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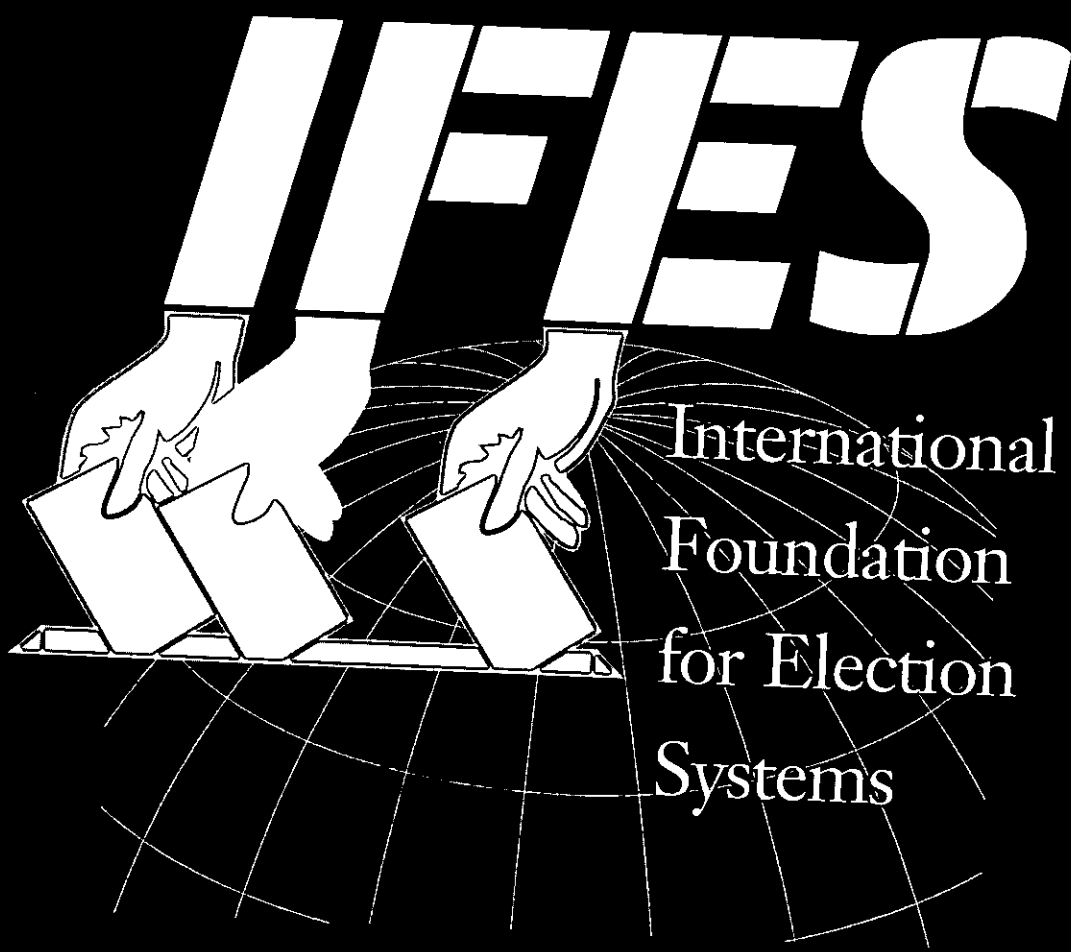
IFES
International
Foundation
for Election
Systems

KINGDOM OF NEPAL

TRANSMISSION OF RESULTS

FOR

THE PARLIAMENTARY GENERAL ELECTIONS

MAY 1999

Report on IFES Technical Assistance

to the Election Commission of Nepal

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TABLE OF CONTENTS

I. INTRODUCTION

The IFES team that undertook the Nepal election assistance project consisted of the IFES Senior Program Assistant for Asia, Senior IT Specialist, and IFES consultant Dr. Jorge I. Tirado, a computer professional and computer lawyer with extensive experience in electoral systems.

The IFES consultant arrived in Nepal on April 23, 1999. He began the assignment by gathering and evaluating pertinent information in order to determine, as an independent entity, if the envisioned system for transmitting election results would comply with officials' expectations.

IFES provided technical assistance to the Election Commission of Nepal (ECN) in several areas, to improve the transmission and reporting of election results for the May 1999 national election:

- assistance with the procurement of computer equipment, and
- assistance with developing, testing, and implementing a reporting system with the ability to receive, tally, and count election results accurately and efficiently.

The main concern of the project was to help the Election Commission develop and install a system with the ability to comply with minimum election standards, those that an election official would expect an election tally and results transmission system to be able to handle. The IFES team effectively succeeded in its efforts, thus helping the ECN obtain a reliable and timely results transmission system.

The system implemented consisted of a central computerized results receiving center, where constituency results summaries were periodically sent via fax from the districts. The receiving center processed results and distributed the information to government officials, media, and the general public, via Intranet and Internet.

It is clear that the system should be enhanced in the future to include the use of computers in the vote tally process at the district level, and transmit results from the districts via telecommunication to the central office. The current system won praise during the 1999 elections, however, for its capacity to facilitate data capturing, processing, and dissemination of election results.

During the trip to Nepal, the IFES consultant had several meetings with the U.S. Embassy Political Officer and the US Ambassador to Nepal. He had several informal discussions on the current election results project status and future electoral process in Nepal, as well as a debriefing at the end of the mission.

II. STATEMENT OF SITUATION

During the 1999 general elections, IFES assisted the Election Commission of Nepal in establishing a trustworthy centralized vote tally and results transmission system. The ECN achieved its primary goal, which was to implement a system that would help in the conduct of a democratic election process, a timely and effective transmission process of results, and the publicizing of the election results information within a reasonable time frame. This was an improvement from previous elections which were hindered by poor control, distrust, and fraud, and which resulted in a prolonged tally of votes and untimely dissemination of results.

A. Project Assessment

The IFES technical assistance project to the ECN commenced on April 23 1999. After arriving in Nepal, the IFES consultant began the project by gathering and evaluating pertinent information in order to determine, as an independent entity, if the envisioned Nepal election results transmission system would comply with officials' expectations. As a first step, the consultant reviewed all available reports and documents, met with several election officials and suppliers, and made himself familiar with Nepal's voting system problems and issues.

IFES supported the Nepal results transmission system in several ways: procuring computer equipment, and helping to develop, test, and implement a system with the ability to receive, tally, and count election results accurately and efficiently.

The main goal of the project was to help develop and install a system with the ability to comply with minimum election standards that an election official would expect an election tally and results transmission system to be able to handle.

After a preliminary evaluation, IFES found that the ECN results transmission project lacked organization and planning. It was evident from the preliminary evaluation that, although the director and person in charge of the project is a very competent professional, he wore many hats and had many responsibilities, and was alone in the endeavor. For this reason, the consultant undertook some project management responsibilities to assist the director in the project tasks.

The implementation of a new system was established by a joint effort with the ECN computer technicians, the software and hardware vendor's staff, the project director, and the IFES consultant acting as the logistics and strategic planner. In order to manage the project more efficiently, a detailed project design, a Critical Path Method (CPM) (Appendix 1), and a periodically updated Gantt Chart (Appendix 3) were created as the basis for the ongoing development and implementation of the project. The CPM illustrated the work order flow for the Results Receiving Center. The Gantt Chart detailed technical activities to be accomplished during the project. The project was evaluated and modified periodically by incorporating the results of the technical, logistic, and strategic evaluation findings, until a working solution was found.

As part of the project management strategy, a statistical analysis system of past and present data was developed and implemented. It was geared toward the elaboration of a management planning tool that would determine the expected work load and project the receipt of results at a central site. The final outcome was outstanding. When compared to the actual results, the projections were very similar to reality. This tool helped the team establish the resources needed for the project, and develop work schedules based on expected projections.

The implemented system was reliable and timely. It consisted of a central computerized results receiving center, where periodic constituency results summaries were sent via fax from the districts. The receiving center processed results distributed the information to government officials, media, and the general public via Intranet and Internet.

The system's ability to handle vote tally problems at the constituency or district level was tested during the May 1999 elections and proved to work well within its current capacity. As previously indicated, it is clear that the system should be enhanced in the future to include the use of computers in the vote tally process at the district level. It is also understood that election results should be processed and entered at district offices and transmitted to the central office.

