MANAGEMENT INFORMATION SYSTEM

(MIS)

of

Nepal Telecommunications Authority
(NTA)

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Background Information on the Nepal Telecommunications Sector

1. **Information**

   1.1 Nepal is a landlocked country situated in southern Asia, between China and India. The Nepalese territory of 147,181 square kilometres comprises three main geographical regions: the Terai (flat river plain of the Ganges) in the south, the central Hill region and the rugged Mountain (Himalayas) region in the north. The latter includes Mount Everest and seven other of the world's ten highest peaks.

   1.2 Nepal is a multi-party parliamentary democracy within the framework of a constitutional monarchy, where the Head of Government is the Prime Minister. Administratively, Nepal is divided into five Development Regions: Eastern, Central, Western, Mid-Western and Far Western. These Regions are further divided into 75 Districts. There are 16 Districts in the Eastern Development Region. The Village Development Committee (VDC) is the administrative unit below the District. There are 3914 VDCs in all of Nepal and 893 in the Eastern Development Region. The lowest administrative unit in Nepal is the ward. There are on average nine wards per VDC in Nepal.

   1.3 The population of Nepal is approximately 23.2 million. The annual population growth rate during the 1990's was 2.4%. About 88% of the population live in rural areas. The population of Kathmandu, Nepal's largest city, is just over one million.

   1.4 The current GDP per capita of Nepal is about US$250; thus, Nepal is considered a Low-Income country by the World Bank. Approximately 42% of the population lives below the national poverty line. Following economic reforms initiated at the beginning of 1990's, Nepal achieved an annual GDP per capita growth rate of 2.4% during that decade.

   1.5 In terms of GDP, the sectoral structure of the Nepalese economy in 2000 was 39% agriculture, 22% industry and 39% services. The annual growth rates over the 1990s for these three sectors were 2.5%, 7.2% and 7.1% respectively. Consumer prices (CPI) increased 3.3% in 2000. Government current revenue in 2000 accounted for 12.2% of GDP, and the Government had a current budget surplus of 0.3% of GDP in that year.

   1.6 The *Telecommunications Act, 2053 (1997)* became effective on January 1, 1997. The Act established a modern framework for the regulation of the telecommunications sector in Nepal. The Act also established the NTA as the regulatory and licensing authority for the Nepalese telecommunications sector. Chapter 5 of the Act sets out the legal framework for the issuance of licences to provide telecommunications services in Nepal.

1.7   The *Telecommunications Policy, 2056 (1999)* (the "Policy") sets out the HMG policy for the sector. With respect to rural telecommunications services, the Policy provides that there shall be at least two telephones in each VDC in the country. In September 2003, out of a total of 3,914 VDCs in the country, 2,153 VDCs (56%) were still without any form of telecommunications service.

NTC has achieved the following rural service penetration levels as of July 2003. Percentages identified in the table refer to the percentage of VDCs with at least one PCO in the specified region.

Region	Total VDCs	VDCs Served with at least one PCO	% of VDCs Served with at least one PCO
Nepal	3914	1761	45%
Kathmandu Valley*	114	101	89%
Eastern Development Region	893	409	40%
Central Development Region	1199	547	46%
Western Development Region	864	417	48%
Mid-Western Development Region	575	207	36%
Far-Western Development Region	383	181	47%

Included under Central Development Region

2.   **Rural Telecommunications Service Policy**

2.1   NTC is licensed to provide rural telecommunications services in the entire country. The current policy of HMG provides that rural telecommunications services will continue to be provided by NTC in the VDCs where it currently provides such services. NTC is also expected to continue to roll-out rural telecommunications services in remote northern areas as well as in the Central and Western Development Regions of Nepal. NTC is in the process of procuring equipment to provide services in those areas.

2.2   Pursuant to subsection 22(2) of the Act, the NTA has not and will not authorise NTC or grant a new licence to any other operator, to provide RTS Service in the VDCs for a period of 5 (five) years after the Licence is issued. However, if the Licensee fails to fulfil the roll-out requirements the NTA may, at any time, authorise NTC to provide RTS Services in any of the VDCs in eastern development region of Nepal,

According to Telecommunication act, 2053 (1997) A Nepal Telecommunication Authority was established in March1998 with a view to managing, regularising the telecommunication services and making reliable and easily available to the public.

