, that was discussed hardly when the PDM (Ver.1) was set up, therefore SOK and JICA Consultants Team have agreed to revise the PDM if necessary.

4. Discussion- Questions and Answers

Q1: SOK understands that this project is cutting across Divisions (Geodetic, Mapping and Cadastral) of SOK. How does JICA Consultants Team coordinate the project within these divisions?

A1: This is a very hard question to answer. After appointing each counterpart, we will discuss how to coordinate activities of Divisions where each counterpart belongs to.

Q2: In the project, the topo map data of Nairobi city will be disclosed on the internet. How do we consider about the copyright and abuse of the data?

A2: There are two protection methods for the data, one is the technical protection method and the other one is the legal protection method. SOK has to adopt both measures.

The disclose of sample data will be expected to advertise the geographic information. Someone who wants to get the topo map data of Nairobi city goes to SOK office and purchases it at their office.

Q3: How do we get the geographic information?

A3: In the project, the clearing house will be established and you can search the needed geographic information at the clearing house through the internet and you can get it either on the Web site or at the SOK office.



In principle, SOK agreed on the Inception Report prepared by JICA Consultants Team.

5. Assignment of counterparts

Because SOK understood the requested counterparts list by JICA consultant team, SOK promised to appoint counterparts as soon as possible (by 1st day of November).

6. Appointment of the Joint Coordinating Committee(JCC)

SOK promised to request the related organization to nominate a committee member.

7. Proposal for the date of the first Joint Coordinating Committee meeting

SOK promised to ask the Permanent Secretary, Ministry of Lands, to suggest a date of the first Joint Coordinating Committee meeting.

8. Any other business

The Director of Surveys asked the Deputy Project Manager to react on status procurement of equipment. JICA consultants team requests, for example introducing ADSL line, desks and chairs etc. as soon as possible.

SOK requested the following to JICA Consultants Team:

(1) The Counterpart personnel shall take the opportunity of training in Japan.

JICA Consultants Team promised to convey this request to the JICA Headquarters.

The members who attended the meeting are listed in Appendix-1.

(3) 

LIST OF ATTENDANTSKenyan Side:

Surveys of Kenya, Ministry of Lands

Mr. J. K. MATHENGE	Ag. Director of Surveys
Mr. E. M. MURAGE	Ag. Deputy Director of Surveys
Mr. B. N. OWINO	Senior Assistant Director of Surveys (Geodetic and GIS)
Mr. J.G. HALAKE	Senior Assistant Director of Surveys (Hydrographic Surveys)
Mr. Z. KANUNU	Ag. Senior Assistant Director of Surveys (Cadastral)
Ms. P. W. GITIMU	Ag. Senior Assistant Director of Surveys (Mapping)
Mr. P.M. GOTA	Ag. Assistant Director of Surveys (Geodetic and GIS)
Mr. C.T. MUTURI	Chief Photogrammetrist (Air Survey)

(KISM)

Mr. B. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping
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Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Consultants Team
Mr. A. NISHIMURA	JICA Consultants Team, Surveyor
Mr. K. YAMADA	JICA Consultants Team, Photogrammetrist

(JICA Kenya Office)

Mr. M. ISHIZUKA	Assistant Resident Representative
Ms. A. OLUBENDI	Programme Officer

1/2. 

2. Minutes of Meeting of the First JCC

MINUTES OF MEETING
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THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
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AGREED UPON BETWEEN

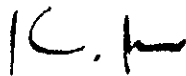
JOINT COORDINATING COMMITTEE

AND

JICA CONSULTANTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

13th December, 2006



Kombo MWERO
Chairman
Permanent Secretary
Ministry of Lands, Republic of Kenya



Jun SATO
Chief Advisor
JICA Consultants Team
Japan International Cooperation Agency
(JICA)

Japan International Cooperation Agency Consultants Team for "The Project for Strengthening of Survey of Kenya (SOK) for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Consultants Team") and Joint Coordinating Committee (hereinafter referred to as "JCC") held a meeting concerning the Inception Report of "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" on the 24th day of November 2006, from 10:20 AM to 12:00 AM. The meeting took place at Permanent Secretary's board room at the ARDHI House in a friendly atmosphere.

1. Opening remarks

The Chairman (Permanent Secretary) introduced Kenyan participants and welcomed them all to the meeting. The Deputy Resident Representative of JICA Kenya Office also introduced each of the JICA Consultants team.

The Permanent Secretary requested that the members should hold periodical meetings i.e. every six months to be able to carry out their mandate successfully.

2 Agenda

"Inception report"

JICA Consultants Team explained the inception report and emphasized on the following points at the meeting.

- a). With the view to supporting the strengthening of SOK's capacity, SOK employees should play a major role in the project.
- b). JICA consultants team shall advise SOK counterparts how to strengthen SOK's capacity and to implement the project smoothly.