Although the implemented system has met the ECN's expectations for the past election, it has been agreed that in the future a new system for the results transmission and counting process should be implemented. Such a system should incorporate the use of computers, be oriented towards gathering and processing results at the district level, and use an online telecommunications network to transmit information to and from the central office. The new system should comprise a network that best fits Nepal's process in dealing with election fraud and dissemination of election results while working within the structure and constraints of the country's telecommunication infrastructure. Considering these factors, it is necessary to conclude that any conceptual design for a future election system will need to include the use of computers at the district level for the vote tally and the transmission of election results.

III. CURRENT SYSTEM

A. Introduction

For reasons outlined in the Nepal election law, no counting is done at the polling stations. After the closing of polls, ballots are transported directly to the constituencies, and from there to the districts' centralized counting centers. The ballot totals are subsequently sent via fax to the Central Results Receiving Center at the Election Commission's national office.

The following points support the district counting center approach:

- The returning officer, who has the responsibility to oversee the counting of the ballots, is assigned to the district headquarters.
- Polling stations are not properly equipped for counting, and security conditions are such that it is deemed easier to secure the protection of a smaller number of counting centers than a large number of polling stations.
- There are very few party or candidate representatives and national or international electoral observers available to observe the count in a large number of polling stations.
- Ballot counting is too time-consuming and complicated for the poll workers to manage after the close of the station. By contrast, counting centers offer specially trained personnel and facilities.

The counting center is at the electoral district level, but the total tally is done at the national level. The limit to the level of centralization is at the constituency level where votes are translated into a number of legislators or seats. There are 75 district counting centers each divided by constituency counting groups, and one national Results Receiving Center.

B. The Counting Centers

At the closing of the polls, poll workers seal the ballot boxes and prepare them to be transported to a counting center along with related documents such as the ballot account form. The district counting center receives the ballot boxes from the constituencies together with results of special ballots, advance polls, and results from police, army and telephone company reporting stations, etc. Ballot boxes are sorted in order of constituency and when all ballot boxes for a particular constituency have been received, they are tallied. Before the tally, within a constituency, the content of the ballot box for a given polling place is mixed together with two or more boxes, after physical count reconciliation, to protect the identity of polling stations and/or voters. The statement of the vote for each constituency in the counting center is sent to the central Results Receiving Center at the ECN office in Kathmandu. The representatives of political parties, press, and national and international electoral observers are allowed to copy the results.

It should be noted that releasing interim results is generally much slower when ballots are counted at counting centers. There are several reasons for this:

- The counting process can only start once all ballot boxes for a particular constituency have arrived at the center.
- Many personnel are involved in the process (required for the reception, storage, and dispatch of ballot boxes).
- Counting may be delayed, since several days are required to receive and count all ballots.
- More elaborate procedures need to be followed (due to volumes of materials and personnel).
- More control mechanisms must be introduced (controlling access to location by observers, candidates, party representatives), etc.
- Logistical complexities of moving ballot boxes and related materials to the counting center can be an obstacle, as transportation is difficult and not readily available.

C. The Results Receiving Center

While preparing the cumulative statement of the vote for constituencies that have been counted, and for the entire counting center, progress reports are also being prepared by constituency. They are transmitted directly via fax to the Results Receiving Center at the Election Commission, as results for electoral constituencies are available. The results are released as they come in and are verified.

Representatives of political parties, candidates, the press, and national and international electoral observers are allowed to view and make notes of the progress reports, the statement of the vote for each constituency, and the cumulative statement of the votes. The results were posted on the ECN Internet site, www.election-commission.org. (IFES assisted the ECN in constructing this site. See Appendix 7 for a graphic of the home page. The site is currently inactive.)

The Results Receiving Center at the ECN receives interim results by constituency from the district offices, on an hourly basis. The hourly results received for a particular constituency will replace the previous results transmitted. All results are tallied by political party/candidate/option and publicized as soon as possible. Additional verification procedures are applied at the Results Receiving Center.

1. Application of Technology

While counting paper ballots manually is still the current method used at the district counting centers, automated methods of transmitting and tallying preliminary results are being used in the

Results Receiving Center at the Election Commission. Computerized means of capturing and verifying such results have been implemented, and innovative methods to tally results have been incorporated. Periodically updated information is released to the press and general public, making the results reporting system more accessible, transparent, and effective. Technology has the potential to dramatically improve the process of tallying results and releasing information to the media and public in a timely manner. Making information more accessible to the public in a fast and accurate way improves the democratic process.

It is important to note that the use of computers in vote counting systems requires care to function correctly, even if the system will be used only to compile preliminary results. Checks and balances have been incorporated into this system to detect any faulty calculations, data entry errors, or loss of data that can seriously compromise the conduct of election results. Balancing figures ensures that output results are consistent with inputs. Rigorous testing and several simulations were performed to ensure that the systems worked flawlessly before being placed in production.

2. *The Preliminary Results Tally System*

The results from the constituencies tallied at the district counting centers are sent via fax to the Results Receiving Center. They constitute the input to the system. For that purpose, data entry forms have been designed to facilitate the manual filing and handling of documents at the district level, as well as to minimize error and facilitate the data entry process. Their design will mirror the data entry screen to facilitate training and use by persons who will participate in the process.

In the Results Receiving Center (see Appendix 2 for a layout of the Center), faxes come in to the receiving section and are then routed to the inspection section. There the documents are inspected for completion and readability. If the document cannot be read or the fax is incomplete, it is routed to the control section, to request retransmission. If it is correct, it is routed to the data entry section.

At the data entry section, the information is entered into the system. The system will not accept duplicate documents or documents that do not comply with pre-established security measures. If the document is a duplicate, it is rejected and routed to the filing section. If it does not comply with the security measures, it is routed to the validation and modification section. If it is not a duplicate, it is entered into the system and routed to the verification section.

As a security measure, data entered into the system is always verified and checked against the original input data. This is done at the verification section, by using a team of two persons (one verification operator and one verification inspector) to check figures after data entry against the input documents. The verification operator and inspector can not change or modify the data; they can only accept or reject the information. If the information is accepted, it updates the database, and the document is routed to the filing section. If it is rejected, it is routed to the validation and modification section to be examined for modifications or final rejection. If it is rejected, the document is routed to the filing section and the information is not updated. If the information is

modified, the document will return to the verification station for evaluation, final acceptance, and information update.

The control section keeps track of all constituencies within a particular district counting center. This section is equipped with two telephones and one computer station connected to the monitoring portion of the system, to identify and resolve any problem and to monitor the flow of the information from the districts.

D. Backup and Contingency

To support the results tally system, two file servers were installed at the computer center for redundancy, backup, and contingency purposes. The tally system was installed in both servers and data was copied periodically, in order to maintain a backup image in case of hardware failure. Data was regularly backed up and stored off-site for as long as the counting continued.

For support, technicians from the main equipment supplier were present at the computer site to resolve any problems that arose. For power backup, the ECN office relied on a back up power plant available to guard against power failure. Also, power supplies protected against power surges that can corrupt or destroy computer files.

A manual contingency plan was anticipated, although minimum required information would be supplied. In a worst-case scenario, it is impossible to switch to a completely manual operation. Should the computer system fail and not be recovered, the tally system would revert to the use of portable calculators and other manual operations.

E. Internet and World Wide Web

Access by public and private computers was available over the Internet and the World Wide Web. Election results were uploaded directly onto the World Wide Web and to the ECN private Intranet. For the first time in Nepal, election results were posted instantaneously to a global audience using the Internet. Downloading of files with updated results information was also available to the media via the Internet, by the use of a special password.

IV. LESSONS LEARNED

The project consisted of three major components: software development assistance, procurement of hardware, and consulting and technical assistance.

A. Software Development Assistance

Subcontracting the software development phase to a local vendor with direct supervision and assistance from IFES proved to be a big success for the Nepal project. A local vendor can understand local idiosyncrasies, work well with the Election Commission, and actually test the software with user participation and suggestions. The experience IFES brought to the project and its role in direct supervision was a key factor and great advantage to the development of the project.

