

11. 研修員の待遇

1) 研修員の病気、事故、災害等

イ. 研修員は、研修期間中に発生した事故や病気について、国際協力事業団が交付するメディカルカードを医療機関に提示することで、無料で治療を受けることができる。

ロ. また、研修実施中の災害等に関しては、国際協力事業団の規定により保証給付が受けられる。

2) 滞在費

国際協力事業団の規定に基づき、日本国政府から本コースの研修員に滞在費等の経費が支給される。

ア. 各国の国際空港～東京間のビジネスクラス往復航空券

イ. 国際協力事業団筑波国際センターにおける宿泊（朝食費及び夕食費の一部を含む）の他、1日当たり3,594円的生活費。

その他の支度料(30,000円)、書籍費(7,000円)、資料送付料(4,000円～25,000円 地域別)が来日時に支払われる。

ウ. 日本に到着後、発生した傷病に対する医療費

エ. 研修旅行に伴う費用

研修旅行における宿泊費は原則宿泊先に支払われる。生活費については、宿泊先により1日あたり3,594円、4,194円または4,935円が研修員に支払われる。

3) 修了証書

このコースを修了した研修員に対し、国際協力事業団は修了証書を発給する。

付表-1

平成9年度「環境地図」コース研修日程

月日	曜日	午前	講師名	手法	午後	講師名	手法
5/26	月	休日					
27	火	ブリーフィング			オリエンテーション		
28	水	オリエンテーション			"		
29	木	"			"		
30	金	"			"		
31~6/1	土日	休日					
2	月	地球地図概説	環境企画官(企画官)	L	開講式/研修ガイダンス	院長他/企画官	L
3	火	国土地理院概要	地理第三課長補佐(補佐)	L	科学館/NASDA見学	環境係	O
4	水	測量法/行政解説	建設専門官	L	宇宙測地技術全般	測地技術開発室長	L
5	木	GPS測地網概説	衛星測地課長補佐	L	国土地理院の国際協力	国際交流室長	L
6	金	デジタル修正	地形第三係長	L	カントリーレポート準備	補佐	L
7~8	土日	休日					
9	月	空間データ基盤	国土基本図課長補佐	L	中小縮尺地図作成	地図編集課長	L
10	火	デジタル化技術	写真地図情報課長補佐	L	海岸・湖沼の環境調査	地理二課技術専門員	L
11	水	衛星地形図作成手法	地理第三課長	L	地球地図作成手法	補佐	L
12	木	カントリーレポート発表	国際交流室長, 企画官	L	カントリーレポート発表	国際交流室長, 企画官	L
13	金	課題研究	補佐	L	課題研究	補佐	L
14~15	土日	休日					
16	月	研修旅行(北海道/東北)	地理第三課技術専門職	O	研修旅行(北海道/東北)	地理第三課技術専門職	O
17	火	研修旅行(北海道/東北)	地理第三課技術専門職	O	研修旅行(北海道/東北)	地理第三課技術専門職	O
18	水	研修旅行(北海道/東北)	地理第三課技術専門職	O	研修旅行(北海道/東北)	地理第三課技術専門職	O
19	木	研修旅行(北海道/東北)	地理第三課技術専門職	O	研修旅行(北海道/東北)	地理第三課技術専門職	O
20	金	研修旅行(北海道/東北)	地理第三課技術専門職	O	研修旅行(北海道/東北)	地理第三課技術専門職	O
21~22	土日	休日					
23	月	地球環境と農業	環農技研 袴田	L	地球環境と農業	環農技研 袴田	L
24	火	課題研究(GeoStar)	技術専門職, 環境係	P	課題研究(GeoStar)	技術専門職, 環境係	P
25	水	課題研究	補佐	L	課題研究	補佐	L
26	木	地球環境と食料	国際農林 大賀	L	地球環境と食料	国際農林 大賀	L
27	金	ディスカッション	環境企画官, 補佐	L	課題研究	補佐, 環境係	P
28~29	土日	休日					
30	月	リモセン技術	千葉大 本多	L	リモセン技術	千葉大 本多	L
7/1	火	地球環境把握技術	国環研 安岡	L	地球環境把握技術	国環研 安岡	L

*L…講義 P…実習 O…見学, 研修旅行

月日	曜日	午前	講師名	手法	午後	講師名	手法
7/2	水	リモセン地形計測	技術開発二係長他	P	リモセン地形計測	技術開発二係長他	P
3	木	リモセン画像計測	国土環境モニタ係長他	P	リモセン画像計測	国土環境モニタ係長他	P
4	金	地球環境と温暖化	三重大 朴	L	地球環境と温暖化	三重大 朴	L
5~6	土日	休日					
7	月	研修旅行(近畿地方)	補佐	O	研修旅行(近畿地方)	補佐	O
8	火	研修旅行(近畿地方)	補佐	O	研修旅行(近畿地方)	補佐	O
9	水	研修旅行(近畿地方)	補佐	O	研修旅行(近畿地方)	補佐	O
10	木	研修旅行(近畿地方)	補佐	O	研修旅行(近畿地方)	補佐	O
11	金	研修旅行(近畿地方)	補佐	O	研修旅行(近畿地方)	補佐	O
12~13	土日	休日					
14	月	地理院のGISへの取組	企画調整課調整官	L	GIS事例概説	地理調査技術開発室長	L
15	火	日本地図センター見学	環境係	O	RESTEC見学	環境係	O
16	水	GISの応用/利用	東大生研 柴崎	L	GISの応用/利用	東大生研 柴崎	L
17	木	GISの応用/利用	東大生研 柴崎	L	GISの応用/利用	東大生研 柴崎	L
18	金	水準原点見学	環境係	O	会社(東京カーブ)見学	環境係	O
19~20	土日	休日					
21	月	休日(済の日振り替え)					
22	火	デジタル手法	基本数値係長他	P	デジタル手法	基本数値係長他	P
23	水	地球環境	地調 衣笠	L	地球環境	地調 衣笠	L
24	木	地理情報	千葉大 建石	L	地理情報	千葉大 建石	L
25	金	リモセン現地調査	技術専門職、環境係長他	P	リモセン現地調査	技術専門職、環境係長他	P
26~27	土日	休日					
28	月	課題研究	技術専門職、環境係	P	課題研究	技術専門職、環境係	P
29	火	課題研究	技術専門職、環境係	P	課題研究	技術専門職、環境係	P
30	水	課題研究	技術専門職、環境係	P	課題研究	技術専門職、環境係	P
31	木	課題研究	技術専門職、環境係	P	課題研究	技術専門職、環境係	P
8/1	金	課題研究	技術専門職、環境係	P	課題研究	技術専門職、環境係	P
2~3	土日	休日					
4	月	課題研究	補佐、環境係	P	課題研究	補佐、環境係	P
5	火	課題研究	補佐、環境係	P	課題研究	補佐、環境係	P
6	水	特別講義：将来の測量	院長	L	課題研究	補佐、環境係	P
7	木	課題研究発表会	環境企画官、補佐	L	国土地理院閉講式		
8	金	TBIC閉講式			帰国準備		
9	土	帰国指定日					
10	日	帰国指定日					

* L…講義 P…実習 O…見学, 研修旅行

LIST OF PARTICIPANTS IN "GLOBAL MAPPING (ENVIRONMENT)"
(平成9年度 環境地図コース 研修員リスト)

研修期間：平成9年5月24日～9月8日
受入機関：建設省国土地理院

No	Country (国名)	Name (名前)	Present Post (現職・所属先)	Official Address (勤務先住所)
1	Bangladesh バングラデシュ	Mr. Abul Kalam カラム	Assistant Superintendent of Survey Survey of Bangladesh バングラデシュ測量局 監督補佐	Survey of Bangladesh Tejgaon, Dhaka-1208 Bangladesh
2	China 中国	Mr. Mingjie Huang フアング	Program Officer & Director of GIS Lab. Nature Environment Management, Guizhou Environmental Protection Bureau Guizhou 環境保護局, 自然環境管理部 プログラム担当, GIS 研究所部長	No. 83 Zunyi Road, Guiyang, Guizhou, China
3	Philippines フィリピン	Mr. Arturo M. Flores フロレス	Engineer III Project Management Office Department of Public Works & Highways 土木高速道路省 プロジェクト管理室 技師III	Region IV-B Compound, EDSA, Quezon City, Philippines
4	Tanzania タンザニア	Mr. Talib Khatib Shaaban シャバーバン	Chief Surveyor Commission for Lands & Environment, Ministry of Water, Construction, Energy, Land and Environment 水・エネルギー・土地・環境省 土地・環境部 主任測量士	P.O. Box 811 Zanzibar Tanzania
5	Malaysia マレーシア	Mr. Hassim bin Baruddin バルディン	Digital Mapping Surveyor Department of Survey & Mapping マレーシア測量局 デジタル地図測量士	CAMS Section, Department of Survey & Mapping Jalan Semarak 50576 Kuala Lumpur, Malaysia

研修関係機関及び関係者リスト

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地理調査部	環境地理情報企画官	丸山 弘通
	地理第三課長	政春 尋志
	地理第三課長補佐	田中 庸夫

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課 長 代 理	金 子 健 二
担 当 職 員	村 瀬 憲 昭
研 修 監 理 員	丸 山 かつ代

付表一 4

国別年度別受入実績表

国名	平成6年度	平成7年度	平成8年度	計
(ア ジ ア)				
バングラデシュ	1		1	2
中 国	1	1		2
マレーシア	1	1	1	3
ネパール			1	1
フィリピン			1	1
タイ			1	1
(中 近 東)				
モロッコ	1	1	1	3
サウディ・アラビア	1			1
チュニジア			1	1
(アフリカ)				
ケニア		1		1
ニジェール	1			1
(中 南 米)				
コスタ・リカ		1		1
ペルー	1			1
計	7	5	7	19

付表-5

平成9年度割当国と応募状況

	割 当 国	応募者数	受 入 数	備 考
1	バングラデシュ	2	1	来日中止, 代替者受入 定員オーバー
2	中 国	1	1	
3	マレーシア	1	1	
4	フィリピン	1	1	
5	タンザニア	2	1	
6	セント・ヴィンセント	0	0	
7	チ リ	0	0	
	計	7	5	

「測量技術II」コース帰国研修員リスト

付表2 帰国研修員リスト

COUNTRY	NAME	POST	PRESENT OCCUPATION		備考
			POST	NAME OF ORGANIZATION	
BANGLADESH	Mr. NAYON CHANDRA SARKER (D92-00266)	TECHNICAL ASSISTANT (GEODESY)	TECHNICAL ASSISTANT	GEODETIC DETACHMENT SURVEY OF BANGLADESH, MINISTRY OF DEFENSE	
BANGLADESH	Mr. GANESH CHANDRA ROY (D93-02386)	TECHNICAL ASSISTANT	TECHNICAL ASSISTANT	GEODETIC DETACHMENT SURVEY OF BANGLADESH	
BANGLADESH	Mr. Md. Rezaul KARIM (D94-04670)	CHARGE OFFICER	CHARGE OFFICER	DIRECTORATE OF LAND RECORDS & SURVEYS, MINISTRY OF LAND ADMINISTRATION	
BANGLADESH	Mr. Parvez Ahmed KHAN (D95-05004)	ASSISTANT SURVEYOR GENERAL	ASSISTANT SURVEYOR GENERAL	TOPOGRAPHIC DEPARTMENT SURVEY OF BANGLADESH	
BANGLADESH	Mr. Md. Riazuddin (D96-05485)	SUB-ASSISTANT SUPERINTENDENT	SUB-ASSISTANT SUPERINTENDENT	DRAWING OFFICE SURVEY OF BANGLADESH	
NEPAL	Mr. DEEPAK SHARMA DAHAL (D90-01060)	SURVEY OFFICER	SURVEY OFFICER	TOPOGRAPHICAL SURVEY BRANCH FIELD SECTION	
NEPAL	Mr. KALYAN GOPAL SHRESTHA (D91-00603)	SURVEY OFFICER	SURVEY OFFICER	TOPOGRAPHICAL SURVEY SURVEY DEPARTMENT	
NEPAL	Mr. UMESH KUMAR JOSHI (D91-07930)	INSTRUCTOR	INSTRUCTOR	SURVEY DEPARTMENT SURVEY TRAINING CENTRE	
NEPAL	Mr. BAL BAHADUR BHANDARI (D93-02483)	SURVEY OFFICER	SURVEY OFFICER	SURVEY DEPT. NEPAL MINISTRY OF LAND REFORM & MANAGEMENT GEODETIC SURVEY BRANCH G.P.S. SECTION	
NEPAL	Mr. Hari Man TUMBAHANGFE (D94-04673)	SURVEY OFFICER	SURVEY OFFICER	TOPOGRAPHICAL SURVEY BRANCH SURVEY DEPARTMENT MINISTRY OF LAND REFORMS & MANAGEMENT	
NEPAL	Mr. Govinda Prasad Adhikari (D96-05305)	SURVEY OFFICER	SURVEY OFFICER	SURVEY DEPARTMENT	