3. Plenary session

- A. The Director of Surveys requested on the highlights on the equipment
 - a). It was reported that nine computers for networking are already supplied and JICA is contacting the suppliers for the other software required to be provided the soonest possible.
 - b). SOK has already provided ADSL internet services hence the availability of information.
 - c). JICA provided a generator and the Director of Surveys pointed out that SOK is going to carry out the construction of the generator house.
 - d). The Director of Surveys was concerned on the fuel consumption of the generator but the Permanent Secretary asked for more allocation to be provided to cater for the use of generator since it is a necessity.
- B. JICA consultants team appreciates provision of internet services and requests for the network system because establishing clearing house in the project will depend on availability of LAN.
 - a). SOK has requested the government to establish the network system but not yet agreed on the issue.
- C. When and how many JICA experts will come to Kenya?
 - a). Three more JICA experts will come in January/February next year.
- D. Publication of the geographic information
 - a). It is necessary that SOK makes public the geographic information that SOK generates.

b). there are several cases that the duplication of investment has done in the field of map creation. To avoid the duplication of investment, the information about geographic data construction should be shared with a related organization.

E. Whether large scale mapping is to be involved

a). It was reported that this was not a main part on this project but based on the standards some changes would be bound to occur.

b). The Chief Advisor noted that it could be a very sensitive issue how to disclose large scale maps in digital form, so plenty discussions would be needed among the stakeholders.

4. A.O.B

a). There should be smooth running of the project due to short period of time required for the implementation i.e. 2 years

b). The PDM should be revised and the changes might be made to achieve the objectives.

c). Both sides should make an effort to achieve the project purpose.

d). JICA consultants team invites every member to KNSDI seminar to be held at AICAD on 29th November, 2006.

The conclusions of the discussions were as follows:

1. In principle JCC agreed on the Inception Report prepared by JICA Consultants Team.

The members who attended the meeting are listed in Appendix 1.

1/2.

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LIST OF ATTENDANTS

Kenyan Side:

Mr. K. MWERO	Permanent Secretary, Ministry of Lands
Mr. A. A. O. MONDOH	Director, Administration, Ministry of Lands
Mr. J. K. MATHENGE	Project Manager: Director of Surveys, SOK
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping
Mr. B. N. OWINO	Deputy Project Manager, Senior Assistant Director, SOK
Mr. S. E. ONSARE ONDARI	For Director, Central Bureau of Statistics
Mr. KANYIRI	Senior Assistant Secretary, Ministry of Lands

Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Consultants Team
Mr. A. NISHIMURA	JICA Consultants Team, Surveyor
Mr. K. YAMADA	JICA Consultants Team, Photogrammetrist
(JICA Kenya Office)	
Mr. K. TOKUHASHI	Deputy Resident Representative
Mr. M. ISHIZUKA	Assistant Resident Representative

3. Minutes of Meeting of the Second JCC

MINUTES OF MEETING
FOR
THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN

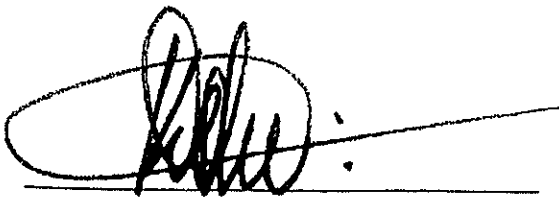
JOINT COORDINATING COMMITTEE

AND

JICA EXPERTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

19th March, 2007



Karoli OOKO
Chairman
Director of Administration
Ministry of Lands, Republic of Kenya



Jun SATO
Chief Advisor
JICA Experts Team
Japan International Cooperation Agency
(JICA)

Japan International Cooperation Agency Experts Team for "The Project for Strengthening of Survey of Kenya (SOK) for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Experts Team") and Joint Coordinating Committee (hereinafter referred to as "JCC") held a meeting concerning the progress of the project up to that time on the 9th day of March 2007, from 10:35 AM to 00:25 PM. The meeting took place at the Permanent Secretary's board room at ARDHI House in a friendly atmosphere.

1. Opening remarks

The Chairman (the Director of Administration), Mr. Ooko gave the opening remarks and Mr. Tokuhashi, the Deputy Residents Representative of JICA Kenya Office, gave remarks on behalf of Mr. Kano, the Residents Representative.

2 To review the overall progress of the project

JICA Experts Team explained the progress and achievements of five thematic fields, i.e. Map digitization, Standardization, GIS training, Metadata/Clearinghouse and Network/Web operation.

Mr. Halake elucidated further after each presentation of the five fields to make the Director of Administration and other JCC members to completely understand.