3. Functions and Duties of NTA

(a) To provide suggestions to His Majesty's Government on the policy, plan and programme to be adopted by His Majesty's Government for the development of the Telecommunications Service.

(b) To make the Telecommunications Service reliable and easily available to the public.

(c) To make necessary arrangement to avail basic Telecommunications Service and facilities in all rural and urban areas throughout the kingdom of Nepal.

(d) To involve the national and foreign private sector investors in the operation of the Telecommunications Service.

(e) To make arrangement for the co-ordination and healthy competition among the persons providing Telecommunications Service and facilities, so as to provide such service and facilities to all public in general.

(f) To prescribe, fix and approve the standard and quality standard of the plant and equipment relating to the Telecommunications and the Telecommunications Service.

(g) To regularise and systematize Telecommunications Service

(h) To grant License to operate the Telecommunications service in private sector.

(i) To approve and regularise the fees to be collected by a person having obtained License for providing the Telecommunications Service.

(j) To perform the functions relating to the frequency in accordance with the policy determined by the Radio Frequency Policy Determination Committee.

(k) To carry out or cause to carry out the research about the development and use of new technology in the field of Telecommunications.

(l) To cause to develop the skilled manpower for the Telecommunications Sector.

(m) To develop and extend or cause to develop and extended the Telecommunications Service in such a way that it protects the rights and interests of the consumers.

(n) To develop or cause to develops Nepal as an International Transit for Telecommunications.

(o) To carry out necessary and appropriate functions for the development and promotion of the Telecommunications Service.

4. Relevant Acts and Regulations

1. Telecommunications Act, 1997 (2053)
2. Radio Act, 1958 (2014)
3. Telecommunications Regulations, 1998 (2054)
4. Radio License Regulation, 1992 (2049)
5. Telecommunications Policy, 1999 (2056)
6. Interconnection Guideline, 2002 (2059)

5. **Name of the Chairman and Board Members of NTA**
Mr. Suresh Kumar Pudasaini   Chairman
Mr. Mani Ram Ojha   Board Member
Mr. Abhinas Pantha   Board Member
Dr. Krishna Bahadur Khatri   Board Member

6. **No. of Licenses issued in the different types of Telecommunications Services   (as of 17th October, 2003)**
(a)   Basic Telephone   2
(b)   Cellular Mobile Telephone   1
(c)   Internet (with e-mail)   22
(d)   Radio Paging   8
(e)   VSAT Network Providers   10
(f)   VSAT Service Users   52
(g)   Fax Mail   6
(h)   Video Conferencing   1
(i)   GMPCS   2
(j) Rural Telecommunication service   1

7. **A Glimpse of Licensing Activities (as of 14th January 2004)**

S. No.	Services	Fiscal Year						
		055/56	056/57	057/58	058/59	059/60	060/61	Total
1.	Basic Telephone			1		1		2
2.	Cellular Mobile	1						1
3.	Internet (with e-mail)	9	4	2	3	2	2	22
4.	Radio Paging	1	5	2				8
5.	VSAT Network Providers	2	4	1	3			10
6.	VSAT Service Users	1	15	8	11	15	2	52
7.	Fax Mail	3	2	1				6
8.	Video Conferencing		1					1
9.	GMPCS					2		2
	Total	**17**	**31**	**15**	**17**	**20**	**4**	**104**

8. Total Subscribers of different services (as of 14th January, 2004)

NTC fixed line telephone subscribers		**3,79,235**
NTC mobile subscribers (post paid)		**57,051**
NTC Mobile subscribers(pre-paid)		**31,500**
Internet/e -mail subscribers		**30,000**
Internet users	**(30,000×5)**	**1,50,000**
WLL Subscribers		**5,257**
GMPCS Subscribers		**213**

Radio Paging Subscribers   **12,650**

9.   Licenses distributed for operation of services in various regions of the country (as of 17th October 2003)

S. No.	Services	Nation Wise	Kathmandu Valley	Eastern and Central Development Region, without Kathmandu Valley	Western Development Region	Mid-western Development Region and Far-western Development Region
1.	Basic Telephone	1				
2.	Based on WLL	1				
3.	Mobile Telephone	1				
4.	Internet (with e-mail)	20				
5.	Radio Paging	2	2	1	2	
6.	VSAT Network Provider	10				
7.	Fax Mail	6				
8.	Video Conferencing	1				
9.	GMPCS	2				