「環境地図」コース帰国研修員リスト

COUNTRY	NAME	PRESENT OCCUPATION		備考
		POST	NAME OF ORGANIZATION	
BANGLADESH	Mr. Brigadier TU Muhammad Iftakharul BASHAR (D94-08019)	JOINT SECRETARY	GOVERNMENT OF THE PEOPLES REPUBLIC PLANNING & DEVELOPMENT DIVISION, MINISTRY OF DEFENCE	
BANGLADESH	Mr. KAZI Shafayetul Haque (D96-03994)	DIRECTOR	SURVEY OF BANGLADESH DEFENSE SURVEY DIRECTORATE	
BANGLADESH	Mr. Md. Abul KALAM (D97-04081)	ASSISTANT SUPERINTENDENT OF SURVEY	SURVEY OF BANGLADESH DEFENSE SURVEY DIRECTORATE	
NEPAL	Mr. Raja Ram CHHATKULI (D96-04365)	CHIEF SURVEY OFFICER	TOPOGRAPHICAL SURVEY BRANCH CARTOGRAPHY DIVISION, SURVEY DEPARTMENT	

付表 3(1) 質問票集計結果 (研修員所属先, 測量技術 II)

FOLLOW-UP SURVEY FOR EX-PARTICIPANTS OF TRAINING COURSE
TSUKUBA INTERNATIONAL CENTER (TBIC)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
AND
GEOGRAPHICAL SURVEY INSTITUTE (GSI)

QUESTIONNAIRE FOR ORGANIZATION CONCERNED
ON
GROUP TRAINING COURSE
IN
SURVEYING AND MAPPING II

I. ORGANIZATION OUTLINE

(1) Name, type of Organization and size

1) Name of Organization: (N:Nepal, B:Bangladesh)

(N) Survey Department, Ministry of Land Reform and Management His Majesty's
Government

(B) Directorate of Land Records and Surveys

(N) Min Bgaman, Baneshwo, Kathmandu, Nepal
TEL:402713 FAX:977-1-482957

(B) Tejgaon, Dhaka, Bangladesh 1208
TEL:327090 FAX:880-2-813260

2) Please indicate the type of your organization. Please choose on the
following items.

- | | |
|----------------------|----------|
| a) Governmental | (N), (B) |
| b) Semi-Governmental | () |
| c) Private | () |
| d) Other Type | () |

What is it? Please specify.

(N) National Surveying and Mapping organization of Nepal

3) How many staffs does your organization have?

Number of staffs:

1.Total (N) 2008, (B) 6000

2.Research/Technical (N)2062

3.Administration (N)736,

(2) Activities, responsibilities and organization chart

1) What are the main activities and responsibilities of your organization?

- (N) *Geodetic Survey
*Cadastral Survey and Mapping
*Topographical and land Resources Surveying and mapping
*Other activities related to surveying and mapping
- (B) 1.Cadastral survey
2.Preparation of land records (ownership title, certificate)
3.Maintenance of international boundary
4.Develop a LIS

* If you have your organization chart, please attach it.

(3) Relation with Japan

1) How many of your staff members have participated in JICA training course in the past? And what were the Courses they participated in.

1.Total (N)15, (B)1 (Included Group and Individual Training Course)

2.SURVEYING AND MAPPING II TRAINING COURSE
(N) 6 (B)1

3.Other JICA's Courses (N) 9 including individual training and JOCV counterpart, (B)none

2) Does your organization have any joint project or program (research/training) with Japanese institute(s) except JICA?

Yes (), No (N) (B)

If it does, could you please specify the name of program and/or project?

3) Does your organization have similar relationship with any other countries?

Yes (N), No (B)

Please specify the name of program and/or project, if possible.

(N) Western Nepal Topographic Mapping, with the assistance from Govt. of Finland.

4) Do you have any request about a joint program and/or project with Japanese research institute?

Yes (N)(B), No ()

In case of "Yes", what is it?

- (N) · Request for assistance for Survey Training Center in the pipeline.
- Other projects being formulated at his Majesty's Govt. level.
- (B) We want technical assistance from JICA for developing Land Information System.

II. APPLICATION AND NOMINATION OF CANDIDATE TO JICA TRAINING COURSE

(1) Procedure of selection

1) Please let us know the procedure of candidate nomination

- (N) The organization advertise for candidate and judge from his/her aptitude and qualification
- (N) After judging from staff's aptitude and qualification, the origination order the candidate to go to Japan
- (N) Others (Please specify the procedure below).
 - (N) Seniority on the past.

2) How long does it take you to choose the final candidate(s) for the SURVEYING AND MAPPING II TRAINING COURSE?

- (N)(B) within one month
- () more than one month

If it takes more than one month, how many months? () months

3) What are the standards of candidate selection for the SURVEYING AND MAPPING II TRAINING COURSE?

Please choose any out of the following.

- (N) present post of candidate
- () research record
- (N)(B) service record
- () others (Please specify below.)
- (N) educational background
- () intention
- () interchange between the training institute

(2) General Information (G.I.): brochure of the course from JICA

1) Did you get enough information from the "G.I." for selecting final candidate(s), i.e., prospective participant(s) in the training course? Should any other piece of information be added to the "G.I."?

- (N) (B) Yes, it is enough.
- () No, it is not enough.

In cases of "No", please specify the information to be added.

2) Do you usually receive "G.I." well in advance?

(N) Yes (We didn't receive information for 1997-98 course.)

(B) No, it arrives late.

(3) Number of prospective applicants/candidates

1) How many applicants/candidates do you have every year for SURVEYING AND MAPPING II TRAINING COURSE?

(N) 7-12 applicants

(B) 15

2) How many staffs in your organization do you consider are adequate for SURVEYING AND MAPPING II TRAINING COURSE in the future?

(N) 12 staffs in the next 5 years

(B) 50

III. EVALUATION OF THE TRAINING PROGRAM

(1) Results/achievements of the training

Have you found any good results/achievements in your staff after SURVEYING AND MAPPING II TRAINING COURSE at the point of the following? Please specify if available.

a) the method of researching

(N) Improved

b) the knowledge/technique(s)

(N) Improved

(B) Acquired knowledge is being utilized for adopting modern map preparation and Survey System.

c) Others

(N) General performance of the participant staff has improved.

(2) Applicability of the knowledge/technique(s) obtained through the training in Japan

1) Are your ex-participants applying the knowledge/technique(s) obtained through the training in Japan to their works back at home?

(N)(B) a lot, () to some extend, () no application

2) If there are some examples of good application, please specify them.

(N) We have observed that they

• suggest new idea

• Make decisions and are more confident

(B) 1. Planning for cadastral survey using total station and GPS

- 2. Planning to develop a LIS for Bangladesh
- 3. Planning to density the Geodetic controls

3) In case of "no application", why do you think the reason?

4) Do you try to assign ex-participants to responsibilities/posts where they can make good use of the knowledge/technique(s) obtained through SURVEYING AND MAPPING II TRAINING COURSE?

(N) (B) Yes, () No

5) In case of "Yes", please give an example to illustrate specifically how?

- (N) They are posted to positions best related with their course.
Example: Mr. K.G. shreshta who used to make in Topographic Surveying is now Head of GPS section at Geodetic Survey.
- (B) 1. Densification of Geodetic controls
2. GIS (to develop a LIS)

(3) Expectations for future JICA programs

1) Would you like to continue sending your staff to participate in SURVEYING AND MAPPING II TRAINING COURSE.

(N) (B) Yes, () No

2) In case of "Yes", what/how intense are your expectations?

- (N) Very much. We hope to train 12 staff in the next 5 year.
- (B) We got only one other to send our staff for Surveying and Mapping II training course. After that training he is doing better. So we like to continue sending our staff to participate in the said course.

(4) Compare with other programs

How do you evaluate SURVEYING AND MAPPING II TRAINING COURSE compare with other one?

- level of content: () high, () low, (N) (B) neither
- length: (B) long, () short, (N) neither
- quantification: () difficult, () easy, (B) neither
- number of participants (N) many, (B) not many, () neither

IV. IMPROVEMENT OF FUTURE SURVEYING AND MAPPING II TRAINING COURSEs

(1) Knowledge/technique(s) your organization hopes to obtain from SURVEYING AND MAPPING II TRAINING COURSE

In future, what knowledge/technique(s) would you expect your training participants to acquire from the future SURVEYING AND MAPPING II TRAINING COURSE.

(N) · GIS/LIS

· Digital Mapping / Photogrammetry

· GPS

· Trainer's training

(B) In addition to the existing syllabus cadastral survey and LIS may be emphasized.

(2) Improvements of SURVEYING AND MAPPING II TRAINING COURSEs

If you have any opinions/comments regarding the improvements of future courses, please specify as to the following.

a) Duration of program

(N) \pm 1 year

(B) Fair

b) Curriculums

(N) Keep up-to-date as per the current development.

(B) May have more practical classes.

c) Contents of training

(N) O.K.

(B) Cadastral Survey may be added.

d) Technique levels

(N) Theoretical and case study O.K. Need more intensive practice.

(B) Good

e) Others

(N) Modalities for assessment and evaluation of the level of achievement of participants needs to be strengthened.

V. JICA AFTER SERVICES

JICA conducts aftercare services for ex-participants of SURVEYING AND MAPPING II TRAINING COURSE. If you (as an organization) have any opinions/requests concerning this services. Please specify here.

(N) Provide to SD and participants the following.

- Newsletters
- Journals
- Research papers

Some provision of alumni meetings and refresher courses could be beneficial.

(B) JICA can supply new books and journals to the ex-participants.

VI. MAJOR PROBLEMS OF SURVEYING AND MAPPING II IN YOUR COUNTRY

Please describe the present problems in your country and/or in your organization.

- (N)**
- Lack of adequate trained new power
 - Lack of modern equipment
 - Insufficient funding
 - Problem of coordination and standardization

(B) Geodetic control points are not sufficient. It should be more densified. We have dearth of Surveyor and Mapping experts.

VII. REQUEST TO JICA

If you have any request to JICA, please specify here.

(N) we would be interested to carry out joint projects with Japan JICA where ex-participants can be evolved. Some of them are:

- Digital mapping of urban centers (large scale mapping)
- Development of GIS and Topographic database.
- Geodetic and geophysical research
- Strengthening of Survey Training Center

(B) JICA can conduct a thorough study on Surveying and Mapping activities in Bangladesh.

Thank you very much for your kind cooperation.

付表 3(2) 質問票集計結果 (帰国研修員, 測量技術 II)

FOLLOW-UP SURVEY FOR EX-PARTICIPANTS OF TRAINING COURSE
TSUKUBA INTERNATIONAL CENTER (TBIC)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
AND
GEOGRAPHICAL SURVEY INSTITUTE (GSI)

QUESTIONNAIRE FOR EX-PARTICIPANT
ON
GROUP TRAINING COURSE
IN
SURVEYING AND MAPPING II

I. PERSONAL DATA

(1) Name in full (N: Nepal, B: Bangladesh)

Mr. Deepak Dahal (De. N)	Mr. Md. Riazuddin (Md. B)
Mr. Kalyan Gopal Shrestha (Ka. N)	Mr. Parvez Ahmed Khan (Pa. B)
Mr. Umesh Kumar Joshi (Um. N)	Mr. Md. Rezaul Karim (Re. B)
Mr. Bal Bahadur Bhandari (Ba. N)	Mr. Ganesh Chandra Roy (Ga. B)
Mr. Hari Man Tumbhangpe (Ha. N)	Mr. Nayon Chandra Sarken (Na. B)
Mr. Govinda Prasad Adhikari (Go. N)	

(2) Home address

(3) Year of your participation on SURVEYING AND MAPPING II TRAINING COURSE
(De. N)1990, (Ka. N)1991, (Um. N)1992, (Ba. N)1993, (Ha. N)1994
(Go. N)1996, (Md. B)1996-1997, (Pa. B)1995, (Re. B)1994-1995, (Ga. B)1993
(Na. B)1992

II. YOUR PRESENT ORGANIZATION OUTLINE

(1) Name, type of organization and size

1) Name of your organization

(De. N) Survey Department, Topographical Survey Branch
(Ka. N) Geodetic Survey Branch, Survey Department
(Um. N) Topographical Survey Branch
(Ba. N) HMG., Survey Department
(Ha. N) Topographical Survey Branch, Survey Department
(Go. N) Survey Department, Survey Section, Chitwan
(Md. B) Survey of Bangladesh
(Pa. B) Survey of Bangladesh
(Re. B) Directorate of Land Records and Surveys
(Ga. B) Survey of Bangladesh
(Na. B) Survey of Bangladesh

(2) Your present title in your organization

(De. N) Survey Officer
(Ka. N) Chief Survey Officer

- (Um. N) Survey Officer
- (Ba. N) Survey Officer (Office Supervisor, Field Unit)
- (Ha. N) Chief Survey Officer
- (Go. N) Survey Officer
- (Md. B) Sub Assistant Superintendent
- (Pa. B) Assistant Surveyor General
- (Re. B) Charge Officer
- (Ga. B) Technical Assistant
- (Na. B) Technical Assistant

If your title changed after your SURVEYING AND MAPPING II TRAINING COURSE participation, please describe recent two titles and activities.