At the end of the presentations, the JICA experts Team asked JCC members to confirm the revised Project Design Matrix (PDM) based on the changes made by the monitoring meeting that was held on 8th March 2007 with counterparts of SOK. The reasoning behind changes on the PDM was given by the JICA Experts Team, for example, why some indicators had to be added, why the outputs had to be broken down and why the activity of capacity building had to be moved elsewhere. There were some questions, answers and earnest arguments amongst participants. The JICA experts answered with good reasons based on the recommendations of the monitoring meeting.

Finally the revised PDM was confirmed by the JCC.

3. A report on the component of Survey of Kenya for the project

Mr. Halake explained the process of appointments and achievements of the counterparts and the enabling environment created for the project, i.e. office rooms, office furniture, telephone line, electricity, etc. At the end, he reported on the introduction of the Internet line and the acquisition of the dedicated domain name (knsdi.go.ke) for the project from the Ministry of Finance.

4. Discussion on the dissemination of Geo-spatial data.

The chief advisor, Mr. Sato proposed how and which geographic data was to be open to the public and he requested JCC members to discuss from technical and legal view points. The discussion was however differed to a later date when dissemination capability of the secretariat has been enhanced.

1/2. 

5. The outline of next step for the project.

The JICA Experts Team explained the outline of the next step for the project. The flowchart, detailed schedule and input for subsequent steps were explained briefly.

6. A. O. B.

The next JCC meeting was proposed to be held just after the next monitoring evaluation meeting at the beginning of the October 2007.

The resolutions of the meeting were as follows:

1. The JCC confirmed the progress and achievements of the project as the first step that was carried out by SOK and JICA Experts Team.
2. The JCC confirmed the revised PDM.

The members who attended the meeting are listed in Appendix-1.

1/2. 

LIST OF ATTENDANTSKenyan Side:


Mr. K. OOKO	Director of Administration, Ministry of Lands
Mr. J. K. MATHENGE	Project Manager: Director of Surveys, SOK
Mr. J. G. HALAKE	Deputy Project Manager, Senior Assistant Director, SOK
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping

Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Experts Team
Mr. A. NISHIMURA	JICA Experts Team, Surveyor
Mr. K. YAMADA	JICA Experts Team, Photogrammetrist
Mr. K. MASUDA	JICA Experts Team, GIS Engineer
Mr. T. TAKASHO	JICA Experts Team, ICT Engineer

(JICA Kenya Office)

Mr. K. TOKUHASHI	Deputy Resident Representative
Mr. T. KANENAWA	Assistant Resident Representative
Mr. S. N. MOGERE	Monitoring & Evaluation Advisor

13. 

The Project for Strengthening of Survey of Kenya for GIS Promotion in The Republic of Kenya

Cooperation Period : 2006-2008 (2years)
 Implementation Agency : Survey of Kenya (SOK), Ministry of Lands, JICA
 Working Area : Nairobi
 Made on March 8th, 2007, Ver. 2

Super Goal	Narratives Summary	Indicators	Means of Verification	Important Assumptions
<p>National Spatial Data Infrastructure (NSDI) is constructed.</p> <p>Overall Goal GIS utilization is promoted.</p>	<p>1. GIS users can collect necessary information on the web page. 2. GIS users can receive technical support from relevant organizations.</p> <p>Utilization of GIS will be promoted by 2010.</p>	<p>- SOK web site - Document of related organization.</p> <p>- Document of related organization.</p>	<p>- Demands for GIS utilization will be increased. - Hardware and Software for GIS will become common. - The direction of the government for the use of national spatial data will be maintained. - Institutional rules for NSDI will be elaborated.</p>	
<p>Project Purpose The capacity of SOK is strengthened for promotion of GIS utilization.</p>	<p>1. Number of organization using SOK's services will be increased. 2. Related organizations will appreciate the services of SOK.</p>	<p>- Questionnaire for GIS users</p>	<p>- Related organizations are positive to GIS promotion.</p>	
<p>Outputs 1. SOK's capacity on reliable map digitization is improved for GIS promotion. 2. Spatial data infrastructure is standardized.</p>	<p>1-1. Productivity of map digitization will be improved. 1-2. The specification of map digitization will be prepared. 1-3. The manual of map digitizing will be prepared. 2-1. Specifications for spatial data infrastructure, developed by the Project, will be appreciated by the standard working group (WG) of NSDI. 2-1-1. Result of Survey of GIS development and Provision is published. 2-1-2. KSSO 19000series(Geographic Information) are published. 2-1-3. Product Specification for Spatial Data Infrastructure is published. 3-1. GIS users will be satisfied with the training provided by SOK. 3-1-1. Result of Survey of GIS data Application is published. 3-2-1. Guidelines for geospatial data supply will be published. 3-2-2. Computer network system and Web site are developed and managed. 3-2-3. Clearing house will be developed and managed. 3-2-4. Nairobi City sample map will be posted on pilot web site</p>	<p>- Project document - Questionnaire to the WG - web site - Questionnaire for trainees - Training records</p>	<p>- The trained staff of SOK in this project will be retained.</p>	
<p>Activities 1.1 To analyze map digitizing methods used in SOK 1.2 To formulate a manual to improve the map digitizing process based on the analysis result 1.3 To formulate a digital map database and to implement quality control 1.4 To build capacity of SOK staff on the above mentioned technical skills 2.1 To survey the present condition of GIS data preparation/ supply in Kenya 2.2 To formulate and publish draft specifications of SOK's spatial data infrastructure based on the survey result 3.1.1 To survey needs on GIS utilization to organizations which are using or planning to use GIS 3.1.2 To organize and conduct necessary training in order to introduce GIS based on the survey result "2.1" 3.2.1 To prepare meta-data sets based on the survey result of "2.1" 3.2.2 To develop and publish guidelines of geospatial data supply based on the survey result "2.1" 3.2.3 To develop and manage computer network system and web site 3.2.4 To prepare and publish sample map of Nairobi City on web site. 3.2.5 To develop a clearing house on web site</p>	<p>Kenyan Side 1. Assignment of counterparts personnel - Project Manager - Deputy Project Manager - Map digitizing - Standardization - GIS Training - Clearing house/Metadata - Information technology - Data Supply - Secretaries, etc. 2. Facilities - Japanese's experts' room - Telephone line and Internet facility etc. 3. Project expenses</p>	<p>Japanese Side 1. Assignment of Japanese experts; - Leader - Map digitizing - training - GIS standardization - Clearinghouse/Metadata - Network/Web cooperation 2. Equipment - PCs - Hardware - Software - Others 3. Training in Japan</p>	<p>- Appropriate budget of Kenyan side will be secured. - Adequate number of counterpart personnel will be assigned. - The related organization will be cooperative.</p>	<p>Precondition</p>