B. Hardware Procurement

The purchase of equipment was a potential problem area due to the tight delivery schedule caused by the late release and final approval of funds. Nevertheless, it was an interesting experience that showed the team that the purchase and delivery of US-manufactured computer equipment in the continental USA is not always the best and most cost effective option. Most countries have distributors and/or representatives of US manufactured equipment; they not only sell at competitive prices, but also supply other required services. Purchasing from a local vendor gave IFES the opportunity to include as a bundle, in the local purchase, not only the hardware, but also the installation, integration, and support of all the hardware components as well as on-site support during the election process.

It has been learned that by purchasing from a local vendor, the Election Commission of Nepal was able to have the equipment installed, integrated, and tested on time. The purchase price was similar to the quotes obtained from the stateside vendors. It was also important to obtain service and support from the local vendors since the Election Commission did not have at its disposal the needed expertise to install and integrate all the computer components under the Microsoft NT platform. The vendor did offer very good support and had support staff on hand during the election process, all included in the hardware purchase price. It should be noted that by purchasing US-manufactured hardware in the region, the project contributed to the local economy, and received the support and service required for this type of operation. At the same time, IFES complied with the requirement to purchase US-manufactured equipment.

C. Consulting and Technical Assistance

IFES was able to successfully conclude its technical assistance and help the Election Commission of Nepal attain its goals and meet expectations. However, for the next election cycle, IFES recommends upgrading the project to establish a distributed processing results transmission system from the districts. This will require a nominal increase in project resources and on-site technical assistance.

V. APPENDICES

1: Critical Path Method

2: Receiving Center Layout

3: Gantt Chart: General Requirements Plan

4: Expected Flow of Results

5: Declared Constituencies Results Chart

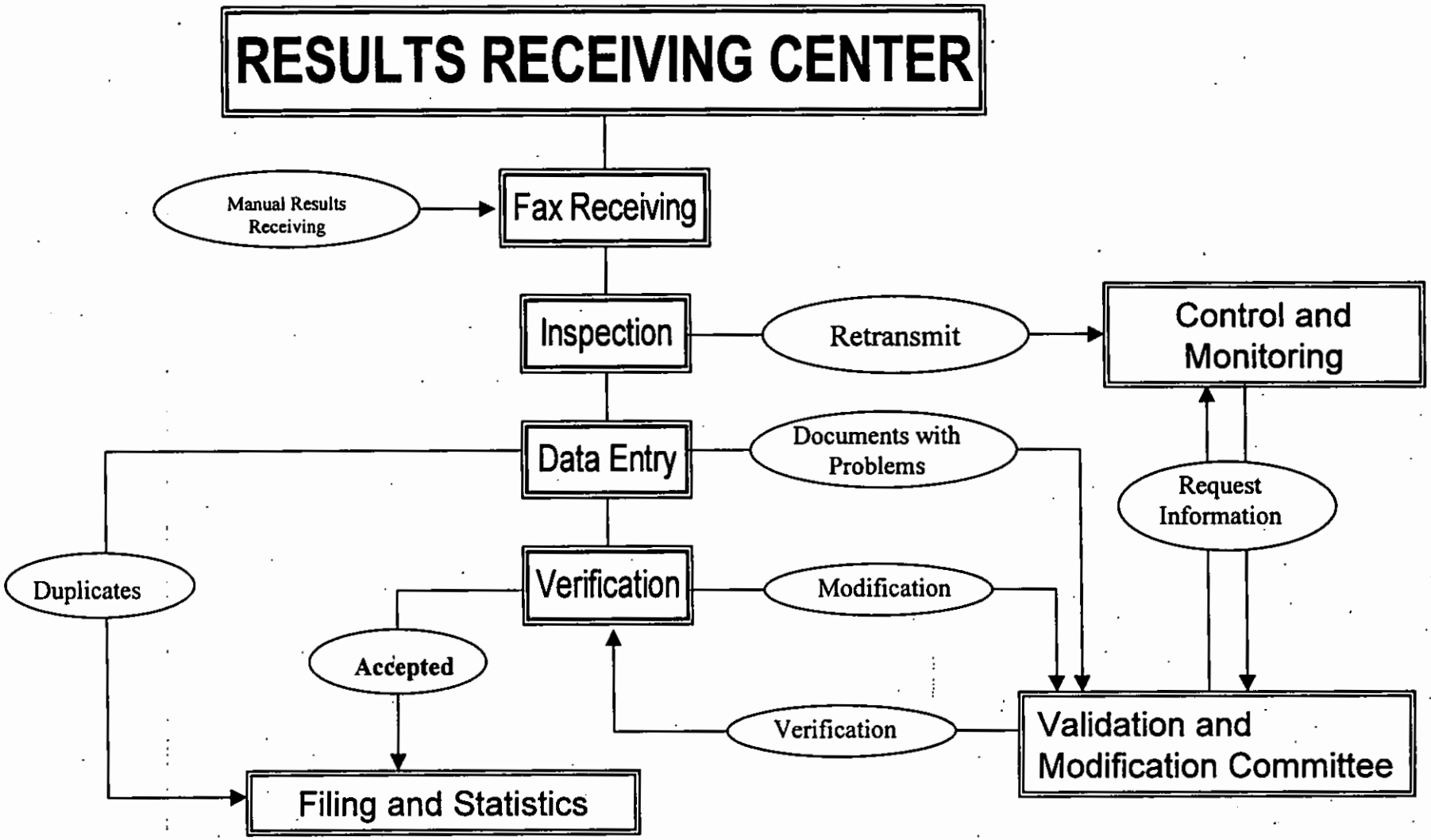
6: Declared Constituencies Results Graph