3) Please indicate the type of your present organization. Please choose on the following items.

- a) Governmental (De. N) (Ka. N) (Um. N) (Ba. N) (Ha. N)
(Go. N) (Md. B) (Pa. B) (Re. B) (Ga. B) (Na. B)
- b) Semi-Governmental ()
- c) Private ()
- d) Other Type ()

What is it? Please specify
(Go. N) National Surveying and Mapping Organization

4) How many staffs does your organization have?

- (De. N) 50 (Ka. N) 300 (Um. N) 2808 (Ba. N) 1000
- (Ha. N) n.a. (Go. N) 2808
- (Md. B) 893 (Pa. B) 893 (Re. B) 6000 (Ga. B) 893 (Na. B) 893

(2) Activities, responsibilities and organization chart

What are the main activities of your organization and what are your activities and responsibilities in it?

- (De. N) We are working jointly to prepare Topographical base map of Nepal excluding Lumbini zone. 292 sheets of eastern Nepal are already published in 1:25000 and 1:50000 scale. I am responsible for cartographic compilation work supervising 30 to 40 people.
- (Ka. N) Establishing and expansion of Geodetic control networks-Horizontal & Observations. My responsibility is to look after GPS surveying section and its activities are all related GPS survey works.
- (Um. N) The main responsibilities of Survey Department is to perform all tasks related to surveying and mapping works and to provide relevant geometric information, data and maps to various disciplines of HMG/Nepal.
- (Ba. N) Establishment of geodetic control points and provide lower order control points for

topographical and cadastral survey. To prepare topographical maps on different scale. Now I am working in geodetic survey branch as a field group leader.

- (Ha. N) At present my organization is mainly involved for preparing 1:25000 scale national base map of the whole country. This work is jointly undertaken by my organization & FINN MAP company. In this project, I am working in field unit and my responsibility is to look after field preparation work, checking & editing of field completed map sheets.
- (Go. N) The main activities of our organization is to perform all kinds of surveying and mapping works and to provide necessary information maps etc.. I am working as an in-charge in one of the district survey sections which is related to cadastral surveying and its maintenance.
- (Md. B) Survey of Bangladesh is the only national organization to carry out survey and mapping activities in Bangladesh. Organization activities is establish of trigonometric & Geodetic control points, all kinds of topographic map production & maintenance of survey data. Now my responsibilities to survey work is the tied for collection all kinds of data.
- (Pa. B) As assistant surveyor general, I am the technical advisor to surveyor general of Bangladesh. Planning surveying activities of Bangladesh.
- (Re. B) 1. Cadastral survey, Preparation of village map (1:4000, 1:2000, 1:1000) of whole Bangladesh and preparation of land Records (ownership certificate), now this organization has tried to modernize its activities Total station. GPS to capture field data and developing LIS using (Arc Info. Arc view). I am officer in charge of modernization activities.
- (Ga. B) My activities and responsibilities are to supervise Geodetic & Topographic Survey works in the field. Collection of tidal data and Process it.
- (Na. B) Survey of Bangladesh is the Govt. Organization responsible for Geodetic and Topographic Survey, Topographic map production and maintenance of Survey data and Maps. My responsibilities are to supervise Geodetic & Topographic Survey works in the field, Collection of Tidal data and Process it.

* If you have the organization chart, please attach it. (if available)

III. EVALUATION OF SURVEYING AND MAPPING II TRAINING COURSE

(I) Ex-participant's evaluation of the course

1) After returning to your country, do you feel that the SURVEYING AND MAPPING II TRAINING COURSE has been useful?

To what extent were your expectations satisfied? Please check.

Curriculum:	(De. N) (Um. N) (Ba. N)(Ha. N) (Go. N) (Md. B) (Pa. B)(Re. B) (Na. B) Very good (Ka. N) (Ga. B) Good
Course Management:	(De. N) (Ka. N) (Um. N) (Ba. N)(Ha. N)(Go. N) (Md. B) (Pa. B)(Re. B) (Ga. B) (Na. B)Very good
Contents:	(De. N) (Um. N) (Ba. N)(Ha. N) (Go. N) (Pa. B) (Na. B)Very good (Ka. N) (Md. B)(Re. B) (Ga. B)Good

Training Methodology : (De. N) (Ka. N) (Um. N) (Ba. N) (Ha. N) (Go. N)
(Md. B) (Pa. B) Very good
(Re. B) (Ga. B) Good

2) If your answer is "Fair", "Poor" and "Very poor", please explain your answer briefly.

3) After the SURVEYING AND MAPPING II TRAINING COURSE, have you had any personal promotion in your position.

(Ka. N) Yes, (De. N) (Um. N) (Ha. N) (Go. N) (Md. B) (Pa. B) (Re. B) (Ga. B) (Na. B) No

(Re. B) - Here seniority is the key criterion of promotion. I am going to be promoted in near future.

In case of "Yes", and if possible, please briefly mention how and when?

(Ka. N) In 1996, I got promotion through performance evaluation.

4) After the SURVEYING AND MAPPING II TRAINING COURSE, have you been trying to share with other staff in your organization the knowledge and techniques obtained from your SURVEYING AND MAPPING II TRAINING COURSE?

(De. N) (Um. N) (Ka. N) (Ba. N) (Ha. N) (Go. N) (Md. B) (Pa. B) (Re. B) (Ga. B) (Na. B) Yes,
() No

In the case of "Yes", and if possible, please give an example to illustrate specifically how?

(De. N) My job is to supervise day to day work done by juniors. Whenever somebody needs assistance I fully assist them to complete the job.

(Um. N) I always share my knowledge and skills to other staffs during the period of training for trainees, at the time of supervising junior staffs and accomplishing day to day routine works.

(Ka. N) I have tried and have been applying the knowledge and techniques acquired from the said training course with my colleague.

(Ba. N) I fully share and utilized the knowledge and techniques which I obtained from "Surveying & Mapping Course" e.g. GPS survey, control point survey etc.

(Ha. N) Previously, junior staffs who works in field completion usually had no stereo vision with naked eye but now I help them and became capable to get stereo vision with naked eye which helps them a lot in field verification work.

(Go. N) Since I am coming back very recently from Japan, there is no any concrete example to illustrate.

(Md. B) When supervise the drawing work & topographic survey work then I try to share with other staff of my knowledge. When I can manage time I try to share digital map, remote sensing, map making system etc. which I obtained from surveying & mapping II Training course.

(Pa. B) Yes, after finishing this course I am conducting training course in my organization in biggest of knowledge I obtained from Survey & Mapping II course.

(Re. B) Before my training there was no good coordination between this organization and the organization which is responsible for Geodetic network. I have made my

authority underground that there is an important need to density the geodetic controls. They are thinking to density the geodetic controls with the help of SOB.

(Ga. B) I am working in Geodetic Survey as a supervisory offer, so I have been trying to share with other staff of my organization the knowledge and techniques related to Geodetic survey, I obtained from the training.

(Na. B) While I supervise the Geodetic and topographic survey works I try to share with other staff of my organization the knowledge and techniques I obtained from Surveying and Mapping II Training Courses.

* As to the following (2) and (3), "the knowledge and techniques" means itself and "the method of researching".

(2) Technical improvement

1) Have your knowledge and techniques improved through the SURVEYING AND MAPPING II TRAINING COURSE?

(Um. N) (Ka. N) (Ba. N) (Ha. N)(Md. B)(Pa. B)(Re. B)(Ga. B)(Na. B) Fairly,
() Somewhat () No
n.a (De. N)

2) In case of "Fairly" or "Somewhat", please give an example(s) of the knowledge and techniques newly acquired through your SURVEYING AND MAPPING II TRAINING COURSE.

(De. N) Digital mapping and photo mapping

(Um. N) Digital mapping techniques, GIS, GPS survey etc. are some examples which has helped to enhance my knowledge and skills through the Survey and Mapping II training course.

(Ka. N) Survey Planning methods and GPS technology are two areas of knowledge nearly acquired through the training course.

(Ba. N) Geodesy, GPS surveying, digital mapping and photogrammetry, Geographical survey, etc.

(Ha. N) I learned much about digital mapping from surveying and mapping II training course.

(Go. N) 1. Application of Geographic Information System(GIS) in cadastral surveying.
2. Acquired new knowledge on VLBI, Lake chart surveying, Land use and Land condition survey, computer assisted technology etc. including GPS, digital mapping GIS and remote sensing.

(Md. B) Through my training course I acquired newly digital map system & remote sensing.

(Pa. B) Yes, my knowledge level of surveying and mapping technology is elevated many fold. Specially in GPS, Geodetic Surveying and Digital Mapping.

(Re. B) I mentioned earlier that we are responsible for large scale map and detailed ownership information. We have maps (1:4000) of whole country and information but we are going to have a digital survey for whole country. For this reason we need controls. I have acquired knowledge about geodetic control survey and its necessity. It is helping me to plan to density the geodetic controls with the technical help of SOB.

(Ga. B) The knowledge and techniques newly I acquired through my surveying and mapping II training course in various field of surveying such as surveying with GPS, Cross Sea leveling, Map digitization etc.

(Na. B) Through my Surveying and Mapping II Training course I have acquired the

knowledge and techniques to use GPS Receiver and Total station in Geodetic and topographic surveying.

- 3) If you do not think you improved/acquired any new/obvious knowledge and techniques, what do you consider the reasons? Please choose any out of the following items.

Difference between levels of training:

- () too high, () too low
() Language barrier
() No interest in the training contents
() Problems in method of instruction
() Other reasons

Please specify.

(3) Applicability

- 1) Are the knowledge and techniques you acquired in the SURVEYING AND MAPPING II TRAINING COURSE useful and applicable to your current work? Please choose one.

(De. N) (Ha. N)(Re. B) Fully,
(Um. N) (Ka. N) (Ba. N) (Go. N)(Md. B)(Pa. B)(Ga. B)(Na. B) Mostly,
() Partly, () Slightly, () Not at all

- 2) In case of "Fully", "Mostly" and "Partly", please specify what knowledge and/or techniques are useful and applicable?

- (De. N) The training which I acquired from your organization was of manual nature, and we are doing our job by the same system(method).
- (Um. N) The methodologies of conducting GPS Survey, Digital Mapping techniques, GIS etc. are mostly useful and applicable.
- (Ka. N) Survey planning technique is useful to my current work.
- (Ba. N) Geodesy, GPS survey, data processing(Adjustment computation) and control point survey is very useful to my current work.
- (Ha. N) I learned techniques & methods of topographic mapping in GSI and now I am surveying and mapping II was very useful.
- (Go. N) Knowledge on geodetic survey especially for establishing control points, Cadastral survey, topographic survey and information technology such as GIS are useful.
- (Md. B) We have not yet available opportunity for applicable. But with in short time we are going to introduce digital map system. We have no scope for academic so survey & Mapping II course is mostly useful for us. Map making, digital, remote sensing is (after introduce) most useful & applicable.
- (Pa. B) It is highly useful in my day to day activities. In the field of GPS surveying and computer mapping, it is obviously useful.
- (Re. B) The course is a managerial course. It includes different methods an techniques of surveying and mapping. My organization is going to develop a comprehensive LIS. We need some mid level officer who has idea about different survey and mapping methods. So my acquired knowledge is being fully utilized.
- (Ga. B) The knowledge and techniques related to Geodetic Survey which I acquired in the

training course are mostly useful and applicable to my current work.

(Na. B) As there is no scope for academic education in Surveying and Mapping in Bangladesh so the knowledge and techniques I acquired in the Surveying and Mapping II training course is mostly useful and applicable to my current work. Specially the use of GPS Receiver and total station is most useful and applicable.

3) In case of "Slightly" and "Not at all", what are the main causes?

- Different type of work at present
- Techniques level gap(s)
- Difference in technical background (Methods etc.)
- Others

Please specify.

4) Which field of SURVEYING AND MAPPING II TRAINING COURSE was most beneficial to your job?

