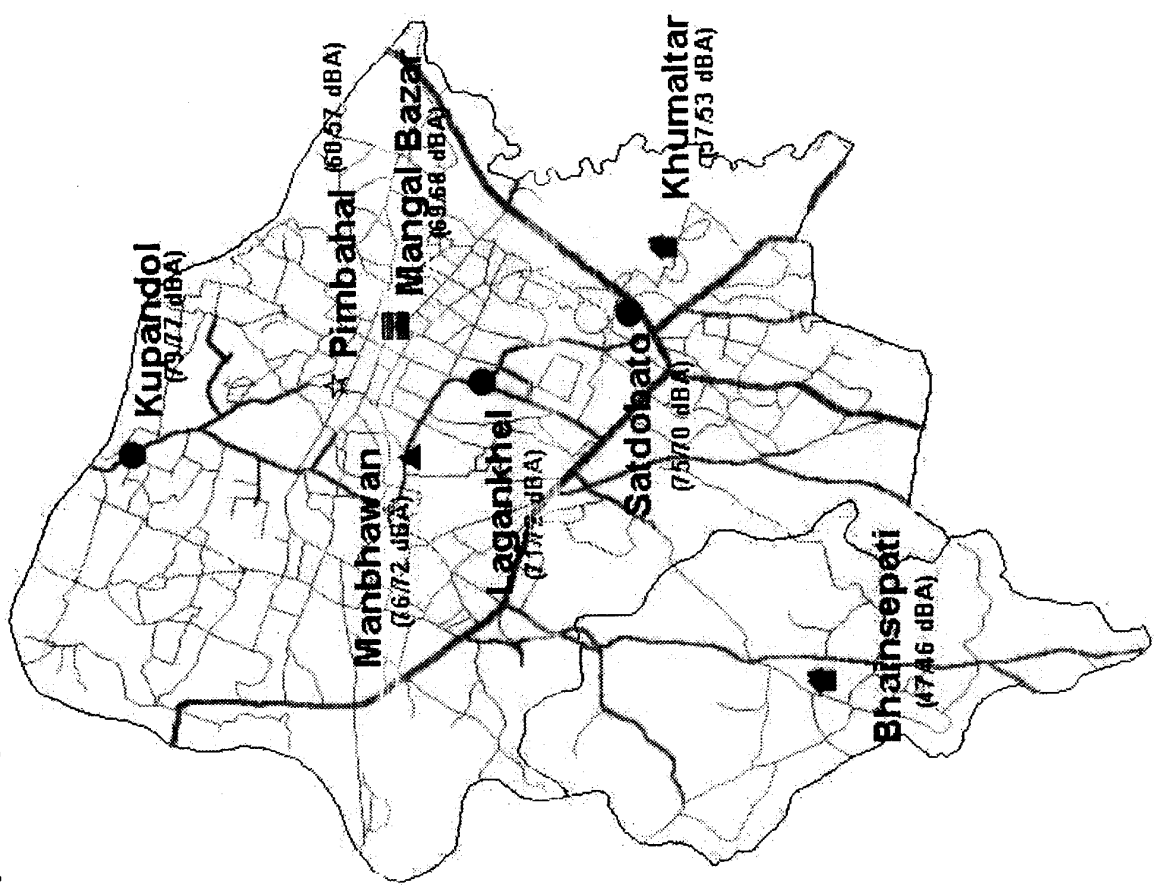


Map 09: Leq (dBA) of Lalitpur City during Office and Non Office Hour