7: Election Commission of Nepal Internet Site

APPENDIX 1

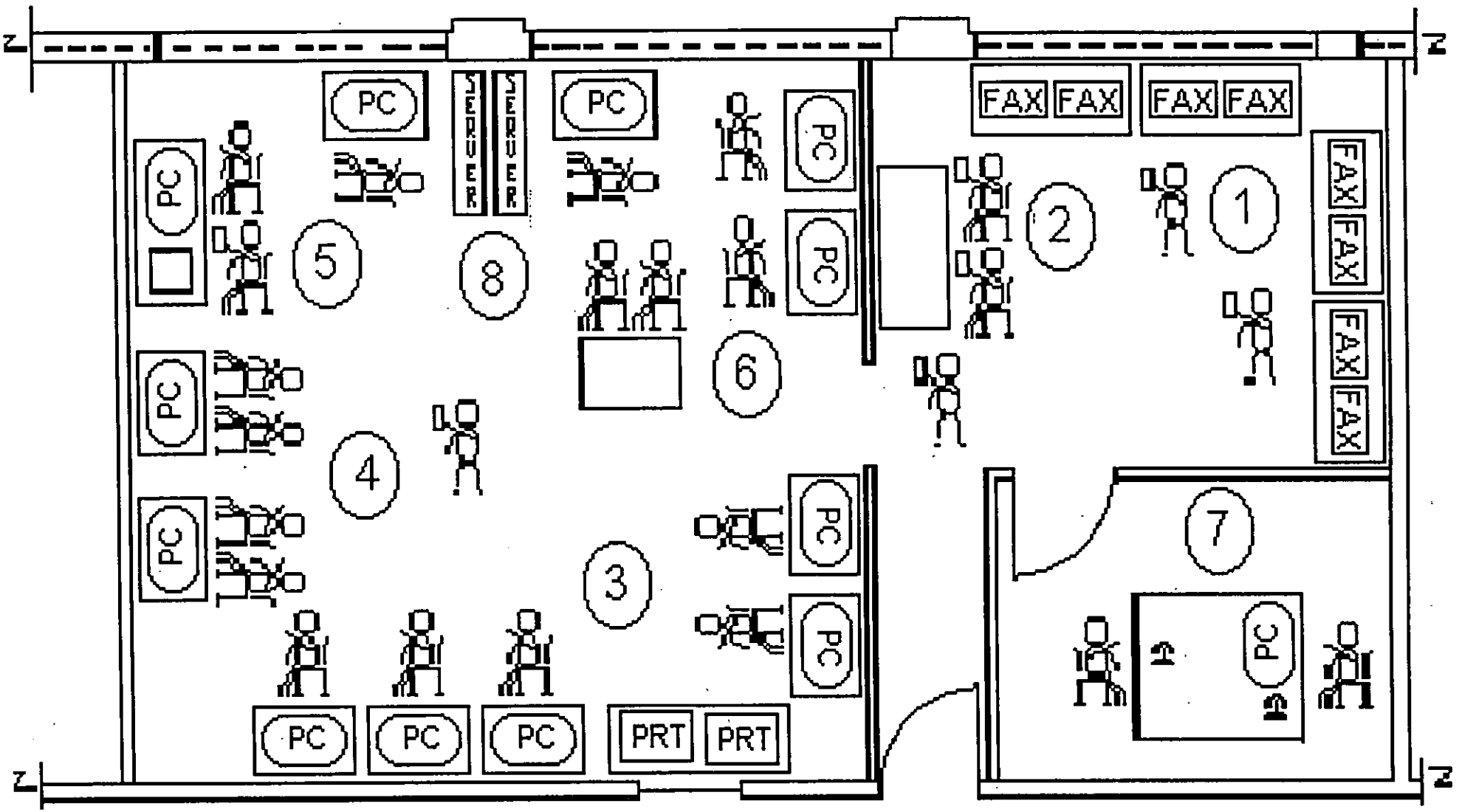
Critical Path Method

RESULTS TRANSMISSION
NEPAL ELECTIONS COMMISSION



APPENDIX 2

Receiving Center Layout



1. Fax Receiving
2. Inspection
3. Data Entry
4. Verification
5. Filing & Statistics
6. Validation & Modification
7. Control & Monitoring
8. Internet/Intranet Posting

APPENDIX 3

Gantt Chart: General Requirements Plan

NEPAL E.C.			A	P	R	I	L													M		A		Y						
	2	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2
Preliminary Results Transmissior	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
May,1999	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
GENERAL REQUIREMENTS PLAN																															
Logistics for the results tally																									D						
Test software				x	x	x	x	x	x	x	x	x	x	x	x						x				D						
Install and test results reporting software																				x	x				D						
Test hardware									x	x	x	x	x	x											D						
1st simulation																	x								D						
2nd simulation																						x			D						
Definition of the Receiving Center (RC)						x	x	x																	D						
Definition of the Media Center (MC)						x	x	x																	D						
Resources determination						x	x	x																	D						
Assignment of human resources											x	x	x	x											D						
Reproduction of user manuals																							x		D						
																									D						
Meetings and activities																									D						
Meetings to define final system details		x	x	x		x	x	x																	D						
Meetings to follow-up on system details						x					x				x	x	x	x			x	x	x		D						
Distribution of tasks						x					x												x		D						
Software system acceptance												x													D						
Computer equipment acceptance											x	x	x	x											D						
Revisions						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		D						
Meetings for final adjustments to system								x	x																D						
Final revision											x														D						
Presentations to EC and media																						x			D						
																									D						
Simulations																									D						
1st simulation (10% of documents)																	x								D						
2nd simulation (30 - 50% of documents)																						x			D						
																									D						
Presentations																									D						
Presentation tests to EC																						x			D						
Presentation tests to media																						x			D						
																									D						
Software																									D						
Develop the modules for:																									D						
Area for document manual receiving				x	x	x	x	x	x	x	x	x	x	x											D						
Area for fax/telephone				x	x	x	x	x	x	x	x	x	x	x											D						
Area for control				x	x	x	x	x	x	x	x	x	x	x											D						
Area for document inspection				x	x	x	x	x	x	x	x	x	x	x											D						
Area for data entry				x	x	x	x	x	x	x	x	x	x	x											D						
Area for verification				x	x	x	x	x	x	x	x	x	x	x											D						
Area for monitoring and modification				x	x	x	x	x	x	x	x	x	x	x											D						
Area for document filing and statistics				x	x	x	x	x	x	x	x	x	x	x											D						
Backup process																		x	x	x	x				D						
Presentation tests to EC-MIS														x											D						
																									D						
Establish HR needs by area																									D						
Area for document manual receiving														x											D						
Area for fax/telephone														x											D						
Area for control														x											D						
Area for document inspection														x											D						
Area for data entry														x											D						
Area for verification														x											D						
Area for monitoring and modification														x											D						
Area for document filing and statistics														x											D						
																									D						

NEPAL E.C.			A	P	R	I	L												M		A		Y						
	2	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
Preliminary Results Transmission	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
May,1999	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
Working areas setup																									D						
Area for document manual receiving																			x	x	x				D						
Area for fax/telephone												x	x	x					x	x	x				D						
Area for control																			x	x	x				D						
Area for document inspection																			x	x	x				D						
Area for data entry												x	x	x					x	x	x				D						
Area for verification																			x	x	x				D						
Area for monitoring and modification																			x	x	x				D						
Area for document filing and statistics																			x	x	x				D						
																									D						
Education and training																									D						
Develop user manuals for operation																				x					D						
Revision and adjustments																					x				D						
Course for instructors														x	x										D						
Education to operations														x	x										D						
Support in events																					x				D						
Education for receiving personnel														x	x										D						
Education for the Intranet																					x				D						
																									D						
Internet																									D						
Design page	ok																								D						
Develop page/system	ok																								D						
Revision with EC-MIS												x	x												D						
Obtain the historic data							x	x	x																D						
Develop interface with results system																	x								D						
Develop access to data							x	x	x	x	x	x													D						
Control security access							x	x	x	x	x	x									x				D						
1st presentation tests to EC-MIS										x	x														D						
2nd presentation tests to EC-MIS															x										D						
																									D						
Fax Installation																									D						
Telephone lines installation and test	ok																								D						
Install and test faxes	ok																								D						
																									D						
Media Center setup																									D						
Area for press																			x	x	x				D						
Area for auditorium and reception																			x	x	x				D						
																									D						
Hardware Installation and setup																									D						
Define final server specifications and vendor						x	x																		D						
Order servers - equipment						x	x	x																	D						
Define final requirements for cabling						x	x																		D						
Order cables and communication equipment						x	x																		D						
Install cables and communication equipment											x	x	x	x											D						
Define final requirements electrical installation						x	x																		D						
Order electrical materials						x	x	x																	D						
Install electrical system								x	x	x	x														D						
Install server equipment											x	x	x	x	x										D						
Install other equipment for simulation											x	x	x	x	x										D						
Final install of equipment for RC																		x	x	x	x				D						
Final install of equipment for MC																		x	x	x	x				D						
Movement of actual equipment to RC & MC																				x	x				D						
Hardware and system software training											x	x	x	x	x										D						
																									D						

NEPAL E.C.			A	P	R	I	L												M		A		Y						
	2	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2
Preliminary Results Transmissior	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
May,1999	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
Telecommunications																									D						
Coordinate instal. of telephone dedicated lines						x	x	x																	D						
Follow-up to telephone lines for faxes & Chiva							x	x	x	x	x	x	x	x	x	x	x	x							D						
Installation of dedicated line																		x	x						D						
Installation of other lines																		x	x						D						
Installation cisco router																			x	x					D						
Test dedicated line																				x	x				D						
Test other lines																				x	x				D						
																									D						
Internet telecommunications required																									D						
Define req. for media and ISP connection						x	x	x																	D						
Order materials							x	x																	D						
Cabling and H/W connection											x	x	x												D						
Test											x	x	x	x	x			x	x	x	x				D						
																									D						
Stand-by maintenance support																									D						
Telecommunications																									D						
Application software																									D						
System software																									D						
Hardware																									D						
Power company																									D						
Police																									D						
Telephone company																									D						
																									D						
MIS																									D						
Setup equipment:																									D						
Processors																									D						
PCs																									D						
Printers																									D						
Internet																									D						