10.   Addresses and Contact nos. of Service Providers

   (i)   Basic Telephone Operators
   (a)   Nepal Telecommunications Corporation
            Bhadrakali Plaza, Kathmandu
            Tel No. 977-1-4210202
            Fax No. 977-1-4221202
            E-mail :- ntcogm@ntc.net.np
   (b)   United Telecom Limited
            Putalisadak, Kathmandu
            Tel No. 977-1-44219497
            Fax No. 977-1-44219498
            E-mail :- utlnepal@wlink.com.np

   (ii)   GSM Cellular Mobile Operators
   (a)   Nepal Telecommunications Corporation
            Pulchowk, Lalitpur
            Tel No. 977-1-5536791
            Fax No. 977-1-5525291
            E-mail :- ntcogm@ntc.net.np

(iii) VSAT Network Providers
   (a)   Mercantile Office System Pvt. Ltd.
         Durbar Marg, Kathmandu
         Tel No. 977-1-4220773
         Fax No. 977-1-4225407
         E-mail : market@mos.com.np

   (b)   Worldlink Communications Pvt. Ltd.
         Jawalakhel, Lalitpur
         Tel No. 977-1-5523050
         Fax No. 9771-5526318
         E-mail : info@wlink.com.np
   (c)   Communications and Communicate Nepal Pvt. Ltd.
         Jyoti Bhawan, Kathmandu
         Tel No. 977-1-4243706
         Fax No. 977-1-4243726
         E-mail : info@ccnep.com.np
   (d)   Global Internet Services Pvt. Ltd.
         New Baneshwor, Kathmandu
         Tel No. 977-1-4480931
         Fax No. 977-1-4480931
         E-mail : kpp@wlink.com.np
   (e)   Nepal Gateway Communications Pvt. Ltd.
         Hattisar, Kathmandu
         Tel No. 977-1-4434961
         Fax No. 977-1-4434659
         E-mail : highmtn@wlink.com.np
   (f)   Infocom Pvt. Ltd.
         Hattisar Kathmandu
         Tel No. 977-1-4436458/4436459
         Fax No. 977-1-4435605
         E-mail : info@info.com.np
   (g)   Namche Networks Pvt Ltd
         Kupondole Lalitpur
         Tel No. 977-1-5524600
         Fax No. 977-1-5524439
         E-mail :- pawan@namche.com
   (h)   Web Surfer Nepal Communications Pvt Ltd
         New Baneswor kathmandu
         Tel No. 977-1-4481230
         Fax No. 977-1-4492703
         E-mail :- suman@ccsl.com.np
   (i)   Square Networks Pvt. Ltd
         Sanepa, Lalitpur
         Tel No. 977-1-5523619
         Fax No. 977-1-5523619
         E-mail :- smanandhar@snet.com.np
   (j)   Unlimited Nu Media Pvt.Ltd.
         Khichapokari, Kathmandu
         Tel No. 977-1-4251070
         Fax No. 977-1-4221502
         E-mail :- allen@unlimit.com

(iv) Radio Paging Service Providers

    (a)   Nepal Radio Paging Pvt. Ltd.
           Bhatbhatini, Kathmandu
           Tel No. 977-1-4439333
           Fax No. 977-1-4495338
           E-mail : nrppl@unlimit.com

    (b)   City Paging Pvt. Ltd.
           Kalikasthan, Kathmandu
           Tel No. 977-1-4425188/4420636
           Fax No. 977-1-4419452
           E-mail : moonlight@wlink.com.np

    (c)   KAT Easy Page Pvt. Ltd.
           Pako New Road, Kathmandu
           Tel No. 977-1-4224130
           Fax No. 977-1-4241976
           E-mail : easypage@mos.com.np

    (d)   Agni Paging Pvt. Ltd.
           Lazimpat, Kathmandu
           Tel No. 977-1-4410373/4414628/4414629
           Fax No. 977-1-4416778
           E-mail : agniinc@mos.com.np