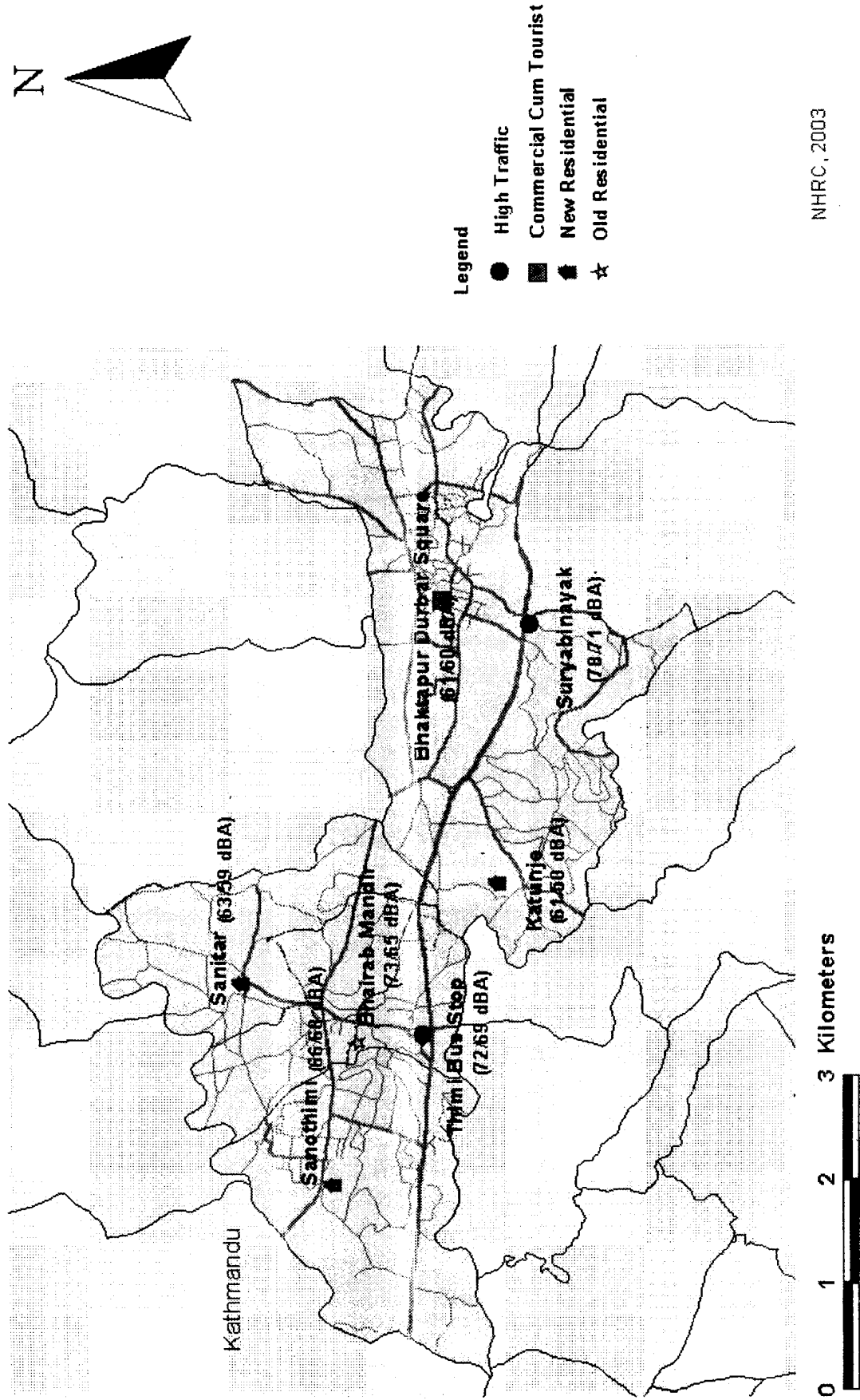
Legend

- High Traffic
- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- ◆ New Residential