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4. Minutes of Meeting of the Progress Report

MINUTES OF MEETING
FOR
THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN


SURVEY OF KENYA


AND

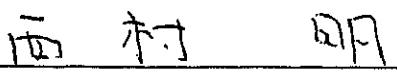
JICA EXPERTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

26th October, 2007


EPHANYUS M. MURAGE
Director of Surveys
Survey of Kenya
Ministry of Lands


JUN SATO
Chief Advisor
JICA Experts Team
Japan International Cooperation Agency
(JICA)


AKIRA NISHIMURA
Work Director
JICA Experts Team
Japan International Cooperation Agency
(JICA)

Survey of Kenya (hereinafter referred to as "SOK") and Japan International Cooperation Agency Experts Team for "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Experts Team") held a progress report meeting concerning "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" on the 17th day of October 2007, from 9:15 to 11:00. The meeting took place at the meeting room of Kenya Institute of Surveying and Mapping (herein after referred to as "KISM") in a friendly atmosphere.

1. Opening Remarks

The chair (Director of Surveys), Mr. Murage gave the opening remarks.

The chair welcomed members and thereafter requested members to carry out self introduction.

2. Presentation of the progress report

JICA Experts Team explained the progress report and emphasized on the following points at the meeting.

- a). To understand how much the project progressed, the explanation was focused on the process and the results.
- b). The monitoring method was adopted in order to evaluate how much the project progress.

3. Discussion- Comments (C), Questions (Q) and Answers (A)

<JET = JICA Experts Team, JKO = JICA Kenya Office>

C1 [SOK]: SOK makes an effort at keeping a good condition for the equipment that JICA provided, for example, the generator is kept the good condition by building the storage shed.

C2 [SOK]: In the presentation, the expert who is in charge of the creation of the clearing house will be coming in January next year. SOK is making an effort to introduce the LAN (Local Area Network) including the high speed internet connectivity for the office within a year.

Q1 [JET]: Concerning the high speed internet connectivity, is it expected to realize the high speed internet connectivity by the end of this year?

A1 [SOK]: Right now, SOK cannot say "Yes", but SOK continues to make an effort to realize the high speed internet connectivity for creation of clearing house by the beginning of January next year.

C3 [SOK]: In the next fiscal year, we will not have the expert who is in charge of the creation of the clearing house, we shall realize the high speed internet connectivity by the beginning of January next year and realize the clearing house.

Q2 [SOK]: Are there any plans of JICA that is based on the results of this project after the completion of this project?

A2 [JET]: We will make a recommendation that is based on the results of this project and



propose to SOK at a final seminar. We would like to discuss a recommendation with SOK before a final seminar.

Q3 [JKO] : Isn't it necessary to count how many people visited the website for monitoring and evaluation?

A3 [SOK] : We think that it is necessary to count a visitor of our website.

Q4 [JKO] : Are there any plans to test the draft SDI standards document as well as the digitization manual?