    (e)   Digital Telecom International Pvt. Ltd.(Nation Wide)
           Tripureshwor, Kathmandu
           Tel No. 9771-4-268007
           Fax No. 977-1-4-268003
           E-mail :- info@dti.com.np

(v) Internet /E-mail Service Providers

    (a)   Mercantile Communications Pvt. Ltd.
           Durbar Marg, Kathmandu
           Tel No. 977-1-4220773
           Fax No. 977-1-4225407
           E-mail : postmaster@mos.com.np

    (b)   Computerland Communications System Ltd.
           Ram Shah Path, Kathmandu
           Tel No. 977-1-4223226/4240005
           Fax No. 977-1-4225603
           E-mail : ccsl@ccsl.com.np

    (c)   Worldlink Communications Pvt. Ltd.
           Jawalakhel, Lalitpur
           Tel No. 977-1-5523050
           Fax No. 977-1-5526318
           E-mail : info@wlink.com.np

    (d)   Capital Online Pvt. Ltd.
           Kathmandu Plaza, Kathmandu
           Tel No. 977-1-4244554
           Fax No. 977-1-4240465
           E-mail : info@col.com.np

    (e)   HTP Communications Pvt. Ltd.
           Kalikasthan, Kathmandu
           Tel No. 977-1-4418472
           Fax No. 977-1-4413284

E-mail : info@htp.com.np

(f)   Everest Net Pvt. Ltd.
Jawalakhel, Lalitpur
Tel No. 977-1-5521506/5530313
Fax No. 977-1-5538473
E-mail : info@enet.com.np

(g)   Global Internet Service Pvt. Ltd.
Bakhundol, Lalitpur
Tel No. 977-1-5544277
Fax No. 977-1-5544386
E-mail : kpp@wlink.com.np

(h)   Himalayan Online Pvt. Ltd.
Bagbazar, Kathmandu
Tel No. 977-1-4411956
Fax No. 977-1-4415679
E-mail : info@hons.com.np

(i)   INFOCOM Nepal Pvt. Ltd.
Hattisar, Kathmandu
Tel No. 977-1-4436458/4436459
Fax No. 977-1-4435605
E-mail : info@info.com.np

(j)   Network Technologies Pvt. Ltd.
Kamaladi, Kathmandu
Tel No. 977-1-4410147
Fax No. 977-1-4416835
E-mail : ntech@nepalinformation.com

(k)   Nepal Telecommunications Corporation
Pulchowk, Lalitpur
Tel No. 977-1-5536791
Fax No. 977-1-5525291
E-mail : ntcogm@ntc.net.np

(l)   Bajranet Pvt. Ltd.
Panipokhari, Kathmandu
Tel No. 977-1-4441362
Fax No. 977-1-4423674
E-mail : bajranet@parichaya.com

(m)   Square Network Pvt. Ltd
Jhamsikhel Lalitpur
Tel No. 977-1-5523619
E-mail : snet@squarenet.com.np

(n)   Via Net Communications Pvt Ltd
Kantipath Kathmandu
Tel No. 977-1-4268071
Fax 977-1-4268072
E-mail: info@vianet.com.np

(o)   Sailung Dot Com Pvt. Ltd.
Bhanuchowk Dharan Sunsari
Tel No. 977-25-26528
Fax No. 977-25-26528
E-mail :- amrit@sailung.com.np

(p)   Fewa Net Pvt. Ltd
Mahendrapool, Pokhara
Tel No. 977-61-531548

Fax No. 977-61-531548
E-mail: gajendra@fewanet.com.np

(q)   Cyber Space Pvt. Ltd
       Adrashanagar, Birgunj
       Tel No. 977-51-524075
       Fax No. 977-51-524075
       E-mail: atc@atcnet.com.np

(r)   Netlink Communications Pvt. Ltd
       Baneshwor, Kathmandu
       Tel No. 977-1-4440093
       Fax No. 977-1-4492703
       E-mail: info@netlink.com.np

(s)   Global Net Pvt. Ltd
       Bharatpur, Chitwan
       Tel No. 977-56-520656
       Fax No. 977-56-520656
       E-mail: support@bharatpur.com.np

(t)   Himal Technologies Pvt. Ltd
       Jayabageshwari, Kthmandu
       Tel No. 977-1-4480698
       Fax No. 977-1-4759964
       E-mail:info@himaltech.com