- (De. N) Survey planning and digital mapping (short period) were most beneficial.
- (Um. N) Computer added mapping techniques and GIS are most beneficial to my job.
- (Ka. N) Survey Planning and GPS was beneficial.
- (Ba. N) GPS survey and geodetic survey is most beneficial to my job, because now I am working under Geodetic survey section.
- (Ha. N) Almost all field are beneficial to my job.
- (Go. N) GIS and Digital mapping
- (Md. B) Map making of surveying & Mapping II Training course in most beneficial to my job.
- (Pa. B) In Use of Geodetic and Digital Mapping Part.
- (Re. B) Geodetic Control Survey and GIS.
- (Ga. B) The Geodetic and Topographic Survey of the training course, specially GPS survey is most beneficial to my job.
- (Na. B) The Geodetic and Topographic Survey part of Surveying and Mapping II Training Course is the most beneficial to my job.

5) Have you ever reported a research paper and/or presented orally at an academic meeting about the results of researching obtained from your SURVEYING AND MAPPING II TRAINING COURSE?

(Um. N) (Ba. N) (Re. B) Yes, (De. N) (Ka. N) (Go. N) (Md. B) (Pa. B) (Ga. B) No
(Ha. N) n.a.

In case of "Yes", please give the name of the research paper and/or the academic meeting.

- (Um. N) One my research paper concerning with the precise geodetic survey has been published in the Survey Journal of Nepal.
- (Ba. N) " Control point survey using GPS", Individual study report on in Geographical Survey Institute of Japan.
- (Re. B) Densification of Geodetic controls for cadastral use towards LIS.

IV. TRAINING COURSE IMPROVEMENT

(1) Time allocation: Training course as a whole and among each of the programs

1) Overall course duration (Present course: 11 months)

How do you evaluate the whole length. Please choose one.

Too long,

(De. N) (Um. N) (Ka. N) (Ba. N) (Ha. N) (Go. N) (Md. B) (Pa. B) (Re. B) (Ga. B) (Na. B) Fair

Too short

In case you think it is "Too long:" or "Too short", what do you think is the appropriate length?

months

The reason why?

2) Time allocation for each programs

Any comment/opinion regarding the length of Orientation, Lectures and Study Trips:

(De. N) Theory lectures were too much emphasized. In my view we should stress more for practice aspect.

(Um. N) All programs were very good and perfectly organized.

(Ka. N) Length of Orientation is O.K., lectures is slightly short and study trips to relevant organizations should be emphasized by deducting irrelevant ones.

(Ba. N) Time allocation for each programs is "fair".

(Ha. N) Time allocation for each programs are adequate.

(Go. N) Time allocation for each programs is very good because the orientation covers all the aspects & study trips cover wide areas. It would be better to introduce Nihongo orientation in technical terminology, if possible.

(Pa. B) Time allocation for practical work should be increased.

(Ga. B) Time allocation for individual research is short.

(Re. B) Fair

(2) Subject(s) to be added or deleted

*Subject(s) means the contents of curriculums, not specialized training subject.

Training subjects to be added or deleted in the content of the technical circumstances/conditions in your home country:

1) Considering the circumstances/conditions at your home country, what do you think are the training subject(s) to be more emphasized and/or added?

- (De. N) This training course should emphasize GPS transformation and on GIS.
- (Um. N) More attention should be given for the practical knowledge so that the participants would be able to accomplish their assigned jobs or day to day routine works more efficiently and confidently in their respective organizations.
- (Ka. N) Adjustment of precise leveling and GPS computations.
- (Ba. N) The training subjects to be more emphasized, such as Adjustment and transformation of parameters and digital mapping.
- (Ha. N) It is better to give more emphasis in GIS & map digitization subjects.
- (Go. N) Field Astronomy.
- (Re. B) GIS
- (Ga. B) Geodetic Surveying, specially surveying with GPS.

2) If you consider some training subject(s) not needed in the program, what are they?

(Ga. B) Land Use Survey and Land Condition Survey

3) The study trips include observation/visit of institutes, universities, factories.

What type of sites are preferable for visits? What do you like to see there?

- (De. N) Please relevant to map making processes. It should be so organized that we can have practical knowledge during visits.
- (Um. N) The study trips are well organized in the course no extra are required to be included.
- (Ka. N) Study trips to concerned institutes and factories, which carry calibration works.
- (Ba. N) I want to visit institutes, universities and factories from where I can see modern technology and gain knowledge.
- (Ha. N) Sites relevant to the training course are preferable for visits like survey institutes, universities, volcanic places and many other places which make easy to understand geological & geographical survey.
- (Go. N) Geographic features about Karst, fluvial, glacial and also arid topography, if possible.
- (Md. B) Survey organization, survey company I liked to enjoy modern technology.
- (Pa. B) Surveying related institute.
- (Ga. B) Surveying and Mapping Institute. To look the latest technology used there.
- (Na. B) Surveying and Mapping Institute. To have a look to the latest technology used there.
- (Re. B) Selection was fair. Visit to some universities may be added.

(3) Suggestion for the improvement of future programs

Any other comments/opinions as to the improvement of SURVEYING AND MAPPING II TRAINING COURSE.

- (De. N) Add some new courses or you can say allocating more training for practical in GIS and GPS.
- (Um. N) The emphasis should be given for the practical oriented classes so that every participants would be able to know the ways and means of appropriate surveying and mapping techniques perfectly.

- (Ka. N) Time allotted for GIS and its practical classes should be increased by few more days.
- (Ba. N) To improve surveying & mapping course, refresh training course should be given to ex-participants.
- (Ha. N) It is better to give more emphasis in new subjects like GIS, map digitization and preparation of data base.
- (Go. N) Present course is more lecture oriented. In my opinion less theory classes and more practical classes should be provided for the training.
- (Re. B) There may be a short course on GIS and cadastral survey. Benefit of surveying and mapping will be broader through thematic maps and LIS. So it may be included.

V. JICA AFTERCARE SERVICES

(I) Requests as to SURVEYING AND MAPPING II TRAINING COURSE follow-up

1) After the SURVEYING AND MAPPING II TRAINING COURSE, have you somehow contacted your host institute in Japan?

(De. N) (Ka. N)(Ba. N) (Ha. N)Yes,
(Um. N) (Go. N)(Md. B)(Pa. B)(Re. B)(Ga. B)(Na. B)No

2) If "Yes" in what situation? Please specify.

- (De. N) With friends of GIT, courtesy only.
- (Ka. N) When I faced with a least adjustment, I wrote to GSI and I got a BASIC program to solve it.
- (Ba. N) Because I want to update my knowledge in Surveying and Mapping.
- (Ha. N) Correspondence with friends & staffs of GSI.

3) Please specify any requests as to JICA's follow-up care for ex-participants and its support after the training?

- (De. N) Arrange some follow up programs because knowledge what we got from training seems to be outdated due to fast changing technology in our sector.
- (Um. N) Because of the rapid development of computer technology, in the field of Surveying and Mapping works I need a follow-up training program for updating and upgrading my knowledge and skills in these areas and it also will greatly help for supervising and monitoring my assigned jobs more effectively.
- (Ka. N) Supply of processing software and instructions specially in precise leveling GPS and Gravity.
- (Ba. N) I request to JICA for "Refresh Training" in the field of surveying and mapping in Japan.
- (Ha. N) As an JICA's ex-participant I request to organize short-term updating training course in GIS specially for the subjects which are based on new technology as like digital mapping.
- (Go. N) Geographic features about karst, fluvial, glacial and also arid topography, if possible.
- (Re. B) JICA should inquire whether the ex-participant is working in the same field after training. If an ex-participant trying to introduce any acquired technique or knowledge in his organization JICA can give required support (if possible)

(2) Alumni Association of JICA Ex-participants

1) Are you a member of Alumni Association of JICA Ex-participants?

(Um. N)(Ka. N) (Md. B)(Pa. B)(Ga. B)(Na. B) Yes,
(De. N)(Ba. N)(Ha. N)(Go. N)(Re. B)No

* (Md. B) But soon I will become a member.

2) If "Yes", what activities do you take part in?

- (Um. N) I always actively participate in each and every program organized by the Alumni Association.
- (Ka. N) Often I take part in talk program on several technical subjects organized by Nepal-Japan students and trainees club.
- (Go. N) (Planning to be a member soon)
- (Pa. B) I attended the seminar organized by the JICA Alumni Association of Bangladesh.
- (Ga. B) I take part in the seminars and conferences organized the Association.
- (Na. B) I attended the seminars organized by the JICA Alumni Association of Bangladesh.

VI. YOUR IMPRESSION ON JAPAN'S UPDATE SURVEYING AND MAPPING II

Please write down freely and frankly.

- (De. N) Group training course can make and is making a participant very effectively and capable Surveyor to complete his job independently, just like me, I think it should be continued in future also in new (change a bit) form.
- (Um. N) The updated Surveying and mapping II is definitely a time suited program and it has been helping to develop human resources in our organization. But a continuous follow-up training program for the Ex-participants of GSI is greatly felt to meet the changed requirements of the country.
- (Ka. N) Surveying and mapping course provides an extensive education in Surveying and mapping. The upgrading of the knowledge and skills of the participant in surveying field contributes him capable of conducting quality control and process control.
- (Ba. N) If Japan's update for ex-participants of training in Surveying and Mapping course, I will be very pleased.
- (Ha. N) Surveying & Mapping II training course is really very useful for my recent job. I must have to say that this course extends my knowledge in surveying & mapping.
- (Go. N) Provides overall comprehensive knowledge on Surveying and mapping.
Appropriate course for surveying & Mapping.
- (Md. B) Very good.
- (Pa. B) Very nice.
- (Re. B) For me it was a great chance to see Japan's achievement in this field and Human Resource Development.
- (Ga. B) Very nice.
- (Na. B) Very nice.

VII. MAJOR PROBLEMS OF SURVEYING AND MAPPING IN YOUR COUNTRY

Please describe the present problems in your country and/or in your organization.

- (De. N) We are preparing topographical base maps basically on 1:25000 scale by the conventional method. Now slowly we are changing the system to the digital form. After the decision to change it will be a big problem to get the trained and skilled manpower. We are in great need of technically skilled manpower for digital mapping.
- (Um. N) Survey Department in Nepal is vigorously introduction GIS/LIS and digital mapping techniques for the production of maps. To meet this end, we need a large number of trained technical personnel and at present there is a gap of trained human resources in this field. Hence, technical, financial support from the government of Japan to introduce new computer added mapping technology and a follow-up training program for the Ex-participants of GSI will be of a significant value to the Survey Department of Nepal.
- (Ka. N) Nepal, being a developing country, being faced with numerous problem. Human Resource development and management are still in primitive stage. Despite many efforts and assistance from many donor agencies, progress in the survey and mapping field is very slow. We are still facing lack of well trained personnel in different subjects of surveying, specially in Geodesy. Data processing and analysis, computation and adjustment procedural trainings are most needed than field operation for my organization.
- (Ba. N) In our survey department we have many technical and financial problems, as;
- (a) Unknown of modern technology
 - (b) Shortage of efficient technical persons
 - (c) Inadequate of budget
 - (d) Unavailable of precise instrument etc.
- Due to the above problems, we have not made any adjustment on geodetic network of our country. Yet we have not made any calculation on precise geodetic datum. Due to this reason we have not yet detected the movements by Geodetic Survey.
- (Ha. N) Now my organization is preparing 1:25000, national base map series and it is about to complete in near future. In the mean time most of the map users has been demanding our map in digital form for their convenience. But my organization is still not well established for this purpose due to the lack of equipments and trained man power. This trend clearly shows that my organization is going to face this
- (Go. N)
1. Lack of application of appropriate surveying method in cadastral surveying.
 2. Lack of computerization in cadastral mapping
 3. Most of the Surveying methods and instruments are of traditional type.
- (Md. B)
1. Lack of modern equipment
 2. Lack of trained people
 3. Incomplete Geodetic network
- (Pa. B)
1. Lack of modern equipment
 2. Lack of trained people
 3. Incomplete Geodetic control network as one third portion of the country yet to be covered.
- (Re. B) As I discussed earlier this organization is responsible for cadastral map land records (ownership). Before cadastral survey we conduct traverse survey. Only for traverse we use theodolite and EDM. For cadastral survey we do not use any

modern equipment. After my coming back from Japan we have procured 10 total station (sokkia). Now we are using total station in small scale. The result is very fruitful. At the same time we have started digitization of the existing cadastral map to get digital data of map. This year we are going to purchase GPS. You know total station, GPS has big capability. We do not have qualified survey or mapping or GIS expert. With less qualified and minimum training we have started a big job. We need sufficient equipments and continuous training for our technical staffs. We are doing our level best with our limited resource.

- (Ga. B) 1. Lack of modern equipment
2. Lack of trained people.
3. Incomplete geodetic network.
- (Na. B) 1. Lack of modern equipment
2. Lack of trained people.
3. Incomplete geodetic network.

VIII. REQUEST TO JICA

If you have any requests to JICA, please specify here.