X = Day of activity

X = Final day of activity

D = Election day

ok = Preparation complete with no activity needed

ATTACHMENT 4

Expected Flow of Results

Expected Flow of Results in Alphabetical Order by Distrct and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Achham	68	Const.No. 1	0	45,000	8,737	0	0	0	0	0	0	53,737
Achham	68	Const.No. 2	0	0	45,000	6,746	0	0	0	0	0	51,746
Argha Khanchi	44	Const.No. 1	0	0	44,424	0	0	0	0	0	0	44,424
Argha Khanchi	44	Const.No. 2	0	0	44,964	0	0	0	0	0	0	44,964
Baglung	50	Const.No. 1	0	40,847	0	0	0	0	0	0	0	40,847
Baglung	50	Const.No. 2	0	39,185	0	0	0	0	0	0	0	39,185
Baglung	50	Const.No. 3	0	0	36,160	0	0	0	0	0	0	36,160
Baitadi	73	Const.No. 1	0	0	40,266	0	0	0	0	0	0	40,266
Baitadi	73	Const.No. 2	0	0	45,000	183	0	0	0	0	0	45,183
Bajhang	69	Const.No. 1	0	0	34,523	0	0	0	0	0	0	34,523
Bajhang	69	Const.No. 2	0	0	33,557	0	0	0	0	0	0	33,557
Bajura	67	Const.No. 1	0	0	0	45,000	488	0	0	0	0	45,488
Banke	65	Const.No. 1	13,125	35,832	0	0	0	0	0	0	0	48,957
Banke	65	Const.No. 2	13,125	25,893	0	0	0	0	0	0	0	39,018
Banke	65	Const.No. 3	13,125	32,678	0	0	0	0	0	0	0	45,803
Bara	33	Const.No. 1	13,125	33,875	0	0	0	0	0	0	0	47,000
Bara	33	Const.No. 2	13,125	34,603	0	0	0	0	0	0	0	47,728

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Bara	33	Const.No. 3	13,125	43,574	0	0	0	0	0	0	0	56,699
Bara	33	Const.No. 4	13,125	41,587	0	0	0	0	0	0	0	54,712
Bardiya	66	Const.No. 1	13,125	34,182	0	0	0	0	0	0	0	47,307
Bardiya	66	Const.No. 2	13,125	33,015	0	0	0	0	0	0	0	46,140
Bardiya	66	Const.No. 3	13,125	32,406	0	0	0	0	0	0	0	45,531
Bhaktapur	27	Const.No. 1	13,125	30,399	0	0	0	0	0	0	0	43,524
Bhaktapur	27	Const.No. 2	13,125	36,730	0	0	0	0	0	0	0	49,855
Bhojpur	7	Const.No. 1	0	45,000	1,612	0	0	0	0	0	0	46,612
Bhojpur	7	Const.No. 2	0	45,000	1,015	0	0	0	0	0	0	46,015
Chitwan	35	Const.No. 1	13,125	32,300	0	0	0	0	0	0	0	45,425
Chitwan	35	Const.No. 2	13,125	35,489	0	0	0	0	0	0	0	48,614
Chitwan	35	Const.No. 3	13,125	33,369	0	0	0	0	0	0	0	46,494
Chitwan	35	Const.No. 4	13,125	32,983	0	0	0	0	0	0	0	46,108
Dadeldhura	74	Const.No. 1	0	45,000	3,197	0	0	0	0	0	0	48,197
Dailekh	63	Const.No. 1	13,125	27,116	0	0	0	0	0	0	0	40,241
Dailekh	63	Const.No. 2	13,125	29,348	0	0	0	0	0	0	0	42,473
Dang	56	Const.No. 1	13,125	34,622	0	0	0	0	0	0	0	47,747

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Dang	56	Const.No. 2	13,125	25,042	0	0	0	0	0	0	0	38,167
Dang	56	Const.No. 3	13,125	29,145	0	0	0	0	0	0	0	42,270
Dang	56	Const.No. 4	13,125	27,181	0	0	0	0	0	0	0	40,306
Darchula	72	Const.No. 1	0	0	45,000	243	0	0	0	0	0	45,243
Dhading	24	Const.No. 1	13,125	36,916	0	0	0	0	0	0	0	50,041
Dhading	24	Const.No. 2	13,125	44,449	0	0	0	0	0	0	0	57,574
Dhading	24	Const.No. 3	13,125	31,578	0	0	0	0	0	0	0	44,703
Dhankutta	8	Const.No. 1	0	32,296	0	0	0	0	0	0	0	32,296
Dhankutta	8	Const.No. 2	0	31,759	0	0	0	0	0	0	0	31,759
Dhanusha	20	Const.No. 1	0	45,000	750	0	0	0	0	0	0	45,750
Dhanusha	20	Const.No. 2	0	0	0	45,000	2,874	0	0	0	0	47,874
Dhanusha	20	Const.No. 3	0	0	0	45,000	2,843	0	0	0	0	47,843
Dhanusha	20	Const.No. 4	0	45,000	7,448	0	0	0	0	0	0	52,448
Dhanusha	20	Const.No. 5	0	0	0	0	0	43,313	0	0	0	43,313
Dolakha	17	Const.No. 1	13,125	28,154	0	0	0	0	0	0	0	41,279
Dolakha	17	Const.No. 2	13,125	24,735	0	0	0	0	0	0	0	37,860
Dolpa	57	Const.No. 1	13,125	234	0	0	0	0	0	0	0	13,359

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Doti	70	Const.No. 1	0	0	0	40,407	0	0	0	0	0	40,407
Doti	70	Const.No. 2	0	0	36,016	0	0	0	0	0	0	36,016
Gorkha	36	Const.No. 1	13,125	30,535	0	0	0	0	0	0	0	43,660
Gorkha	36	Const.No. 2	13,125	25,925	0	0	0	0	0	0	0	39,050
Gorkha	36	Const.No. 3	13,125	19,385	0	0	0	0	0	0	0	32,510
Gulmi	42	Const.No. 1	0	0	40,196	0	0	0	0	0	0	40,196
Gulmi	42	Const.No. 2	0	45,000	9,661	0	0	0	0	0	0	54,661
Gulmi	42	Const.No. 3	0	0	41,419	0	0	0	0	0	0	41,419
Humla	61	Const.No. 1	13,125	9,821	0	0	0	0	0	0	0	22,946
Illam	3	Const.No. 1	0	34,611	0	0	0	0	0	0	0	34,611
Illam	3	Const.No. 2	0	33,676	0	0	0	0	0	0	0	33,676
Illam	3	Const.No. 3	0	33,402	0	0	0	0	0	0	0	33,402
Jajarkot	62	Const.No. 1	13,125	12,710	0	0	0	0	0	0	0	25,835
Jajarkot	62	Const.No. 2	13,125	10,110	0	0	0	0	0	0	0	23,235
Jhapa	4	Const.No. 1	0	44,452	0	0	0	0	0	0	0	44,452
Jhapa	4	Const.No. 2	0	45,000	4,900	0	0	0	0	0	0	49,900
Jhapa	4	Const.No. 3	0	45,000	3,638	0	0	0	0	0	0	48,638

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Jhapa	4	Const.No. 4	0	42,827	0	0	0	0	0	0	0	42,827
Jhapa	4	Const.No. 5	0	42,834	0	0	0	0	0	0	0	42,834
Jhapa	4	Const.No. 6	0	45,000	12,364	0	0	0	0	0	0	57,364
Jumla	59	Const.No. 1	13,125	26,030	0	0	0	0	0	0	0	39,155
Kabhre	29	Const.No. 1	13,125	35,851	0	0	0	0	0	0	0	48,976
Kabhre	29	Const.No. 2	13,125	45,000	3,875	0	0	0	0	0	0	62,000
Kabhre	29	Const.No. 3	13,125	43,730	0	0	0	0	0	0	0	56,855
Kailali	71	Const.No. 1	0	45,000	3,007	0	0	0	0	0	0	48,007
Kailali	71	Const.No. 2	0	45,000	1,503	0	0	0	0	0	0	46,503
Kailali	71	Const.No. 3	0	45,000	2,906	0	0	0	0	0	0	47,906
Kailali	71	Const.No. 4	0	45,000	3,186	0	0	0	0	0	0	48,186
Kalikot	60	Const.No. 1	13,125	25,205	0	0	0	0	0	0	0	38,330
Kanchanpur	75	Const.No. 1	0	13,125	24,593	0	0	0	0	0	0	37,718
Kanchanpur	75	Const.No. 2	0	41,126	0	0	0	0	0	0	0	41,126
Kanchanpur	75	Const.No. 3	0	37,884	0	0	0	0	0	0	0	37,884
Kapilbastu	47	Const.No. 1	0	0	41,935	0	0	0	0	0	0	41,935
Kapilbastu	47	Const.No. 2	0	0	44,074	0	0	0	0	0	0	44,074