A4 [JET] : The plan for testing the applicability of the mentioned documents is in place.

Q4 [KISM] : It is strongly requested to use KISM facilities as a place of GIS training course for next time.

4. Confirmation of the progress report

The progress report was finally confirmed by SOK.

5. Any other business

SOK would like to cooperate furthermore with JICA after the project.

JICA Experts Team advised SOK to prepare the requests and the proposal about post-project, and to talk it to JICA.

The members who attended the meeting are listed in Appendix-1.



LIST OF ATTENDANTSKenyan Side:

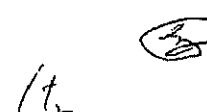
Mr. E. M. MURAGE	Project Manager, Director of Surveys, Ministry of Lands
Mrs. P. W. GITIMU	Deputy Project Manager, Ag. Senior Assistant Director of Surveys (Mapping), SOK
Mr. B. N. OWINO	Senior Assistant Director of Surveys (Hydrographic Surveys), SOK
Mr. F. N. MASAKU	Ag. Senior Assistant Director of Surveys (Adjudication), SOK
Mr. Z. T. KANUNU	Ag. Senior Assistant Director of Surveys (Cadastral), SOK
Mr. P.M. GOTA	Ag. Assistant Director of Surveys (Geodetic and GIS), SOK
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping

Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Experts Team
Mr. A. NISHIMURA	JICA Experts Team
Mr. K. MASUDA	JICA Experts Team
Mr. W. CHE	JICA Experts Team

(JICA Kenya Office)

Mr. T. NAKAZAWA	Assistant Resident Representative
Mr. S. N. Mogere	Monitoring & Evaluation Advisor

5. Minutes of Meeting of the Third JCC

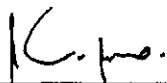
MINUTES OF MEETING
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AGREED UPON BETWEEN
JOINT COORDINATING COMMITTEE

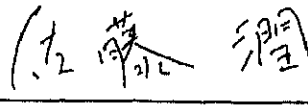
AND

JICA EXPERTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI
30th November, 2007



Kombo MWERO
Chairman
Permanent Secretary
Ministry of Lands, Republic of Kenya



Jun SATO
Chief Advisor
JICA Experts Team
Japan International Cooperation Agency
(JICA)

Japan International Cooperation Agency Experts Team for "The Project for Strengthening of Survey of Kenya (SOK) for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Experts Team") and Joint Coordinating Committee (hereinafter referred to as "JCC") held a meeting concerning the Progress Report of "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" on the 27th day of November 2007, from 9:30 AM to 11:25 AM. The meeting took place at Permanent Secretary's board room at the Ardhi House in a friendly atmosphere.

1. Opening remarks

The chair (Permanent Secretary), Mr. Mwero gave the opening remarks, introduced Kenyan participants and welcomed all participants to the meeting. In his opening remarks, the chair thanked the Japanese Government for the continuous assistance to the Ministry and the Country at large. He said that through the project all sectors could be sensitized to integrate data sets from disparate sources for decision making.

The new Resident Representative of JICA Kenya Office, Mr. Takahashi introduced himself and also gave his remarks.

2. To review the overall progress of the project

After a short introduction by Mr. Sato, Mr. Nishimura continued to explain the progress and achievements of five assigned fields, i.e. 1) map digitization, 2) standardization, 3) GIS training, 4) metadata / network and 5) clearinghouse / web operation, using 24 sheets of slides and a copy of "Project Progress Report" prepared by JICA Experts Team.

In order to evaluate the progress of the project, the presentation focused on the processes adopted and the results achieved so far.

3. Discussions

Note: Q = Questions, A = Answers, C = Comments

JET = JICA Experts Team, JKO = JICA Kenya Office, DPM = Deputy Project Manager,
NBS = National Bureau of Statistics, DOS = Director of Surveys

- Q1 [Chair]: Are there any problems about measuring evaluation indicators? Please explain about it in detail.
- A1 [JET]: After taking a look of working style at SOK, concerns were raised regarding the application of digitization manual to actual works whose efficiency is not measured in SOK. JET thought that it necessary to get statistics for evaluation, for instance, time of work done per map, and we slightly revised PDM on that point after the confirmation by the second JCC meeting in last March.
- Q2 [JKO]: Concerning the preparation of manuals, what will Kenyan counterparts do after Japanese short-term experts have gone back to Japan?