- (De. N) As we are unable to cope with the cast changing technology in map making processes,
I strongly request the JICA to provide and arrange special training course for the ex-participant e.g. on GIS, GPS in GSI as follow up progresses.
- (Um. N) Survey Department in Nepal is vigorously introduction GIS/LIS and digital mapping techniques for the production of maps. To meet this end, we need a large number of trained technical personnel and at present there is gap of trained human resources in this field. Hence, technical, financial, support from the government of Japan to introduce new computer added mapping technology and a follow-up training program for the Ex-participants of GSI will be of a significant value to the Survey Department of Nepal.
- (Ka. N) I would like to avail this opportunity to thank JICA for providing me the opportunity to express my request. I request to JICA, to conduct short term refresher course for ex-participants to acquaint themselves with the modern development and techniques in the field of surveying and mapping. I hope this kind of training will also be a feedback to JICA. Thank you for your kind remembrance.
- (Ba. N) I want to gain more knowledge in the field of Surveying & Mapping and also want gain the knowledge in modern technology, specially in the field of geodesy, GPS Digital Mapping. I hope that JICA will give me a chance for "re-fresh training" in any field of survey which will be very useful to me and my organization also. To up to date the knowledge refresh training program is necessary.
- (Ha. N) Since the pace of technological development in going faster particularly in the field of surveying and mapping, we ex-participants need short-term updating training course in GSI, so that we can cope with the new challenges of surveying and mapping field.
- (Go. N) 1. It is kindly requested to provide any advancement, or update of surveying and mapping II course with latest information and respective documents (materials).
2. Provision to acquire advanced knowledge in specialized subject is kindly requested as refresher training course.
3. Materials to continue (to learn) Nihongo (such as tapes, books, word book etc.) would help to correspond to the instructors in the institute in Japan.

or

- (Md. B) 1. My request to JICA to organize, 2 or 3 week long refreshment course once in 1 every three year for its ex-participants to introduce the latest technology in the field of surveying & Mapping.
2. To offer advanced Survey course in special field for ex-participants.
3. Two-third area of Bangladesh is covered by Geodetic network in cooperation of JICA. So my request to JICA to organize another project for Bangladesh to cover the remaining area of Bangladesh by a uniform Geodetic Network.
4. I highly requested to JICA to cooperate Survey of Bangladesh by providing modern equipments, advisors, and survey related books.
- (Pa. B) 1. As JICA was kind enough to complete 2/3 portion of Geodetic control network of Bangladesh, I request to extend the project to finish remaining portion of the network thereby entire country will be in uniform Geodetic control network.
2. To offer advance survey courses in special field.
3. Refresher Courses to introduce modern trend of Surveying and Mapping to the ex-JICA participants.
- (Re. B) My first request to JICA : please come and see how an ex-participant is trying to implement his acquired knowledge from Japan in Bangladesh.
- Every citizen of Bangladesh will be benefited if we can survey whole Bangladesh with Total station. We can not develop LIS unless we have digital data. We can not supply latest land information to the people. Even we do not have accurate land use map. As a result developing agencies are facing enormous problems. We badly need a computerized LIS. After through study if JICA thinks fit technical assistance can be provided by JICA.
- (Ga. B) 1. In my request to JICA to organize two or three weeks long refreshment course once in every three year for its ex-participants to introduce the latest development in the field of Surveying and Mapping to them.
2. To offer advanced Survey Course in special field for ex-participants.
3. Two-third area of Bangladesh is covered by Geodetic Network in cooperation of JICA. So, my request to JICA to organize another project for Bangladesh to the remaining area of the country by a uniform Geodetic network.
4. To cooperate Survey of Bangladesh by providing modern equipments, advisors and books related to survey.
- (Na. B) 1. My request to JICA to organize 2 or 3 week long refreshment course once in every three year for its ex-participants to introduce the latest development in the field of Surveying and Mapping to them.
2. To offer Advanced Survey Course in special field for ex-participants.
3. Two-third area of Bangladesh is covered by Geodetic Network in cooperation of JICA. So, my request to JICA to organize another project for Bangladesh to cover the remaining area of Bangladesh by a uniform Geodetic network.

Thank you very much for your kind cooperation

付表 3(3) 質問票集計結果 (研修員所属先, 環境地図)

FOLLOW-UP SURVEY FOR EX-PARTICIPANTS OF TRAINING COURSE
TSUKUBA INTERNATIONAL CENTER (TBIC)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
AND
GEOGRAPHICAL SURVEY INSTITUTE (GSI)

QUESTIONNAIRE FOR ORGANIZATION CONCERNED
ON
GROUP TRAINING COURSE
IN
GLOBAL MAPPING (ENVIRONMENT)

I. ORGANIZATION OUTLINE

(1) Name, type of Organization and size

1) Name of Organization: (N:Nepal, B:Bangladesh)

(N) Survey Department, Ministry of Land Reform and Management
His Majesty's Govt. of Nepal

(B) Survey of Bangladesh

Address:

(N)Min Bhawan, Baneshwor, Kathmandu, Nepal

TEL:977-1-482713 FAX:977-1-482957

(B)Tejgaon I/A, Dhaka, Bangladesh

TEL:9114191

2) Please indicate the type of your organization. Please choose on the following items.

- | | | |
|----------------------|-------|-------|
| a) Governmental | (N) | (B) |
| b) Semi-Governmental | () | () |
| c) Private | () | () |
| d) Other Type | () | () |

What is it? Please specify.

National surveying and mapping organization of Nepal.

3) How many staffs does your organization have?

Number of staffs:

- | | | |
|----------------------|-----------|----------|
| 1.Total | (N)2808 | (B)893 |
| 2.Research/Technical | (N)2062 | (B)567 |
| 3.Administration | (N) 736 | (B)326 |

(2) Activities, responsibilities and organization chart

1) What are the main activities and responsibilities of your organization?

(N) · Geodetic Survey

- Cadastral survey and mapping
- Topographic and Land Resources Surveying and Mapping
- Other activities related to surveying and mapping

- (B)**
1. To establish and maintain Geodetic Control network of Bangladesh.
 2. To prepare and update base map of Bangladesh at scale 1:50,000
 3. To prepare different kind of topographical maps of Bangladesh.

*** If you have your organization chart, please attach it.**

(3) Relation with Japan

1) How many of your staff members have participated in JICA training course in the past? And what were the Courses they participated in.

1.Total (N) 15 , (B) 7 (Included Group and Individual Training Course)

2.GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE

(N) 1 (B) 2

**3.Other JICA's Courses (N)9 including group, individual and JOCV counterparts
(B)Surveying and Mapping II**

2)Does your organization have any joint project or program (research/training) with Japanese institute(s) except JICA?

Yes (), No (N) (B)

If it does, could you please specify the name of program and/or project?

3) Does your organization have similar relationship with any other countries?

Yes (N), (B) No ()

Please specify the name of program and/or project, if possible.

(N) Western Nepal topographic mapping, with the assistance of Govt. of Finland.

(B) "Topographic Mapping of Bangladesh-Procurement of Machineries & Equipment" Project with IGN-France International

4) Do you have any request about a joint program and/or project with Japanese research institute?

Yes (N), No (B)

In case of "Yes", what is it?

- (N) · Request for assistance for Surveying Training Center in The pipeline.
- Other projects being formulated at this Majesty's Govt. level.

II. APPLICATION AND NOMINATION OF CANDIDATE TO JICA TRAINING COURSE

(1) Procedure of selection

1) Please let us know the procedure of candidate nomination

- (N) The organization advertise for candidate and judge from his/her aptitude and qualification
- (N) (B) After judging from staff's aptitude and qualification, the origination order the candidate to go to Japan
- (N) Others (Seniority on the post)

2) How long does it take you to choose the final candidate(s) for the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

- (N) (B) within one month
- () more than one month

If it takes more than one month, how many months? () months

3) What are the standards of candidate selection for the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

Please choose any out of the following.

- | | |
|------------------------------------|--|
| (N) (B) present post of candidate | (N) (B) educational background |
| (N) (B) research record | () intention |
| (N) (B) service record | () interchange between the training institute |
| () others (Please specify below.) | |

(2) General Information (G.I.): brochure of the course from JICA

1) Did you get enough information from the "G.I." for selecting final candidate(s), i.e., prospective participant(s) in the training course? Should any other piece of information be added to the "G.I."?

- (N) (B) Yes, it is enough.
- () No, it is not enough.

In cases of "No", please specify the information to be added.

2) Do you usually receive "G.I." well in advance?

- (N)(B) Yes (N) We received information for 1996 in time. We didn't receive info for 1997 course.
- () No, it arrives late.

(3) Number of prospective applicants/candidates

1) How many applicants/candidates do you have every year for GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

(B) 4 to 5

2) How many staffs in your organization do you consider are adequate for GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE in the future?

- (N) 4 persons in next four years and at least one in alternate years after that.
(B) More 5 staff

III. EVALUATION OF THE TRAINING PROGRAM

(1) Results/achievements of the training

Have you found any good results/achievements in your staff after GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE at the point of the following? Please specify if available.

a) the method of researching

(N) Yes

b) the knowledge/technique(s)

(N) Yes

(B) Acquired knowledge broaden the outlook of the individual thereby increase the knowledge of the staffs.

c) Others

(N) We have had only one participant so far. We are satisfied with his performance and results.

(2) Applicability of the knowledge/technique(s) obtained through the training in Japan

1) Are your ex-participants applying the knowledge/technique(s) obtained through the training in Japan to their works back at home?

(N) a lot, (B) to some extend, () no application

2) If there are some examples of good application, please specify them.

- (N) · He has prepared proposals for mapping useful for environmental problems.
- His orientation have been towards improved and new techniques of map production.
- (B) Organize the training among junior officer & staffs of the organization.

3) In case of "no application", why do you think the reason?

4) Do you try to assign ex-participants to responsibilities/posts where they can make good use of the knowledge/technique(s) obtained through GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

(N) (B) Yes, () No

5) In case of "Yes", please give an example to illustrate specifically how?

- (N) The participant, Mr. Chatkuh, is a member of working group on regional cooperation in mapping.
- (B) We are trying to place GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE qualified officer into the key position so that they can enhance modernization Program of our organization.

(3) Expectations for future JICA programs

1) Would you like to continue sending your staff to participate in GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE.

(N) (B) Yes, () No

2) In case of "Yes", what/how intense are your expectations?

- (N) Environmental problems are one of the larger problems in Nepal. We have also taken interest and leading role in regional cartographic activities in the SAARC region. The training of our staff in global (environmental) mapping at GIS would be really of great importance to us.
- (B) One staff per year.

(4) Compare with other programs

How do you evaluate GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE compare with other one?

- level of content: (B) high, () low, (N) neither
- length: () long, (B) short, (N) neither
- quantification: () difficult, (B) easy, () neither
- number of participants () many, (N) (B) not many, () neither

IV. IMPROVEMENT OF FUTURE GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSEs

(1) Knowledge/technique(s) your organization hopes to obtain from GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE

In future, what knowledge/technique(s) would you expect your training participants to acquire from the future GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE.

- (N)
 - Techniques of global (environmental) mapping e.g. GIS, DIM etc.
 - Status of global (environmental) mapping
 - Areas of cooperation and support.
- (B) More Practical training so that they can apply the acquired knowledge returning home country.

(2) Improvements of GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSEs

If you have any opinions/comments regarding the improvements of future courses, please specify as to the following.

a) Duration of program

- (N) o.k
- (B) Should be Extended

b) Curriculums

- (N) o.k.
- (B) o.k.

c) Contents of training

- (N) o.k.
- (B) o.k.

d) Technique levels

- (N) We plan to train Managers at this level. So very minor details may not be necessary

e) Others

V. JICA AFTER SERVICES

JICA conducts aftercare services for ex-participants of GLOBAL MAPPING (ENVIRONMENT) SURVEYING TRAINING COURSE. If you (as an organization) have any opinions/requests concerning this services. Please specify here.

- (N) Provide to SD and the participants the following;
 - Newsletter
 - Journals
 - Research papers

- Some provision of alumni meetings and refresher courses could be ?????beneficial.
- (B) 1. Refresher Course should be arrange every after 4 to 5 Year.
2. JICA should send regularly magazine and journals Pertinent to this field. It is the requirement to keep ex-participant Conversant with modern trend of development.

VI. MAJOR PROBLEMS OF GLOBAL MAPPING (ENVIRONMENT) IN YOUR COUNTRY

Please describe the present problems in your country and/or in your organization.

(Please refer to the environmental problems in your country.)

- (N) • Level of adequate to trained manpower
• Lack of modern equipment
• Insufficient funding
• Problem of coordination and standardization
- (B) Bangladesh is most densely populated area in the world. Increased human activities and rapid unplanned Urbanization contributing environmental degradation immensely. Due to excess use of the fossil fuel and continuous deforestation, ecology of the country is changing rapidly. Country is experiencing violent destructive cyclone almost every year causing lose of valuable life and wealth. Bangladesh also expecting inundation of its great portion of land due to sea level water rise in green house effect.

VII. REQUEST TO JICA

If you have any request to JICA, please specify here.