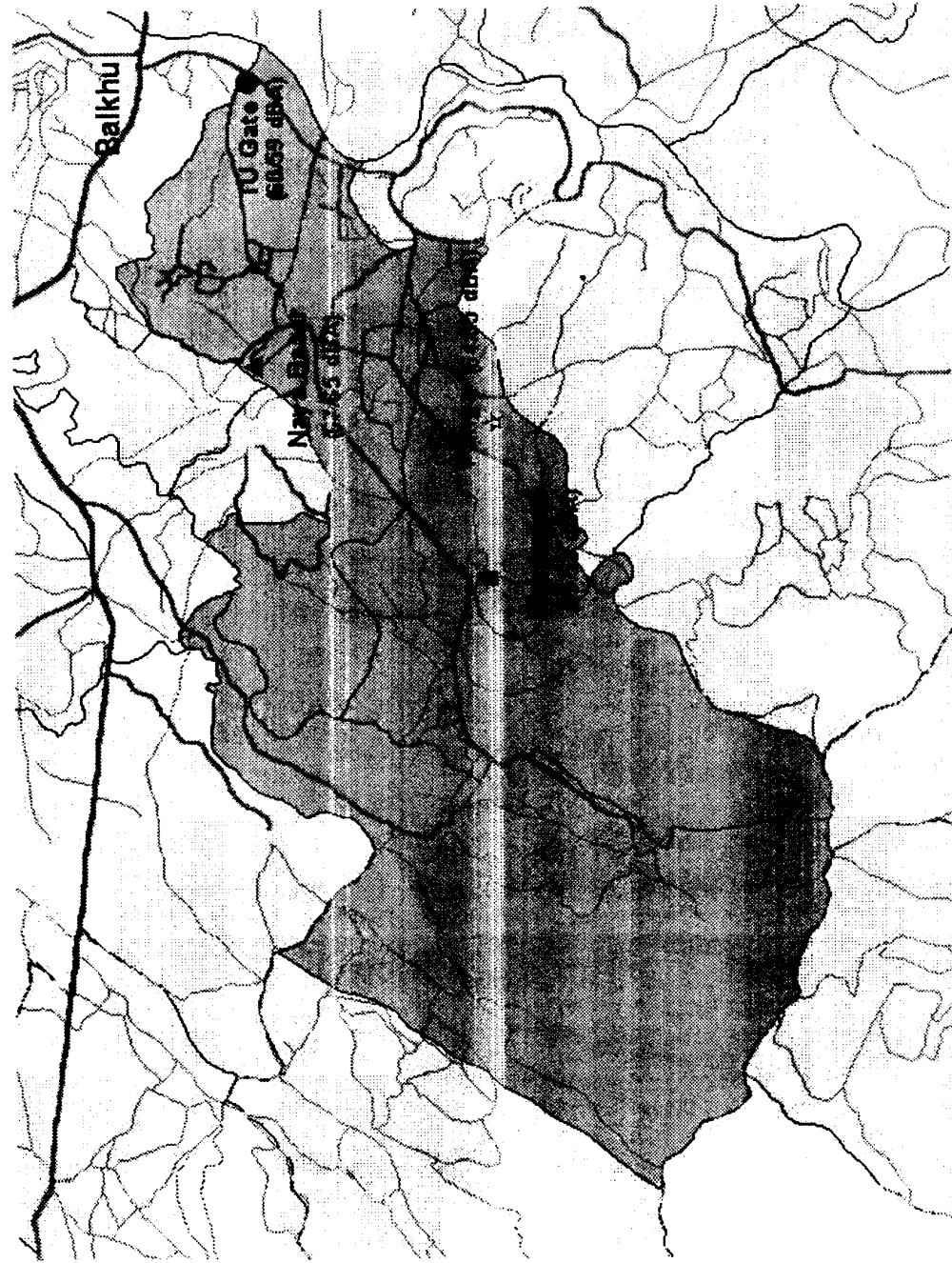


NHRC, 2003

Map 10: Leq (dBA) of Bhaktapur City during Office and Non Office Hour



**Map 11:
Leq (dBA) of Kirtipur City during