(vi) Fax Mail Service Providers

(a)   Mercantile Communications Pvt. Ltd.
       Durbar Marg, Kathmandu
       Tel No. 977-1-4220773
       Fax No. 977-1-4225407
       E-mail : postmaster@mos.com.np

(b)   Computerland Communications System Ltd.
       Ram Shah Path, Kathmandu
       Tel No. 977-1-4223226/4240005
       Fax No. 977-1-4225603
       E-mail : ccsl@ccsl.com.np

(c)   Worldlink Communications Pvt. Ltd.
       Jawalakhel, Lalitpur
       Tel No. 977-1-5523050
       Fax No. 977-1-5526318
       E-mail : info@wlink.com.np

(d)   INFOCOM Nepal Pvt. Ltd.
       Hattisar, Kathmandu
       Tel No. 977-1-4436458/4436459
       Fax No. 977-1-4435605
       E-mail : info@info.com.np

(e)   Himalayan Online Pvt. Ltd.
       Bagbazar, Kathmandu
       Tel No. 977-1-4411956
       Fax No. 977-1-4415679
       E-mail : info@hons.com.np

(f)   Unlimited Numedia Pvt. Ltd.
       Khichhapokhari, Kathmandu
       Tel No. 977-1-4249668/4249151
       Fax No. 977-1-4249151/4222424
       E-mail : allen@unlimit.com

(vii) GMPCS Service Providers

    (a)   Constellation Pvt. Ltd.
            Pulchowk, Lalitpur
            Tel No. 977-1-5548836
            Fax No. 977-1-5548879
            E-mail : ceo@constellation.com.np

    (b)   AVCO International Pvt. Ltd.
            Nagpokhari, Kathmandu
            Tel No. 977-1-4410394
            Fax No. 977-1-4422252
            E-mail : avco@wlink.com.np

11. **Terminology of the Services**

(i) *VSAT Services* : It is a satellite communications system serving mainly business users and educational institutes. A VSAT user has a special satellite network interface unit that supports a wide variety of interfaces for a user's network equipment. It allows businesses to operate or lease private satellite networks. VSAT permits companies to have total control of their own communications network without depending upon any telephone companies. Business and home users have high-speed data reception as compared to ordinary telephone service or even ISDN service,

(ii) *Paging Services* : Paging delivers text or voice messages to a specific person in a general geographic area. The person's exact location in that area is not precisely known. Paging subscribers carry a small receiver that receives phone number text, short message text or a voice-only, or two-way, permitting confirmation that the message was received.

(iii) *Cellular Mobile Service* : Cellular telephone uses microwave analog or digital signals to connect subscriber wireless mobile telephones to transmitter stations within miles of the wirseless mobile phone. Each transmitter station's are a of coverage is a single cell. Cellular telephone service is readily available in most all urban areas and along virtually all major highways. When mobile cellular telephone users move from an area covered by one cell to an area covered by another cell, the wireless mobile telephone connection pass from one local transmitter station to the other local transmitter station.
Mobility increases productivity in many cases, so making workforces increasingly mobile is good business. New mobile communications systems like cellular telephones are contributors to the rapid growth in telecommunications services.

(iv) *Video Teleconferencing or Video Conferencing* : A video teleconference, or a video conference, connects people in separate location, using video, voice and data communications. The simplest video teleconference transmit static images and text between facilities. The most sophisticated video teleconferences transmit full motion video, high-quality audio, images and data between multiple facilities.

(v) *Internet* : The internet, sometimes called simply 'the net', is a world-wide system of computer networks. It is a network of networks in which users at any one computer can, if they've the permission, get information form any other computer. Today, the internet is a public, co-operative and self sustaining facility accessible to hundreds of millions of people world wide.

(vi) *E-mail* : Electronic mail (E-mail) is the most widely used application of the net. It is the form of sending message from one user to another via electronic media.

(vii) *Global Mobile Personal Communications System (GMPCS)* : Global mobile personal communications via satellite (GMPCS) is the system in which all mobile satellite system (MSS) operators. In the satellite system, GMPCS is the satellite equivalent of GSM (Global System for Mobile), the widely adopted mobile telephone standard and it works on the wide range.