- (N) We would be interested to carry out junior projects with Japan JICA where ex-participants can be involved. Some of them are:
- Digital mapping of urban centers (large scale mapping)
 - Development of GIS and topographic database.
 - Geodetic and geophysical research.
 - Strengthening of survey training center.
- (B) 1. JICA was kind enough to take Project with Survey of Bangladesh "Strengthening the Capability of Survey of Bangladesh in Geodesy" and completed 2/3 Portion of Geodetic control network of Bangladesh. It is our request to complete rest 1/3 portion of control net-work and bring the country harmonize network system.
2. More advance training course in the field of surveying and mapping.
3. To provide survey equipment and journals periodicals.
4. To provide project is Aerial photography.

Thank you very much for your kind cooperation.

付表 3(4) 質問票集計結果 (帰国研修員, 環境地図)

FOLLOW-UP SURVEY FOR EX-PARTICIPANTS OF TRAINING COURSE
TSUKUBA INTERNATIONAL CENTER (TBIC)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
AND
GEOGRAPHICAL SURVEY INSTITUTE (GSI)
QUESTIONNAIRE FOR EX-PARTICIPANT
ON
GROUP TRAINING COURSE
IN
GLOBAL MAPPING (ENVIRONMENT)

I. PERSONAL DATA

(1) Name in full (N: Nepal) (B: Bangladesh)

Mr. Raja Ram Chhatkuli (Ra. N)
Mr. Kazi Shafayetul Haque (Ka. B)
Mr. MD. Abul Kalam (Md. B)
Mr. Brigadier TU Muhammad (Br. B)

(2) Home address

(3) Year of your participation on GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE
(Ra. N) 1996
(Ka. B) 1996
(Md. B) 1997
(Br. B) 1994

II. YOUR PRESENT ORGANIZATION OUTLINE

(1) Name, type of organization and size

1) Name of your organization

(Ra. N) Survey Department
(Ka. B) National Surveying and mapping organization of Bangladesh. Survey of Bangladesh
(Md. B) Survey of Bangladesh
(Br. B) Ministry of Defense

2) Your present title in your organization

(Ra. N) Survey Officer
(Ka. B) Director
(Md. B) Assistant Survey Super
(Br. B) Joint Secretary

If your title changed after your GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE participation, please describe recent two titles and activities.

3) Please indicate the type of your present organization. Please choose on the following items.

a) Governmental (Ra. N)(Ka.B)(Md. B)(Br. B)

b) Semi-Governmental ()

c) Private ()

d) Other Type ()

What is it? Please specify

4) How many staffs does your organization have?

(Ra. N) 2808, (Ka.B) 893, (Md. B) 893, (Br. B) 50

(2) Activities, responsibilities and organization chart

What are the main activities of your organization and what are your activities and responsibilities in it?

(Ra. N) National surveying and mapping organization. My responsibilities are

- Design and production of topographic, thematic and derived maps.
- Planning and design of digital mapping activities.
- Expert-group member on national GIS/LIS activities.
- Planning and preparation of proposals for new mapping activities.

(Ka.B) The main activities of my organization is attached as annex-A. As a director I am responsible to prepare national mapping program for my directorate and also responsible to prepare Development plan for future modern mapping activities for the department.

(Md. B) Now I am technical officer of my organization, I am working about Sheet Verification, Cartographic and photogrammetric works in Surveys of Bangladesh.

(Br. B)

* If you have the organization chart, please attach it. (if available)

III. EVALUATION OF GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE

(1) Ex-participant's evaluation of the course

1) After returning to your country, do you feel that the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE has been useful?

To what extent were your expectations satisfied? Please check.

Curriculum: (Ra. N) Very good (Ka.B)(Md. B)(Br. B) Good () Fair
() Poor () Very Poor

Course Management: (Ra. N) Very good (Ka.B)(Md. B)(Br. B) Good () Fair
() Poor () Very Poor

Contents: (Ra. N) Very good (Ka.B)(Md. B)(Br. B) Good () Fair
() Poor () Very Poor

Training Methodology: (Ra. N) Very good (Ka.B)(Md. B)(Br. B) Good () Fair
() Poor () Very Poor

2) If your answer is "Fair", "Poor" and "Very poor", please explain your answer briefly.

3) After the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE, have you had any personal promotion in your position.

(Ra. N) Yes, (Ka.B)(Md. B) (Br. B) No

In case of "Yes", and if possible, please briefly mention how and when?

(Ra. N) Not really a promotion in position, but I was awarded on Order of Gorakha Dakshin Bahn(II) by his majesty the king in December 1996 which was a great honor.

4) After the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE, have you been trying to share with other staff in your organization the knowledge and techniques obtained from your GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

(Ra. N) (Ka.B)(Md. B) (Br. B) Yes, () No

In the case of "Yes", and if possible, please give an example to illustrate specifically how?

(Ra. N) • Submitted Report

• Presented Report

• Prepared digital mapping, project proposal and submitted on approval.

(Ka.B) I have discussed with all officers of the department about the importance of Global mapping and its contribution to protect the environmental problem and also discussed how we can participate Global mapping project.

(Md. B) After finishing this course I am trying to share with staff of my organization which I obtain from this training course. Because of I finished this course only this running month.

(Br. B) I have discussed with all officers of the department about the importance of Global Mapping and its contribution to project the environmental problem and also discussed how we can participate Global Mapping Project.

* As to the following (2) and (3), "the knowledge and techniques" means itself and "the method of researching".

(2) Technical improvement

1) Have your knowledge and techniques improved through the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

(Ra. N)(Ka.B)(Md. B)Fairly, (Br. B) Somewhat () No

2) In case of "Fairly" or "Somewhat", please give an example(s) of the knowledge and techniques newly acquired through your GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE.

(Ra. N) I had more practical exposure to digital mapping in working environment and this has reflected in the project proposal I prepared.

(Ka.B) We have taken a project with IGN France. Under this project we will try to create digital elevation model of Bangladesh and topographic database for whole Bangladesh. We can supply this data for Global mapping.

(Md. B) After finishing this course, I think this was an opportunity for me to open my eyes. In this course I was familiar with new technology in surveying & Mapping, Specially in GPS, GIS Digital mapping & Remote surveying etc.

(Br. B) We have taken a project with IGN France. Under this project we try to create digital elevation model of Bangladesh and topographic database for whole Bangladesh. We can supply this data for Global Mapping.

3) If you do not think you improved/acquired any new/obvious knowledge and techniques, what do you consider the reasons? Please choose any out of the following items.

Difference between levels of training:

- () too high, () too low
- () Language barrier
- () No interest in the training contents
- () Problems in method of instruction
- () Other reasons

Please specify.

(3) Applicability

1) Are the knowledge and techniques you acquired in the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE useful and applicable to your current work? Please choose one.

() Fully, (Ra. N)(Ka.B)(Md. B) (Br. B) Mostly, () Partly, () Slightly,
() Not at all

2) In case of "Fully", "Mostly" and "Partly", please specify what knowledge and/or techniques are useful and applicable?

(Ra. N) · GIS · Digital · DIM

(Ka.B) Knowledge on GIS and Geodesy, GPS and also digital Mapping is helpful.

(Md. B) It is highly useful in my day to day activities. In this field of Global mapping, Remote Sensing and Digital mapping it is obviously useful.

(Br. B) Knowledge on GIS and Geodesy, GPS and also digital Mapping is helpful.

3) In case of "Slightly" and "Not at all", what are the main causes?

- Different type of work at present
- Techniques level gap(s)
- Difference in technical background (Methods etc.)
- Others

Please specify.

4) Which field of GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE was most beneficial to your job?

(Ra. N) I found the case study the most. But other lectures were also equally beneficial.

(Ka.B) GIS, GPS, Digital Mapping and Geodesy

(Md. B) Computer Technology, Digital mapping and GPS was the most beneficial to my job.

(Br. B) GIS, GPS, Digital Mapping and Geodesy

5) Have you ever reported a research paper and/or presented orally at an academic meeting about the results of researching obtained from your GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE?

(Ra. N) Yes, (Ka.B)(Md. B)(Br. B) No

In case of "Yes", please give the name of the research paper and/or the academic meeting.

(Ra. N) * Group discussions inside the organization.

* Geometric Accuracy of Cadastral Re-survey in Nepal and its utility for the development of National Land Information System published in Nepal Surveyor Vol. III was based on research methodology of case study at GSI.

IV. TRAINING COURSE IMPROVEMENT

(1) Time allocation: Training course as a whole and among each of the programs

1) Overall course duration (Present course: 2.5 months)

How do you evaluate the whole length. Please choose one.

Too long, (Ra. N)(Md. B)(Br. B)Fair, (Ka.B) Too short

In case you think it is "Too long:" or "Too short", what do you think is the appropriate length?

(Ka.B) 5 months

The reason why?

(Ka.B) Since the participants are from developing countries Survey and Mapping technology is

(Br. B) not as modern as Japan. So participants can be beneficial from this course is described as under. Out of 5 months, 3 months training on modern geodesy, cartography, Photogrammetry, GPS, GIS and other modern Surveying and mapping Techniques and 2 months for Global Mapping.

2) Time allocation for each programs

Any comment/opinion regarding the length of Orientation, Lectures and Study Trips:

(Ra. N) Fair

(Ka.B) Time allocation for modern mapping technique is too small.

(Md. B) Time allocation for practical work should be increased.

(Br. B) Time allocation for modern mapping technique is too small.

(2) Subject(s) to be added or deleted

*Subject(s) means the contents of curriculums, not specialized training subject.

Training subjects to be added or deleted in the content of the technical circumstances/conditions in your home country:

1) Considering the circumstances/conditions at your home country, what do you think are the training subject(s) to be more emphasized and/or added?

(Ra. N) Management of global mapping / digital mapping projects.

(Ka.B)& (Br. B) (a) Geodesy (b)Photogrammetry (c)Remote Sensing (d) GPS (e) GIS
(f) Cartography (g) Digital Mapping technique

2) If you consider some training subject(s) not needed in the program, what are they?

(Ra. N) Simple topics like digitization etc. may not be emphasized so much as was done.

3) The study trips include observation/visit of institutes, universities, factories. What type of sites are preferable for visits? What do you like to see there?

(Ka.B) & (Br. B) (a) Department working on environmental problem

(b) GIS application Project

(c) Department working with modern mapping technique

(Md. B) Surveying & Mapping related Institute, but for Environmental research I would like to visit Environmental research center and factories.

(3) Suggestion for the improvement of future programs

Any other comments/opinions as to the improvement of GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE.

(Ra. N) * Identify and define the level of course participants.

* For this short 2 and 1/2 months course people at managerial level one.

* Emphasize the course structure so that participants understand the concept of global

map and their general capacity of management of digital mapping project is improved.

V. JICA AFTERCARE SERVICES

(1) Requests as to GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE follow-up

1) After the GLOBAL MAPPING (ENVIRONMENT) TRAINING COURSE, have you somehow contacted your host institute in Japan?

(Ra. N)(Ka.B) Yes, (Md. B) (Br. B) No

2) If "Yes" in what situation? Please specify.

(Ra. N) I contacted for sending a copy of the case study report.

(Ka.B) Through other participants to collect some topic from GPS world, GIS world and PERS Magazine.

3) Please specify any requests as to JICA's follow-up care for ex-participants and its support after the training?

(Ra. N) It should be an interesting idea to reassemble to look what the participants have done and how they have improved their performance.

(Ka.B) JICA can provide Magazine and books on Modern Surveying and Mapping Technology.

(Br. B) ditto

(2) Alumni Association of JICA Ex-participants

1) Are you a member of Alumni Association of JICA Ex-participants?

() Yes, (Ra. N)(Ka.B) (Md. B) (Br. B) No

(Ka.B) Very soon I shall apply for the membership of JICA Alumni.

2) If "Yes", what activities do you take part in?

(Ra. N) Not so often. But I have contacted to get to membership.

VI. YOUR IMPRESSION ON JAPAN'S UPDATE GLOBAL MAPPING (ENVIRONMENT)

Please write down freely and frankly.

(Ra. N) With my educational background in Europe and working experience in a developing country, the exposure to the academic community in Japan was a excellent experience. I have the opinion that Japan can be and is the world leader.

(Ka.B) Very good. I believe as a developed country Japan is taking good initiative for Global Mapping Program.

(Md. B) Very nice.

(Br. B) Very good. I believe as a developed country Japan is taking good initiative for Global Mapping Program.

VII. MAJOR PROBLEMS OF GLOBAL MAPPING (ENVIRONMENT) IN YOUR COUNTRY

Please describe the present problems in your country and/or in your organization.

(Please refer to the environmental problems in your country.)

(Ra. N) The major environmental problems in Nepal are Flooding, Desertification, Clearing of forest, Migration, Haphazard urbanization, Pollution of air and water, Landslides, Loss of biodiversity etc. Our Department is looking at ways how these problems could be clear in maps.