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- A2 [JET]: During our absence in Kenya, we will assign extra work to our counterparts as "homework" in order to continue with their work. We can communicate each other by e-mail at anytime and anywhere. We also think that map digitization group should work with standardization group so that the manual is prepared according to specifications, and a Japanese short-time expert who comes next January will support those two groups.
- Q3 [DPM]: I am always thinking how GIS usage in the country could be promoted so as to achieve the main objective of this project.
- A3 [Chair]: One of resolutions will be what the NSDI newsletters and brochures should be distributed to all Ministries and stakeholders for them to be aware of KNSDI plans and activities. It will be also effective that publicity on GIS should be advertised on media, internet, etc. In future, GIS training courses especially for potential users should be conducted regularly.
- [JET]: JICA is always interested in disseminating the power of GIS in the whole Kenyan society. Our project is not only for in-house capacity building. There will be several ways to disseminate our activities. Continuing GIS training course is a good way to expand GIS users at the grassroots level. At the government level, Kenya has already organized a structure for discussing KNSDI, thus it is necessary to activate it. And according to our experience in Japan, fundamental geospatial data of SOK should be provided free of charge to the public in order to expand GIS users, especially among private companies.
- C1 [Chair]: Users should be notified on the kind of products available to avoid duplication of efforts and wastage of resources. SOK should communicate to specific groups of KNSDI users, e.g. KWS (Kenya Wildlife Service) on the availability of National Parks, Ministry of Water on Wetlands and water bodies, etc. SOK should announce what they are capable of doing and offer consultancy services to other organizations.
- C2 [NBS]: NBS has already provided some information free of charge, but the maps for census are sold at minimum fees. It will be good for us to get some geospatial data by SOK free of charge.
- C3 [DOS]: KNSDI should not be patched to SOK only, thus other Ministries should be called upon to be involved in the KNSDI activities.
- C4 [DPM]: It is good for stakeholders to discuss and come up with a pricing policy of geospatial data. Data ownership and pricing has been noted as a main hindrance to data-sharing and GIS promotion.

4. Confirmation of the progress report

After discussions above, the progress report that JICA Experts Team explained was finally confirmed by JCC participants.

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5. Introduction of the Japanese NSDI Act

Mr. Sato explained on the recent NSDI situation in Japan. Japan has established a new law concerning NSDI in 2007, named "Basic Act on the Advancement of Utilizing Geospatial Information," the purpose of which is to advance policies concerning the advancement of utilizing geospatial information. He introduced the responsibility of the national government in the Act, for instance, developing and carrying out comprehensive policies to disseminate the utilization of geospatial information, developing Fundamental Geospatial Data and its timely revision that will be provided free of charge through internet, in principle.

6. Any Other Business

- a) The chair introduced what the Director of Surveys would travel to Japan in early December to take a course related to the project sponsored by JICA.
- b) Ms. Gitimu suggested that benefits of KNSDI could be communicated through initiatives such as enlisting the assistance of University of Nairobi students of social studies and communication.
- c) Mr. Kumunga suggested that basic geospatial information should be disseminated free of charge on the internet for the general public to download. He gave out an example of the current political situation whereby SOK could provide a map detailing constituencies, district boundaries, political aspirants etc. This would increase the knowledge and demand of GIS.
- d) Mr. Takahashi asked for collaboration between JICA and SOK so as to take the GIS theme to Kenyan publicly.
- e) The chair asked the SOK to maintain the high tempo on its activities and ensure that they have something new to offer to Kenyans. They should also engage Kenyans on daily basis regarding their activities.

The members who attended the meeting are listed in Appendix I.

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LIST OF PARTICIPANTS

Kenyan Side:

Mr. K. MWERO	Permanent Secretary, Ministry of Lands
Mr. E. M. MURAGE	Director of Surveys (Project Manager)
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping
Ms. P. GITIMU	Ag. Senior Assistant Director of Surveys (Mapping), SOK (Deputy Project Manager)
Mr. W. ABUTO	Senior Assistant Director of Surveys (Administration), SOK
Mr. Z. T. KANUNU	Ag. Senior Assistant Director of Surveys (Cadastral), SOK
Mr. P. M. GOTA	Ag. Assistant Director of Surveys (Geodetic & GIS), SOK
Ms. E. A. ODHIAMBO	For Director General, National Bureau of Statistics

Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Experts Team
Mr. A. NISHIMURA	JICA Experts Team, Surveyor
Mr. Y. OYAMA	JICA Experts Team, Photogrammetrist
(JICA Kenya Office)	
Mr. Y. TAKAHASHI	Resident Representative
Mr. T. NAKAZAWA	Assistant Resident Representative

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6. Minutes of Meeting of the Final Report

MINUTES OF MEETING
FOR
THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN

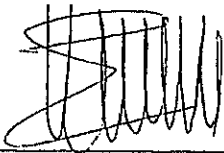
SURVEY OF KENYA

AND

JICA EXPERTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

26th September, 2008



EPHANTUS M. MURAGE

Director of Surveys

Survey of Kenya

Ministry of Lands

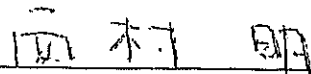


JUN SATO

Chief Advisor

JICA Experts Team

Japan International Cooperation Agency
(JICA)



AKIRA NISHIMURA

Work Director

JICA Experts Team

Japan International Cooperation Agency
(JICA)

Survey of Kenya (hereinafter referred to as "SOK") and Japan International Cooperation Agency Experts Team for "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Experts Team") held a draft final report meeting concerning "The Project for Strengthening of Survey of Kenya for GIS Promotion in the Republic of Kenya" on the 19th day of September 2008, from 9:45 to 11:40. The meeting took place at the meeting room of Kenya Institute of Surveying and Mapping (herein after referred to as "KISM") in a friendly atmosphere.