Office and Non Office Hour**



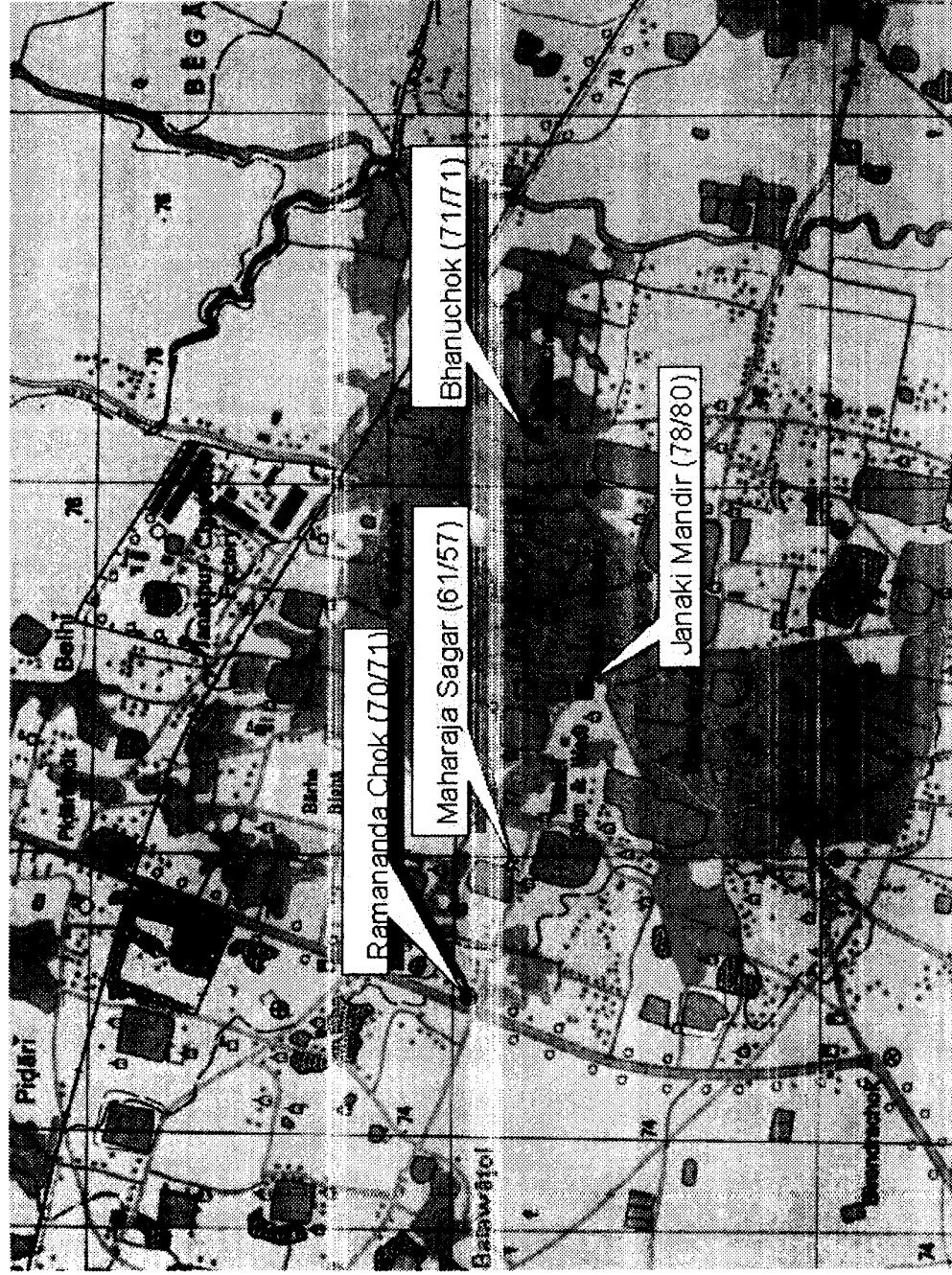
Legend

- New Residential
- ▲ Commercial Cum Residential
- ☆ Old Residential
- High Traffic