GIS problems are Insufficient expertise, Lack of technology, Lack of fund etc.

(Ka.B) (Br. B) Deforestation, Desertification, Sea level rise, Underground water pollution due to excessive use of fertilizer and over population is the main environmental problem of Bangladesh.

Main problem of my organization are

- a. Use of age-old technology for surveying and Mapping work as result we cannot supply data for global mapping project.
- b. We do not have sufficient trained staff on modern mapping and we do not have modern equipment.
- c. We do not have Geodetic control network covering whole Bangladesh, for that we can not produce precise map for whole country.

(Md. B) 1. Lack of modern equipment
2. Lack of trained people

VIII. REQUEST TO JICA

If you have any requests to JICA, please specify here.

(Ra. N) * Give priority to training participants from SD.

* Not all proposals can be sent through official diplomatic channel. So be receptive to communicate on junior proposals informally. Official proposals can be sent when some understanding is reached.

* The Lumbini Mapping Project between JICA and SD was successful. Let us have more joint projects.

* Allow for refresher courses for JICA participants.

* Send Journals, newsletters and research papers

(Ka.B) 1. As JICA was kind enough to complete 2/3 portion of Geodetic control network of (Br. B) Bangladesh. I request to extend a project to finish remaining portion of the network there by entire country will be in uniform Geodetic network.

2. To offer advanced survey courses in special field for ex-participants.

3. Refreshment courses to introduce modern trend of Surveying and mapping to the ex-participants.

(Md. B) 1. As JICA was kind enough to complete 2/3 portion of Geodetic Control network of Bangladesh I request to extend the project to finish remaining portion of the network thereby entire country will be in uniform Geodetic Control network.

2. To offer advance survey courses in special field.

Thank you very much for your kind cooperation

付表4 公開セミナー参加者リスト

List of the attendants of the JICA Seminar on
"Surveying & Mapping"
on Oct. 22, 1997 at Hotel Sheraton. Dhaka

Ministry of Defence:

1. Brig.T.U.Muhammad Iftekharul Bashar, Joint Secretary (ex-participant)
2. Mr. Md. Saiful Islam, Deputy Secretary

Survey of Bangladesh (SOB):

1. Brig. Shahedul Islam Mondal, Survey General
2. Lt. Col. Kazi Shafayetul Haque, Director (ex-participant)
3. Major obaidur Rahman, Asstt. Surveyor General
4. Mr. Md. Abul Kalam, Asstt. Survey Super (ex-participant)
5. Mr. Abu Naser Wahed, (ex-participant)
6. Mr. Alamgir Biswas, Project Officer
7. Mr. Md. Nazmul Ahsan Chowdhury
8. Mr. Ganesh Chandra Roy, Technical Assistant (ex-participant)
9. Mr. Md. Riazuddin, Technical Assistant (ex-participant)
10. Mr. Akira Yaguchi, JICA Expert
11. Mr. Akira Yamada, JICA Expert
12. Mr. Kosei Otoi, JICA Expert

Directorate of Land Records & Surveys (DLRS):

1. Mr. Md. Rezaul Karim, Charge Officer (ex-participant)
2. Mr. Md. Hemayetuddin Talukder, Settlement Officer
3. Mr. S.M. Rais Uddin Ahmed, Charge Officer
4. Mr. Md. Khairul Kabir, Technical Advisor
5. Mr. Md. Mafizul Islam, Sub-Assistant Settlement Officer
6. Mr. Shyama Prasad Bepari, Settlement Officer
7. Mr. Md. Lutfar Rahman, Asstt. Press Officer
8. Mr. Nur Mohammad Abu Zafar, Asstt. Press Officer

Local Govt. Engineering Department (LGED) :

1. Mr. Tarik-Ul Islam, Asstt. Engineer, GIS Unit
2. Mr. Marfique Ahmed, Asstt. Engineer, GIS unit
3. Mr. Masum Sarwar, Asstt. Engineer
4. Mr. S.M. Zulkernine, Asstt. Engineer
5. Mr. Mohsin Jalal Khan, Asstt. GIS Specialist
6. Ms. Sharmin Yusuf, Asstt. GIS Specialist
7. Ms. Tahmina Larif, Asstt. GIS Specialist
8. Ms. Syeda Laila Nargis, Asstt. GIS Specialist
9. Ms. Fatema Aktery, GIS Assistant

Economic Relations Division (ERD) :

1. Mr. Binoy Gopal Chakrabarty, Deputy Secretary

JICA Bangladesh Office :

1. Mr. Hiroyuki Kutsuma, Addl. Resident Representative
2. Mr. Tomohiko Teruya, Deputy Resident Representative
3. Mr. Sayedul Arefin, Asstt. Director
4. Ms. Hasina A. Inam, Program Officer

JICA Follow up Team:

1. Mr. Mitsuo Iwase, Team Leader
2. Mr. Kazuyuki Tanaka, Technical Advisor
3. Mr. Noriaki Murase, Coordinator

Total 39

List of the attendants of the JICA Seminar on
"Surveying & Mapping"
on Oct. 29, 1997 at Survey Department, Kathmandu

Survey Department:

1. Mr. Narayan Bhattarai
2. Mr. Shri Prakash Mahara
3. Mr. Krishna Raj Adhikari
4. Mr. Tirtha Bahadur Pradhananga
5. Mr. Rabin Kaji Sharma
6. Mr. Narayan Bahadur Karki
7. Mr. Narayan Adhikari
8. Mr. Raja Ram Chhatakuli (Ex-participants)
9. Mr. Arjun Bahadur Tandukar
10. Mr. Bishnu Kumar Neupane
11. Mr. Durgendra Man Kayastha
12. Mr. Bam Dev Deep
13. Mr. Maheshwor Bhattarai
14. Mr. Krishna Bahadur Mukhiya
15. Mr. Kalyan Gopal Shrestha (Ex-participants)
16. Mr. Jagat Raj Paudel
17. Mr. Krishna Raj B.C.
18. Mr. Basanta Sharma
19. Mr. Rabindra Man Tamrakar
20. Mr. Padma Lal Paudel
21. Mr. Madan Bahadur Shakya
22. Mr. Mohan Chand Thakuri
23. Mr. Tek Bahadur Shah
24. Mr. Hari Man Tumbahamphe (Ex-participants)
25. Mr. Suresh Man Shrestha
26. Mr. Deepak Sharma Dahal (Ex-participants)
27. Mr. Umesh Kumar Joshi (Ex-participants)
28. Mr. Ramesh Rajbhandari
29. Mr. Bhaskar Prasad Sharma
30. Mr. Gobinda Prasad Adhikari (Ex-participants)
31. Mr. Gokul Krishna Shrestha
32. Mr. Amir Man Shakya
33. Mr. Niraj Manandhar
34. Mr. Bal Bahadur Bhandari (Ex-participants)
35. Mr. Jagadish Prasad Pathak
36. Mr. Krishna Raj Neupane
37. Mr. Ganga Bahadur Shrestha
38. Mr. Bhoja Raj Bastola

JICA Nepal Office :

1. Ms. Mikako Kudo, Resident Representative
2. Mr. M. Khadka, Senior Programme Officer

JICA Follow up Team:

1. Mr. Mitsuo Iwase, Team Leader
2. Mr. Kazuyuki Tanaka, Technical Advisor
3. Mr. Noriaki Murase, Coordinator

Total 43

付表 5(1) 各訪問機関に提出した英文所見 (バングラデシュ)

BRIEF REPORT
OF THE FOLLOW-UP STUDY TEAM
FOR EX-PARTICIPANTS OF THE TRAINING COURSE
ON SURVEYING AND MAPPING

The Japanese Follow-up Study Team (hereinafter referred to as the "Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Mitsuo IWASE, Deputy Head, International Affairs Office, Planning Department, Geographical Survey Institute, Ministry of Construction, visited the Republic of Bangladesh from October 20 to October 25, 1997, for the purpose of identifying the actual circumstances of the ex-participants' activities and the dissemination of the technology and knowledge gained from the Group Training Course in Surveying and Mapping II and Global Mapping (hereinafter referred to as the "Training Course"), and obtaining feedback to improve future training courses.

During their stay in the Peoples Republic of Bangladesh, the Team carried out a field study, shared views and opinions, and had discussions with ex-participants and other persons concerned including officials of the Government of Bangladesh and ex-participants' supervisors, on technological and administrative matters regarding the Training Course, so as to evaluate the effectiveness of the Training Course from various viewpoints.

As a result of the field study and discussions, before leaving Bangladesh, this brief report has been prepared to summarize comments and recommendations presented by the Team for the benefit of the respective governmental departments in as follows.

I. INTRODUCTION

In response to needs concerning training and joint research in areas related to Surveying and Mapping which are on the increase in developing countries, the

Government of Japan established the Training Course which focuses on technology transfer for the technicians working in areas related to Surveying and Mapping, in order to make their research and development (R&D) capacities more effective and efficient, thus contributing to the acceleration of social and economic development.

Based on the above-mentioned training needs, the contents of the Training Course was formulated jointly by JICA and the Geographical Survey Institute as the training institution as follows.

(1) The purpose of the Training Course is two-fold:

- a. to acquaint participants with both basic and up-to-date surveying and mapping technology in Japan, and
- b. to deepen their understanding of the concept and the management skill of global mapping.

The Training Course in Surveying and Mapping II began in 1990, and reorganized in 1992 to cover all the fields of surveying and mapping technology including the basic theory. The number of participants completed Surveying and Mapping II course is 65 from 31 countries. Among them, 5 participants are from Bangladesh.

The Training Course in Global Mapping began in 1994. The first time was held as special a seminar including the participation at the first International Work Shop on Global Mapping held in Izumo-city. Now, the program is organized for practical training. The number of participants completed Global Mapping course is 24 from 14 countries. Among them, 3 participants are from Bangladesh.

II. OBJECTIVE OF THE TEAM

The Team's main purpose is to advise ex-participants, the ex-participants' organizations, and related institutions on technical problems in the field of Surveying and Mapping, as well as to study the results of the training in order to effectively evaluate the Training Course.

In addition, the Team will assess :

(a) the technological levels in the relevant fields,
(b) obstructions to technical improvement, and
(c) future training needs, including the consideration of related and incidental fields, in order to improve the training course, develop the new training courses, and strengthen both the national and regional approaches of JICA's Training Programs.

III. MEMBERS OF THE TEAM

(1) Mitsuo IWASE (Team Leader)

Deputy Head, International Affairs Office, Planning Department,
Geographical Survey Institute, Ministry of Construction

(2) Kazuyuki TANAKA (Technical Adviser)

Technical Specialist, International Affairs Office, Planning Department,
Geographical Survey Institute, Ministry of Construction

(3) Noriaki MURASE (Coordinator)

Staff, First Training Division,
Tsukuba International Centre, Japan International Cooperation Agency

IV. FOLLOW-UP STUDY TEAM'S ITINERARY

Monday, October 20

1. Arrival in Dhaka
2. Preliminary meeting at JICA Bangladesh Office
3. Courtesy call to the Embassy of Japan

Tuesday, October 21

1. Visit to Economic Relations division, Government of Bangladesh
2. Visit to Ministry of Defense and Interview with ex-participant
3. Visit to Survey of Bangladesh and Interview with ex-participant
4. Dinner by JICA

Wednesday, October 22

1. Seminar at Hotel Sheraton
2. Luncheon at Hotel Sheraton
3. Visit to Local Government Engineering Department
4. Dinner by Ex-participants in Survey of Bangladesh

Thursday, October 23

1. Visit to Directorate of Land Records and Surveys
2. Visit field work at Mirpur, Dhaka
3. Final meeting at JICA Bangladesh Office

Friday, October 24

-Visit on the rural area of Dhaka

Saturday, October 25

-Departure from Bangladesh

V. SUMMARY OF THE FOLLOW-UP STUDY

As a result of the follow-up study, the Team came to the following conclusions:

1. It was a great pleasure to have the opportunity to visit Bangladesh, and to have warm discussions with the ex-participants of the Training Course. Before leaving Bangladesh, the Team hereby intended to submit a Brief Report on the follow-up study's activities carried out from October 20, 1997.

2. The Team conducted the follow-up study based on the interviews and questionnaires completed by the ex-participants. The Team interviewed six ex-participants from three organizations (Ministry of Defense, Survey of Bangladesh, Directorate of Land Records and Surveys), and visited these three organizations. The Team also visited the Local Government Engineering Department, for the purpose of obtaining the necessary information on the future training needs in the field of Surveying and Mapping. As a result of the interviews and visiting, the Team confirmed that all the ex-participants had accomplished the Training Course successfully gaining new knowledge and technologies related to Surveying and Mapping.