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Kapilbastu	47	Const.No. 3	0	41,680	0	0	0	0	0	0	0	41,680
Kapilbastu	47	Const.No. 4	0	42,216	0	0	0	0	0	0	0	42,216
Kaski	39	Const.No. 1	13,125	36,686	0	0	0	0	0	0	0	49,811
Kaski	39	Const.No. 2	13,125	43,402	0	0	0	0	0	0	0	56,527
Kaski	39	Const.No. 3	13,125	29,101	0	0	0	0	0	0	0	42,226
Kathmandu	26	Const.No. 1	0	0	0	0	0	0	0	0	43,763	43,763
Kathmandu	26	Const.No. 2	13,125	21,861	0	0	0	0	0	0	0	34,986
Kathmandu	26	Const.No. 3	0	0	0	0	0	0	0	0	41,748	41,748
Kathmandu	26	Const.No. 4	13,125	20,719	0	0	0	0	0	0	0	33,844
Kathmandu	26	Const.No. 5	13,125	22,598	0	0	0	0	0	0	0	35,723
Kathmandu	26	Const.No. 6	13,125	33,004	0	0	0	0	0	0	0	46,129
Kathmandu	26	Const.No. 7	13,125	30,699	0	0	0	0	0	0	0	43,824
Khotang	12	Const.No. 1	0	0	33,401	0	0	0	0	0	0	33,401
Khotang	12	Const.No. 2	0	0	45,000	4,794	0	0	0	0	0	49,794
Lalitpur	28	Const.No. 1	13,125	28,999	0	0	0	0	0	0	0	42,124
Lalitpur	28	Const.No. 2	13,125	29,283	0	0	0	0	0	0	0	42,408
Lalitpur	28	Const.No. 3	13,125	29,068	0	0	0	0	0	0	0	42,193
Lamjung	38	Const.No. 1	13,125	25,865	0	0	0	0	0	0	0	38,990

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Lamjung	38	Const.No. 2	13,125	27,649	0	0	0	0	0	0	0	40,774
Mahottari	21	Const.No. 1	0	0	0	45,000	3,051	0	0	0	0	48,051
Mahottari	21	Const.No. 2	0	0	0	45,000	4,054	0	0	0	0	49,054
Mahottari	21	Const.No. 3	0	0	0	0	45,000	3,044	0	0	0	48,044
Mahottari	21	Const.No. 4	0	45,000	3,887	0	0	0	0	0	0	48,887
Makwanpur	31	Const.No. 1	13,125	35,555	0	0	0	0	0	0	0	48,680
Makwanpur	31	Const.No. 2	13,125	37,590	0	0	0	0	0	0	0	50,715
Makwanpur	31	Const.No. 3	13,125	25,488	0	0	0	0	0	0	0	38,613
Manang	37	Const.No. 1	0	0	0	0	0	0	0	0	0	0
Morang	9	Const.No. 1	0	43,692	0	0	0	0	0	0	0	43,692
Morang	9	Const.No. 2	0	42,973	0	0	0	0	0	0	0	42,973
Morang	9	Const.No. 3	0	0	0	0	0	0	0	0	43,826	43,826
Morang	9	Const.No. 4	0	44,093	0	0	0	0	0	0	0	44,093
Morang	9	Const.No. 5	0	44,193	0	0	0	0	0	0	0	44,193
Morang	9	Const.No. 6	0	45,000	201	0	0	0	0	0	0	45,201
Morang	9	Const.No. 7	0	13,125	27,875	0	0	0	0	0	0	41,000
Mugu	58	Const.No. 1	13,125	8,124	0	0	0	0	0	0	0	21,249

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Mustang	48	Const.No. 1	0	0	6,839	0	0	0	0	0	0	6,839
Myagdi	49	Const.No. 1	0	44,731	0	0	0	0	0	0	0	44,731
Nawalparasi	45	Const.No. 1	0	45,000	7,246	0	0	0	0	0	0	52,246
Nawalparasi	45	Const.No. 2	0	45,000	3,456	0	0	0	0	0	0	48,456
Nawalparasi	45	Const.No. 3	0	42,138	0	0	0	0	0	0	0	42,138
Nawalparasi	45	Const.No. 4	0	45,000	6,988	0	0	0	0	0	0	51,988
Nuwakot	25	Const.No. 1	13,125	27,662	0	0	0	0	0	0	0	40,787
Nuwakot	25	Const.No. 2	13,125	28,422	0	0	0	0	0	0	0	41,547
Nuwakot	25	Const.No. 3	13,125	26,751	0	0	0	0	0	0	0	39,876
Okhaldhunga	13	Const.No. 1	0	45,000	2,731	0	0	0	0	0	0	47,731
Okhaldhunga	13	Const.No. 2	0	0	43,848	0	0	0	0	0	0	43,848
Palpa	43	Const.No. 1	0	0	0	0	37,124	0	0	0	0	37,124
Palpa	43	Const.No. 2	0	36,751	0	0	0	0	0	0	0	36,751
Palpa	43	Const.No. 3	0	38,382	0	0	0	0	0	0	0	38,382
Panchthar	2	Const.No. 1	0	0	41,093	0	0	0	0	0	0	41,093
Panchthar	2	Const.No. 2	0	0	39,009	0	0	0	0	0	0	39,009
Parbat	51	Const.No. 1	0	0	37,171	0	0	0	0	0	0	37,171

Expected Flow of Results in Alphabetical Order by Distrct and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Parbat	51	Const.No. 2	0	0	37,877	0	0	0	0	0	0	37,877
Parsa	34	Const.No. 1	13,125	36,773	0	0	0	0	0	0	0	49,898
Parsa	34	Const.No. 2	13,125	37,027	0	0	0	0	0	0	0	50,152
Parsa	34	Const.No. 3	13,125	37,556	0	0	0	0	0	0	0	50,681
Parsa	34	Const.No. 4	13,125	29,464	0	0	0	0	0	0	0	42,589
Pyuthan	54	Const.No. 1	13,125	20,106	0	0	0	0	0	0	0	33,231
Pyuthan	54	Const.No. 2	13,125	27,242	0	0	0	0	0	0	0	40,367
Ramechhap	18	Const.No. 1	13,125	28,304	0	0	0	0	0	0	0	41,429
Ramechhap	18	Const.No. 2	13,125	24,454	0	0	0	0	0	0	0	37,579
Rasuwa	23	Const.No. 1	13,125	5,884	0	0	0	0	0	0	0	19,009
Rauthat	32	Const.No. 1	13,125	30,870	0	0	0	0	0	0	0	43,995
Rauthat	32	Const.No. 2	13,125	40,837	0	0	0	0	0	0	0	53,962
Rauthat	32	Const.No. 3	13,125	39,750	0	0	0	0	0	0	0	52,875
Rauthat	32	Const.No. 4	13,125	40,405	0	0	0	0	0	0	0	53,530
Rolpa	53	Const.No. 1	13,125	5,751	0	0	0	0	0	0	0	18,876
Rolpa	53	Const.No. 2	13,125	6,482	0	0	0	0	0	0	0	19,607
Rukum	52	Const.No. 1	13,125	5,562	0	0	0	0	0	0	0	18,687

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Rukum	52	Const.No. 2	13,125	12,108	0	0	0	0	0	0	0	25,233
Rupandehi	46	Const.No. 1	0	37,661	0	0	0	0	0	0	0	37,661
Rupandehi	46	Const.No. 2	13,125	31,770	0	0	0	0	0	0	0	44,895
Rupandehi	46	Const.No. 3	0	0	45,000	6,741	0	0	0	0	0	51,741
Rupandehi	46	Const.No. 4	0	45,000	11,486	0	0	0	0	0	0	56,486
Rupandehi	46	Const.No. 5	0	40,764	0	0	0	0	0	0	0	40,764
Sallyan	55	Const.No. 1	13,125	7,404	0	0	0	0	0	0	0	20,529
Sallyan	55	Const.No. 2	13,125	18,948	0	0	0	0	0	0	0	32,073
Sankhuwa Sabha	5	Const.No. 1	0	0	0	0	34,595	0	0	0	0	34,595
Sankhuwa Sabha	5	Const.No. 2	0	0	33,398	0	0	0	0	0	0	33,398
Saptari	15	Const.No. 1	0	43,575	0	0	0	0	0	0	0	43,575
Saptari	15	Const.No. 2	0	0	41,965	0	0	0	0	0	0	41,965
Saptari	15	Const.No. 3	0	0	43,455	0	0	0	0	0	0	43,455
Saptari	15	Const.No. 4	0	0	45,000	904	0	0	0	0	0	45,904
Saptari	15	Const.No. 5	0	44,218	0	0	0	0	0	0	0	44,218
Sarlahi	22	Const.No. 1	0	45,000	4,479	0	0	0	0	0	0	49,479
Sarlahi	22	Const.No. 2	0	44,215	0	0	0	0	0	0	0	44,215
Sarlahi	22	Const.No. 3	0	0	0	43,641	0	0	0	0	0	43,641