12. Useful Information

License Fee and Renewal Fee for different Value Added Services for a period of 5 years

S. No.	Services	License Fee Rs.	Renewal Fee Rs.
1.	Internet (with e-mail	300,000.00	270,000.00
2.	E-mail	200,000.00	180,000.00
3.	Audio Text/Voice Mail	200,000.00	180,000.00
4.	Video Text	200,000.00	180,000.00
5.	Fax Mail	200,000.00	180,000.00
6.	VSAT Network Providers	2,500,000.00	2,250,000.00
7.	VSAT Service Users	250,000.00	225,000.00
8.	Audio Conferencing	50,000.00	45,000.00
9.	Pay Phone	3,000,000.00	2,700,000.00
10.	Prepaid Calling Card	3,000,000.00	2,700,000.00
11.	Local Data Network (Business Use)	2,500,000.00	2,250,000.00
12.	Radio Paging (Country Wise)	5,000,000.00	4,500,000.00
13.	Radio Paging (Eastern and Central Development Region, without Kathmandu Valley)	2,000,000.00	1,800,000.00
14.	Radio Paging (Kathmandu Valley)	2,000,000.00	1,800,000.00
15.	Radio Paging (Western Development Region)	1,200,000.00	1,000,000.00
16.	Radio Paging (Mid-western Development Region and Far-western Development Region)	800,000.00	720,000.00
17.	Trunk Mobile Radio in Kathmandu Valley	500,000.00	450,000.00
18.	Trunk Mobile Radio (Pokhara, Biratnagar, Birgunj, Bhairahawa, Bharatpur or Nepalgunj Municipality)	250,000.00	225,000.00
19.	Trunk Mobile (Rest of the Places)	125,000.00	112,500.00
20.	Video Conferencing	150,000.00	135,000.00
21.	GMPCS	1,500,000.00	1,400,000.00

20th October, 2003

The Chairman,
Nepal Telecommunications Authority
Singh Durbar, Kathmandu.

Subject :- Submission of MIS Report.

Dear Sir,
The first Management Information System (MIS) report of Nepal Telecommunications Authority as of B.S. 2060 Kartik (October 18, 2003) is submitted for your kind information. We welcome directions, suggestions and comments if any.

With best regards.

Yours Sincerely,

_____
B. P. Parajuli,
Assistant Manager

C. C.: -
1. Secretary, Ministry of Information and Communications
2. Board Member, NTA, Mr. Mani Ram Ojha
3. Board Member, NTA, Mr. Abhinas Pantha
4. Board Member, NTA, Mr. Krishna Bahadur Khatri
5. The World Bank, Country Office
6. Advisor NTA, S. P. Sen
7. Administration and Finance Section, NTA
8. Engineering Section, NTA
9. License and RTD Section, NTA
10. Legal Section, NTA
11. Consumer Section, NTA
12. General Manager – Nepal Telecommunications Corporation
13. Director – New Services Directorate, NTC
14. General Manager- United Telecom Limited
15. Chief Executive Officer- Constellation Pvt. Ltd.
16. General Manager- AVCO International Pvt. Ltd.
17. Chief Executive Officer - Mercantile Communications Pvt. Ltd.
18. General Manager- Communications and Communicate Pvt. Ltd.
19. General Manager- World Link Communications Pvt. Ltd.
20. General Manager- Infocom Pvt. Ltd.
21. General Manager- Namche Network Pvt. Ltd.
22. General Manager- Websurfer Nepal Communications Pvt. Ltd.

23. General Manager- Square Network Pvt. Ltd.
24. General Manager- Nepal Radio Paging
25. General Manager- Agni Paging
26. General Manager- DTI Paging
27. General Manager- City Paging
28. General Manager- KAT Easy Paging
29. Chairman-ISPAN
30. General Manager-Everest Net Pvt. Ltd.
31. General Manager-Global Internet Services Pvt. Ltd.
32. General Manager-Computerland Communications Pvt. Ltd.
33. General Manager-Himalayan Online Pvt. Ltd.
34. General Manager-Vianet Pvt. Ltd.

If you want to know more please contact at the following address

Nepal Telecommunications Authority
Consumer Section
Phone : +977-1-4258390
Fax : +977-1-4260400
E-mail : ntra@wlink.com.np