Currently, items suggested by ex-participants are summarized as follows:

- Advanced training programs on Surveying and Mapping new technologies
- provision of equipments to the ex-participants' organizations

These valuable suggestions from the ex-participants will be considered carefully by those involved with the Training Course of JICA and the training institute, to obtain feedback to improve future training courses.

The Team interviewed the six ex-participants mentioned below.

a. Surveying and Mapping II

(1) Mr. Ganesh Chandra Roy

Technical Assistant, Survey of Bangladesh

(2) Mr. Md. Riazuddin

Sub-Assistant Supervisor, Survey of Bangladesh

(3) Mr. Md. Rezaul Karim

Charge Officer, Directorate of Land Records and Surveys

b. Global Mapping (Environment)

(1) Brigadier T. U. Muhammad Iftekharul Bashar

Joint Secretary, Ministry of Defense

(2) Mr. Kazi Shafayetul Haque

Director, Survey of Bangladesh

(3) Mr. Md. Abul Kalam

Assistant Survey Super, Survey of Bangladesh

3. The Team confirmed that all the ex-participants are satisfied with the contents of the Training Course. They have been actively introducing the knowledge and technologies transferred by the Training Course to their technical activities, and they have also been disseminating the acquired knowledge, technologies and experience to their co-workers.

4. The Team confirmed that most ex-participants' organizations have been taking the appropriate measures to provide stable labor conditions to ex-participants and improve their capacities, trying to make the most of the technology and knowledge obtained through the Training Course after returning to Bangladesh.

5. The Team stressed the significance and importance of the dissemination of the ex-participants' knowledge and techniques acquired the Training Course.

6. With respect to the implementation of the Training Course, several significant ideas and opinions were expressed by the ex-participants interviewed. Particularly They request the necessity of the short Advanced course and some individual training programs on Surveying and Mapping new technologies. In that point, the Team will discuss with the concerned organizations in Japan. And it is expected that these opinions are made good use of improving the future Training Course.

VI. SUGGESTIONS AND RECOMMENDATIONS MADE BY THE TEAM

As a result of the discussions and the field study, the Team is making the following recommendations to the ex-participants and the ex-participants' organizations:

1. It is expected that the ex-participant's organizations will provide the further necessary support -- both technical and financial -- to the ex-participants in order a) to facilitate developing the ex-participants' activities utilizing the knowledge and technology transferred by the Training Course, and b) to further strengthen the technical capacities of the ex-participants' organizations.

2. The Bangladesh government is expected to take greater initiative in promoting cooperation among departments (e.g. GIS section), which will contribute to a) developing the appropriate technology reflecting the actual needs of existing each technicians more efficiently and effectively, and b) maintaining a high level of cooperation with the relevant government authorities in the field, based on the exchange of technical information and human resources. It is expected that the ex-participants and their organizations will make their utmost efforts to disseminate the knowledge and technology transferred by the Training Course to other relevant persons and institutions.

3. JICA has various modalities of the technical cooperation program, such as Training Programs for Overseas Participants, Expert Dispatch Programs, Equipment Provision Programs, Project-type Technical Cooperation Programs and Development Studies, which can be made available upon request. The Team believes that the dissemination of technology and knowledge transferred by the Training Course is the highest priority to achieve further social and economic development, and is willing to utilize the above-mentioned modalities of technical cooperation in order to enhance the ex-participants' activities, thus strengthening their institutional base.

4. The Team would like to express their deepest gratitude for the warm welcome and kind cooperation extended them during the period of their stay in Bangladesh.

Dhaka, October 23, 1997

岩瀬 三夫
Mitsuo IWASE, Team Leader

Follow-up Study Team

for Ex-participants of the Training Course on
Surveying and Mapping,

Japan International Cooperation Agency

付表 5(2) 各訪問機関に提出した英文所見 (ネパール)

BRIEF REPORT
OF THE FOLLOW-UP STUDY TEAM
FOR EX-PARTICIPANTS OF THE TRAINING COURSE
ON SURVEYING AND MAPPING

The Japanese Follow-up Study Team (hereinafter referred to as the "Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Mitsuo IWASE, Deputy Head, International Affairs Office, Planning Department, Geographical Survey Institute, Ministry of Construction, visited the Kingdom of Nepal from October 26 to October 30, 1997, for the purpose of identifying the actual circumstances of the ex-participants' activities and the dissemination of the technology and knowledge gained from the Group Training Course in Surveying and Mapping II and Global Mapping (hereinafter referred to as the "Training Course"), and obtaining feedback to improve future training courses.

During their stay in the Kingdom of Nepal, the Team carried out a field study, shared views and opinions, and had discussions with ex-participants and other persons concerned including officials of the Government of Nepal and ex-participants' supervisors, on technological and administrative matters regarding the Training Course, so as to evaluate the effectiveness of the Training Course from various viewpoints.

As a result of the field study and discussions, before leaving Nepal, this brief report has been prepared to summarize comments and recommendations presented by the Team for the benefit of the respective governmental departments in as follows.

I. INTRODUCTION

In response to needs concerning training in areas related to Surveying and Mapping which are on the increase in developing countries, the Government of Japan established the Training Course which focuses on technology transfer for the technicians working in areas related to Surveying and Mapping, in order to make their development

capacities more effective and efficient, thus contributing to the acceleration of social and economic development.

Based on the above-mentioned training needs, the contents of the Training Course was formulated jointly by JICA and the Geographical Survey Institute as the training institution as follows.

(1) The purpose of the Training Course is two-fold:

- a. to acquaint participants with both basic and up-to-date surveying and mapping technology in Japan, and
- b. to deepen their understanding of the concept and the management skill of global mapping.

The Training Course in Surveying and Mapping II began in 1990, and reorganized in 1992 to cover all the fields of surveying and mapping technology including the basic theory. The number of participants completed Surveying and Mapping II course is 65 from 31 countries. Among them, 6 participants are from Nepal.

The Training Course in Global Mapping began in 1994. The first time was held as special a seminar including the participation at the first International Work Shop on Global Mapping held in Izumo-city. Now, the program is organized for practical training. The number of participants completed Global Mapping course is 24 from 14 countries. Among them, 1 participants are from Nepal.

II. OBJECTIVE OF THE TEAM

The Team's main purpose is to advise ex-participants, the ex-participants' organizations, and related institutions on technical problems in the field of Surveying and Mapping, as well as to study the results of the training in order to effectively evaluate the Training Course.

In addition, the Team will assess :

- (a) the technological levels in the relevant fields,
- (b) obstructions to technical improvement, and
- (c) future training needs, including the consideration of related and incidental

fields, in order to improve the training course, develop the new training courses, and strengthen both the national and regional approaches of JICA's Training Programs.

III. MEMBERS OF THE TEAM

(1) Mitsuo IWASE (Team Leader)

Deputy Head, International Affairs Office, Planning Department,
Geographical Survey Institute, Ministry of Construction

(2) Kazuyuki TANAKA (Technical Adviser)

Technical Specialist, International Affairs Office, Planning Department,
Geographical Survey Institute, Ministry of Construction

(3) Noriaki MURASE (Coordinator)

Staff, First Training Division,
Tsukuba International Centre, Japan International Cooperation Agency

IV. FOLLOW-UP STUDY TEAM'S ITINERARY

Sunday, October 26

- 1. Arrival in Kathmandu**
- 2. Preliminary meeting at Hotel Kido**

Monday, October 27

- 1. Courtesy call to JICA Nepal Office**
- 2. Courtesy call to the Embassy of Japan**
- 3. Courtesy call to Mr. P.P. OLI, Director General, Survey Department**

4. Visit to Mapping Division
5. Visit to Survey Training Centre, Dhulikhel

Tuesday, October 28

1. Courtesy call to Mr. Y. SHAH, Special Secretary,
Ministry of Land Reform and Management
2. Interview with Mr. P.P. OLI, Director General, Survey Department
3. Interview with Ex-participants on "Surveying and Mapping II"
and "Global Mapping"
4. Visit to Surveying Site

Wednesday, October 29

1. Courtesy call to Mr. L.B.BAM, Secretary,
Ministry of Land Reform and Management
2. Seminar on "Surveying and Mapping" at Survey Department
3. Luncheon at Hotel Everest
4. Final meeting at JICA Nepal Office
5. Dinner to be hosted by Director General of Survey Department

Thursday, October 30

-Departure from Nepal

V. SUMMARY OF THE FOLLOW-UP STUDY

As a result of the follow-up study, the Team came to the following conclusions:

1. It was a great pleasure to have the opportunity to visit Nepal, and to have warm discussions with the ex-participants of the Training Course. Before leaving Nepal, the Team hereby intended to submit a Brief Report on the follow-up study's activities carried out from October 26, 1997.
2. The Team conducted the follow-up study based on the interviews and questionnaires

completed by the ex-participants. The Team interviewed 7 ex-participants from Survey Department. and visited Survey Training Centre and Surveying Site. As a result of the interviews and visiting, the Team confirmed that all the ex-participants had accomplished the Training Course successfully gaining new knowledge and technologies related to Surveying and Mapping.

Currently, items suggested by ex-participants are summarized as follows:

- re-fresher training programs on new technologies of Surveying and Mapping
- provision of technical information

These valuable suggestions from the ex-participants will be considered carefully by those involved with the Training Course of JICA and the training institute, to obtain feedback to improve future training courses.

The Team interviewed the six ex-participants mentioned below.

a. Surveying and Mapping II

- (1) Mr. Deepak Sharma Dahal
Survey Officer, Survey Department
- (2) Mr. Kalyan Gopal Shrestha
Chief Survey Officer, Survey Department
- (3) Mr. Umesh Kumar Joshi
Survey Officer, Survey Department
- (4) Mr. Bal Bahadur Bandari
Survey Officer, Survey Department
- (5) Mr. Hari Man Tumbhangfe
Survey Officer, Survey Department
- (6) Mr. Govinda Prasad Adhikari
Survey Officer, Survey Department

b. Global Mapping (Environment)

- (1) Mr. Raja Ram Chhatkuli
Chief Survey Officer, Survey Department

3. The Team confirmed that all the ex-participants are satisfied with the contents of the Training Course. They have been actively introducing the knowledge and technologies transferred by the Training Course to their technical activities, and they have also been disseminating the acquired knowledge, technologies and experience to their co-workers. And after the Training Course had been finished, Some ex-participants submitted the concerned papers to the Nepal Survey Society.

4. The Team confirmed that the ex-participants' organization have been taking the appropriate measures to provide stable service conditions to ex-participants and improve their capacities, to make the most of the technology and knowledge obtained through the Training Course after returning to Nepal. The Team also confirmed that the ex-participants' organization have been stressing the significance and importance of the dissemination of the ex-participants' knowledge and techniques acquired the Training Course.

5. With respect to the implementation of the Training Course, several significant ideas and opinions were expressed by the ex-participants. Particularly They request the necessity of the special course for the ex-participants and new technical information on Surveying and Mapping. In that point, the Team will discuss with the concerned organizations in Japan. And it is expected that these opinions will be made good improving of Training Course.in future.

6. The ex-participants' organization have been requesting the dispatch of experts to JICA. It is expected that the ex-participants' organization will discuss with JICA Nepal office continuously.

VI. SUGGESTIONS AND RECOMMENDATIONS MADE BY THE TEAM

As a result of the discussions and the field study, the Team is making the following recommendations to the ex-participants and the ex-participants' organizations:

1. It is expected that the ex-participant's organization continue to provide the further necessary support to the ex-participants in order a) to facilitate developing the ex-participants' activities utilizing the knowledge and technology transferred by the Training Course, and b) to further strengthen the technical capacities of the ex-participants' organizations.

2. This year, there are no participants on both "Surveying and Mapping II" and "Global Mapping (Environment)" training course. Both the Team and the ex-participant's organization expect the further cooperation in order to implement the Training Course. It is expected that The Nepal government give careful consideration to our cooperation.

3. JICA has various modalities of the technical cooperation program, such as Training Programs for Overseas Participants, Expert Dispatch Programs, Equipment Provision Programs, Project-type Technical Cooperation Programs and Development Studies, which can be made available upon request. The Team believes that the dissemination of technology and knowledge transferred by the Training Course is the highest priority to achieve further social and economic development, and is willing to utilize the above-mentioned modalities of technical cooperation in order to enhance the ex-participants' activities, thus strengthening their institutional base.

4. The Team would like to express their deepest gratitude for the warm welcome and kind cooperation extended them during the period of their stay in Nepal.

Kathmandu, October 29, 1997


Mitsuo IWASE, Team Leader

Follow-up Study Team
for Ex-participants of the Training Course on
Surveying and Mapping,
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付表6. 持ち帰り資料一覧

1. バングラデシュ 特になし

2. ネパール

(ネパール測量局)

- ・ An Introduction to Survey Department, Nepal
- ・ Nepal Surveyor (Vol.1, No.1)
- ・ Nepal Surveyor (Vol.2, No.1)
- ・ Nepal Surveyor, Special Issue (Vol.3, No.1)



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