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Sarlahi	22	Const.No. 4	0	0	45,000	4,393	0	0	0	0	0	49,393
Sarlahi	22	Const.No. 5	0	45,000	873	0	0	0	0	0	0	45,873
Sindhuli	19	Const.No. 1	0	0	30,469	0	0	0	0	0	0	30,469
Sindhuli	19	Const.No. 2	0	37,493	0	0	0	0	0	0	0	37,493
Sindhuli	19	Const.No. 3	0	0	31,619	0	0	0	0	0	0	31,619
Sindhupalchok	30	Const.No. 1	13,125	35,994	0	0	0	0	0	0	0	49,119
Sindhupalchok	30	Const.No. 2	13,125	30,710	0	0	0	0	0	0	0	43,835
Sindhupalchok	30	Const.No. 3	13,125	27,304	0	0	0	0	0	0	0	40,429
Siraha	16	Const.No. 1	0	44,189	0	0	0	0	0	0	0	44,189
Siraha	16	Const.No. 2	0	42,142	0	0	0	0	0	0	0	42,142
Siraha	16	Const.No. 3	0	42,813	0	0	0	0	0	0	0	42,813
Siraha	16	Const.No. 4	0	0	45,000	9,531	0	0	0	0	0	54,531
Siraha	16	Const.No. 5	0	0	0	0	0	0	0	0	43,661	43,661
Solukhumbu	11	Const.No. 1	0	0	0	0	0	0	34,150	0	0	34,150
Sunsari	10	Const.No. 1	0	13,125	27,945	0	0	0	0	0	0	41,070
Sunsari	10	Const.No. 2	0	45,000	2,095	0	0	0	0	0	0	47,095
Sunsari	10	Const.No. 3	0	42,963	0	0	0	0	0	0	0	42,963
Sunsari	10	Const.No. 4	0	44,809	0	0	0	0	0	0	0	44,809

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results
Sunsari	10	Const.No. 5	0	42,880	0	0	0	0	0	0	0	42,880
Surkhet	64	Const.No. 1	13,125	23,375	0	0	0	0	0	0	0	36,500
Surkhet	64	Const.No. 2	13,125	24,029	0	0	0	0	0	0	0	37,154
Surkhet	64	Const.No. 3	13,125	17,360	0	0	0	0	0	0	0	30,485
Syangja	41	Const.No. 1	13,125	38,781	0	0	0	0	0	0	0	51,906
Syangja	41	Const.No. 2	13,125	29,560	0	0	0	0	0	0	0	42,685
Syangja	41	Const.No. 3	13,125	33,246	0	0	0	0	0	0	0	46,371
Tanahu	40	Const.No. 1	13,125	30,737	0	0	0	0	0	0	0	43,862
Tanahu	40	Const.No. 2	13,125	30,173	0	0	0	0	0	0	0	43,298
Tanahu	40	Const.No. 3	13,125	29,165	0	0	0	0	0	0	0	42,290
Taplejung	1	Const.No. 1	0	30,996	0	0	0	0	0	0	0	30,996
Taplejung	1	Const.No. 2	0	0	27,736	0	0	0	0	0	0	27,736
Terathum	6	Const.No. 1	0	45,000	2,216	0	0	0	0	0	0	47,216
Udayapur	14	Const.No. 1	0	0	41,009	0	0	0	0	0	0	41,009
Udayapur	14	Const.No. 2	0	0	45,000	4,738	0	0	0	0	0	49,738

Expected Flow of Results in Alphabetical Order by District and Constituency

Name	District	Constituency	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Expected Results

	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24	After May 24	Voters Expected
Grand Tot.by Day	1,194,375	5,156,234	1,525,297	347,321	130,028	46,357	34,150	0	172,998	8,606,759
Percent by Day	13.88%	59.91%	17.72%	4.04%	1.51%	0.54%	0.40%	0.00%	2.01%	100.00%
Grand Tot. Acum.	1,194,375	6,350,609	7,875,906	8,223,227	8,353,255	8,399,612	8,433,762	8,433,762	8,606,759	8,606,759
Percent Acum.	13.88%	73.79%	91.51%	95.54%	97.05%	97.59%	97.99%	97.99%	100.00%	

ATTACHMENT 5

Declared Constituencies Results Chart

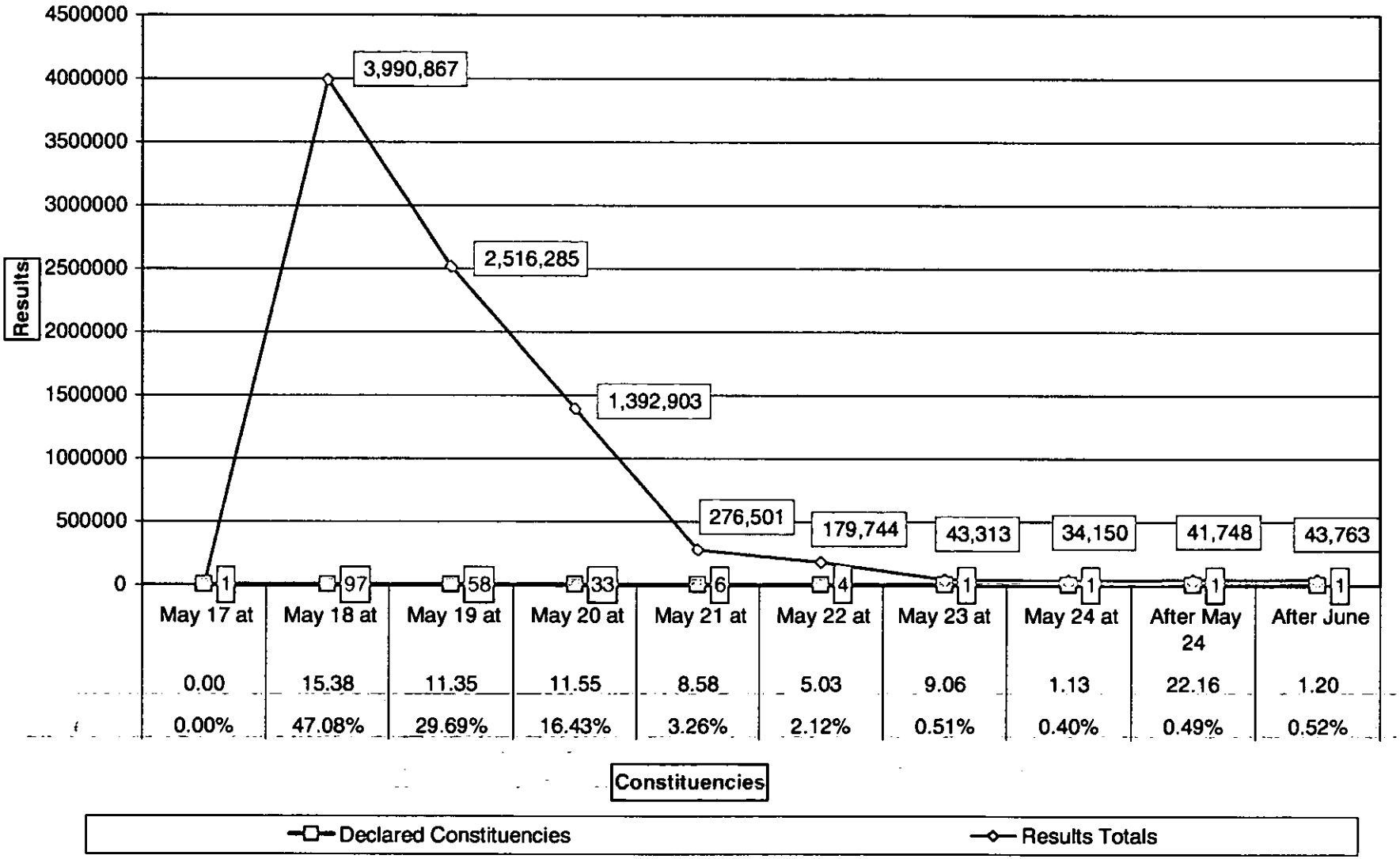
Declared Constituencies
Results by Time and Day