1. Opening Remarks

The chair (Director of Surveys), Mr. Murage gave the opening remarks.

The chair welcomed members and thereafter requested them to carry out self introduction.

2. Presentation of the final report

The chief advisor of JICA Experts Team explained the outline of the final report of the project and emphasized that the project has been completed successfully and the necessary results has been achieved.

After that, JICA Experts Team explained the draft final report and emphasized on the following points at the presentation.

- a). All work items of the project have been completed successfully.
- b). The explanation to be focused on themes and proposals after the project.
- c). The action plan as the results of discussion by C/P that was established be followed.

3. Discussion - Comments (C)

<SOK = Survey of Kenya, KISM = Kenya Institute of Surveying and Mapping, JET = JICA Experts Team, JKO = JICA Kenya Office>

C1 [JET]: The evaluation team who came to Nairobi on May 2008 evaluated that this project has been implemented successfully, and JET recognizes that the end of this project is the next step for the future. There should be consideration on how to progress with the project achievements.

C2 [SOK]: The counterparts who joined the project should be urged to continue with the training of other SOK'S staff out of the experience they have acquired while implementing the project.

C3 [JKO]: We stress on the need to ensure that the SDI is utilized for the humanity purpose.
The national policy of KNSDI should be based within a legal framework.

C4 [KISM]: We, KISM, might consider to introduce the curriculum of GIS training that was prepared during the project.

C5 [JET]: The counterparts can perform all the activities suggested in the action plan without any finance support. On the dissemination of SDI, SDI data could be provided free of charge at first and then later, the consideration can be made on the charges.



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C6 [SOK]: We will ensure that an adequate SDI is posted on the SOK'S Website, otherwise people rush to Google maps.

C7 [JET]: We suggested that the action plans of the report should be discussed by SOK and based on the results of this discussion, SOK should implement the action plan, if SOK face a technical problem, we might expect to solve any problems by the counter parts who joined the project. We also emphasized on the need for proper leadership in order to implement the action plans.

C8 [SOK]: In order to implement the action plans, We suggested that a meeting will be held every Monday by all Senior Asstants of Director.

4. Confirmation of the draft final report

The draft final report was basically confirmed by SOK.

5. Any other business

SOK would like to cooperate furthermore with JICA after the project.

The members who attended the meeting are listed in Appendix-1.



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LIST OF ATTENDANTSKenyan Side:

Mr. E. M. MURAGE	Project Manager, Director of Surveys, Ministry of Lands
Mr. W. ABUTO	Senior Assistant Director of Surveys (Administration), SOK
Mr. C. N. MBARIA	Senior Assistant Director of Surveys (Geodetic and GIS), SOK
Mr. Z. T. KANUNU	Ag. Senior Assistant Director of Surveys (Cadastral), SOK
Mr. P.M. GOTA	Assistant Director of Surveys (Adjudication), SOK
Mr. A. MICHUKI	Ag. Assistant Director of Survey (Hydrographic), SOK
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping

Japanese Side:

Mr. J. SATO	Chief Advisor of JICA Experts Team
Mr. A. NISHIMURA	JICA Experts Team
Mr. K. YAMADA	JICA Experts Team
Dr. P. LEI	JICA Experts Team
(JICA Kenya Office)	
Mr. S. N. Mogere	Monitoring & Evaluation Advisor

7. Minutes of Meeting of the Fourth JCC

MINUTES OF MEETING
FOR
THE PROJECT
FOR
STRENGTHENING OF SURVEY OF KENYA
FOR
GIS PROMOTION
IN
THE REPUBLIC OF KENYA

AGREED UPON BETWEEN

JOINT COORDINATING COMMITTEE

AND

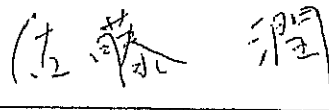
JICA EXPERTS TEAM
(JAPAN INTERNATIONAL COOPERATION AGENCY)

NAIROBI

3rd October, 2008



Ephantus M. MURAGE
Project Manager
Director of Surveys
Ministry of Lands
Republic of Kenya



Jun SATO
Chief Advisor
JICA Experts Team
Japan International Cooperation Agency
(JICA)

Japan International Cooperation Agency Experts Team for "The Project for Strengthening of Survey of Kenya (SOK) for GIS Promotion in the Republic of Kenya" (hereinafter referred to as "JICA Experts Team") and Joint Coordinating Committee (hereinafter referred to as "JCC") held a meeting concerning the draft final report on the 26th day of September 2008, from 2:10 PM to 4:05 PM. The meeting took place at the Permanent Secretary's board room at ARDHI House in a friendly atmosphere.