Day	Average Time of Arrival	Results Expected	Results Accumulated	Constituencies Declared	Constituencies Total	Percent Declared	Percent Total
0	0.00	0	0	1	1	0.49%	0.49%
18	15.38	3,990,867	3,990,867	97	98	47.32%	47.80%
19	11.35	2,516,285	6,507,152	58	156	28.29%	76.10%
20	11.55	1,392,903	7,900,055	33	189	16.10%	92.20%
21	8.58	276,501	8,176,556	6	195	2.93%	95.12%
22	5.03	179,744	8,356,299	4	199	1.95%	97.07%
23	9.06	43,313	8,399,612	1	200	0.49%	97.56%
24	1.13	34,150	8,433,762	1	201	0.49%	98.05%
40	22.16	41,748	8,475,509	1	202	0.49%	98.54%
41	1.20	43,763	8,519,273	1	203	0.49%	99.02%
56	14.17	43,661	8,562,933	1	204	0.49%	99.51%
59	9.22	43,826	8,606,759	1	205	0.49%	100.00%
Grand Total			**8,606,759**		**205**		

ATTACHMENT 6

Declared Constituencies Results Graph

Declared Constituencies

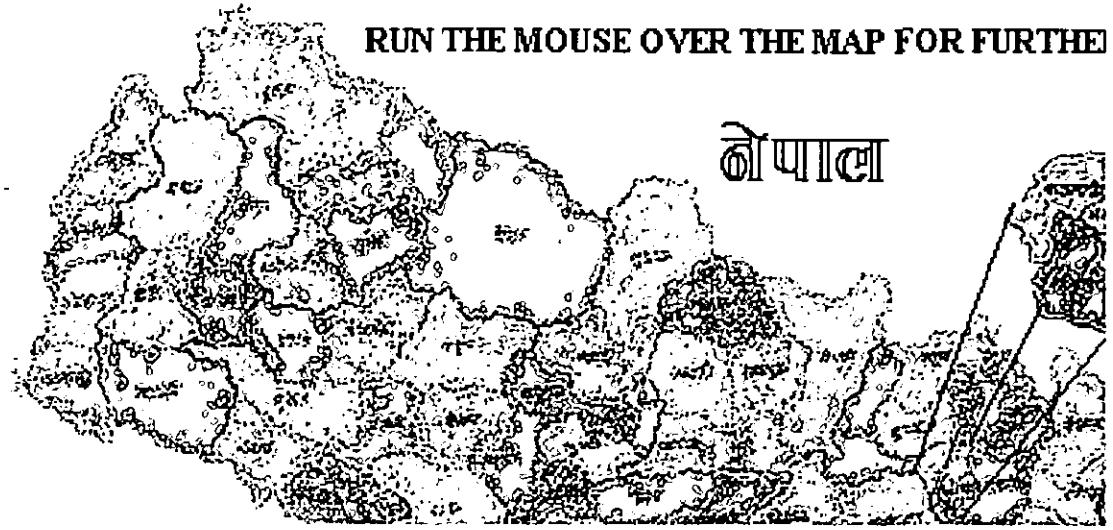


APPENDIX 7

Election Commission of Nepal Internet Site

ELECTION COMMISSION, NEPAL

House of Representatives Election 2056(1999)

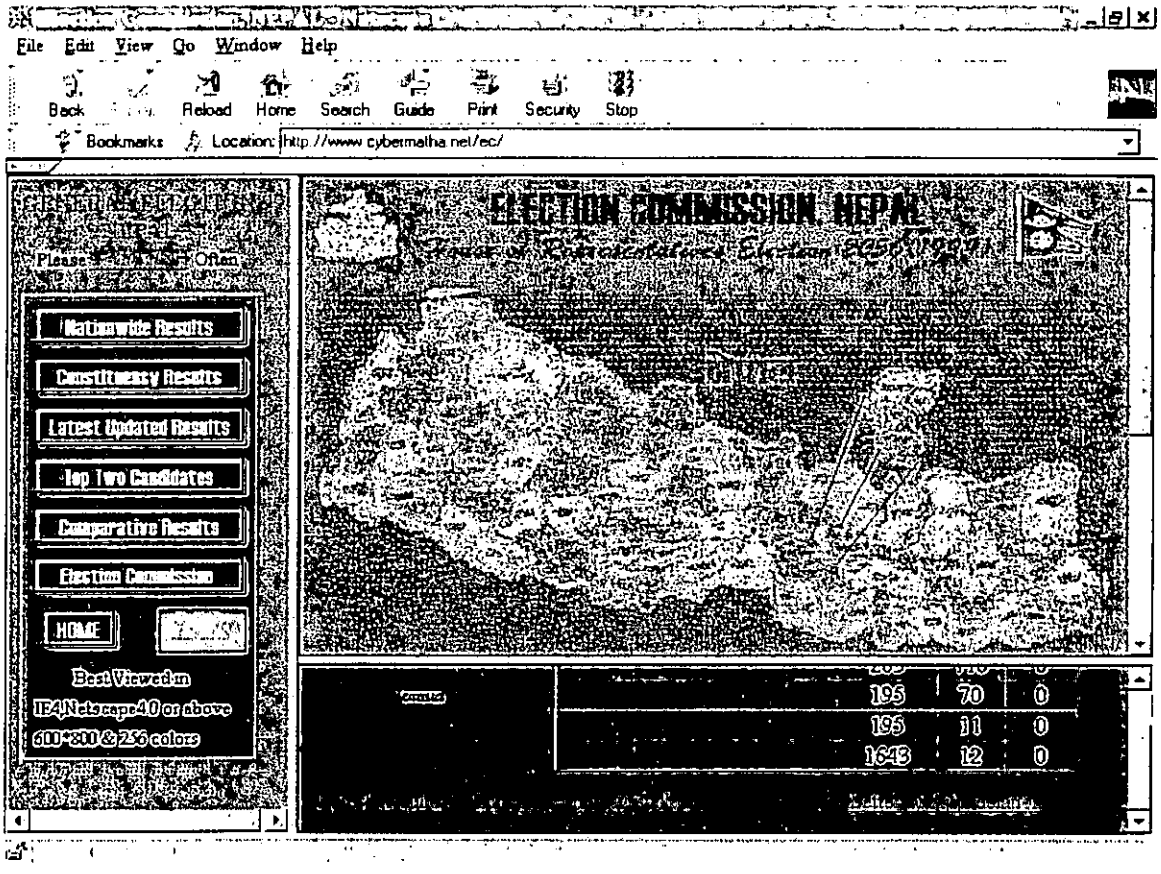


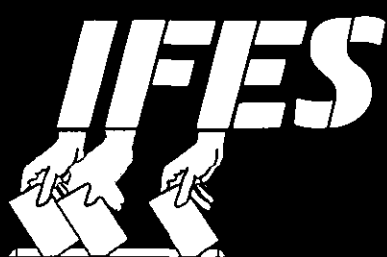
Information on Polling Status

Phase	Constituencies	Voting Places	Voters	Parties	Candidates
First	93	2995	5971095	39 + Independant	2237
Second	112	3826	7547744		
Total	205	6821	13518839	40	2237

System designed & developed by Professional Computer System (PCS)

email: pcs@ccsl.com.np


File Edit View Go Window Help
Back Reload Home Search Guide Print Security Stop
Bookmarks Location: http://www.cybermatha.net/ec/
Nationwide Results
Constituency Results
Latest Updated Results
Top Two Candidates
Comparative Results
Election Commission
HOME
Best Viewed in
IE4/Netscape4.0 or above
600*800 & 256 colors
195 70 0
195 11 0
1643 12 0



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