1. Opening remarks

The Chairman (the Director of Surveys), Mr. Murage gave the opening remarks.

The chair welcomed members and thereafter requested them to do a brief self introduction.

After that, the chair apologized on behalf of the Permanent Secretary that she could not be present in the JCC meeting, and he expressed her interest to be present in the JCC meeting.

Mr. Halake was requested to be present in the JCC meeting by the Permanent Secretary.

Mr. Halake congratulated the counterparts and JICA experts for the work they had done and also appreciated the role played by JICA experts in ensuring the success of the project.

He emphasized that the end of the project was the beginning of much more work on KNSDI and at the end of his speech, he apologized for the lack of presence in the JCC meeting from other department members.

2. To explain the draft final report of the project

The chief advisor of JICA Experts Team congratulated all the counterparts including the project manager and reported that JICA evaluation team had evaluated that the purpose of project was achieved. Then the chief advisor gave the presentation concerning the draft final reports summarized by him briefly.

At the end of the presentation, the chief advisor emphasized that the end of the project was the beginning of works by SOK and hence should move forward to attain the future goal.

After that, JICA Experts, Mr. Nishimura explained the draft final report. In the explanation, he emphasized the following points.

- a). All work items of the project have been completed successfully.
- b). The training in Japan was implemented effectively.
- c). The explanation to be focused on themes and proposals after the project.
- d). The action plan as the results of discussion by C/P that was established be implemented.

3. Discussion on the draft final reports.

There were a lot of comments concerning the process, the results, the themes and the proposal after the project as follows.

- a). The comments of the process and the results

* JICA has provided needed materials, software and a lot of technical transfer from JICA experts to counterparts.

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- * The construction of network, development of websites and clearing house has been achieved by the counterparts with the support by the JICA experts.
- * SOK is quite capable of handling the KNSDI activities.
- * A lot of GIS training had been carried out and many more people have shown interest in wanting to be trained.
- * The results of the Project should be applied in the concerned fields.

b). The comment of the themes and the proposals

- * The action Plan should be converted into PDM in order to continue with the project activities and data sharing.
- * The counterparts were requested to make Action Plan activities in detail.
- * JICA experts were requested to think of coming back to check on the progress of the KNSDI project.
- * It should be discussed that the fundamental data be shared freely.

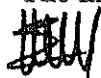
c). Other comments

- * The formulation of policy document for geographic dissemination has been prepared and improvements on the document made.
- * The Cabinet memo related to the policy should be presented to cabinet for approval by cabinet in order to come up with a legal framework
- * Reminded that SOK leadership is responsible for good management and planning of the KNSDI activities to succeed.
- * The policies of dissemination for the geographic information are very good and the weakness is in the implementation hence good leadership is needed.
- * The global mapping data was suggested to be posted on the website to disseminate a geographic information.
- * It should be discussed adequately that the fundamental data should be shared freely.

4. The resolutions of the meeting were as follows:

1. The JCC confirmed the draft final report of the project that was prepared by JICA Experts Team.

The members who attended the meeting are listed in Appendix-1.



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LIST OF ATTENDANTSKenyan Side:

Mr. E. M. MURAGE	Project Manager, Director of Surveys, Ministry of Lands
Mr. J. G. HALAKE	Deputy Director of Surveys, Ministry of Lands
Mr. P.M. GOTA	Assistant Director of Surveys (Adjudication), SOK
Mr. A. M. YUSUF	Ag. Assistant Director of Surveys (Hydrographic), SOK
Mr. G. W. MWANGI	Economist, Ministry of Lands
Mr. C. T. MUTURI	Chief Photogrametrist, SOK
Mr. B. M. KUMUNGA	Principal, Kenya Institute of Surveying and Mapping

Japanese Side:

(JICA Kenya Office)

Mr. K. KAWAZUMI

Mr. T. NAKAZAWA

Mr. S. N. MOGERE

Deputy Resident Representative
 Assistant Resident Representative
 Monitoring & Evaluation Advisor

(JICA Expert Team)

Mr. J. SATO

Mr. A. NISHIMURA

Mr. K. YAMADA

Dr. P. LEI

Chief Advisor of JICA Experts Team
 JICA Experts Team
 JICA Experts Team
 JICA Experts Team



8. List of Gathered Materials

List of Gathered Materials

Title	Contents	Quantity	Remarks
	No material gathered		



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