NHRC, 2003

0 1 2 3 Kilometers

Map 12: Leq (dBA) of Janakpur City during Office and Non Office Hour

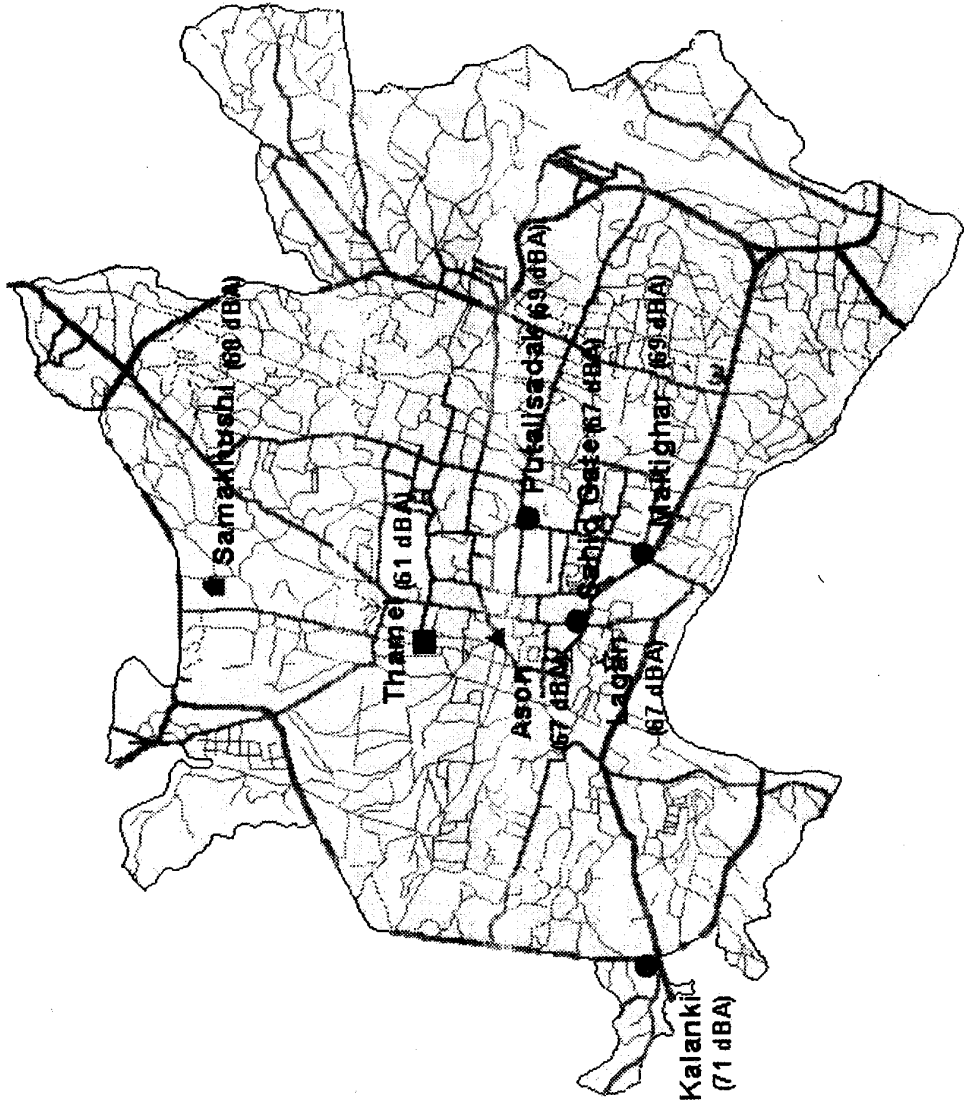


Legend

- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- Heavy Traffic

NHRC, 2003

Map 13: Leq (dBA) of Kathmandu City during Night Hour



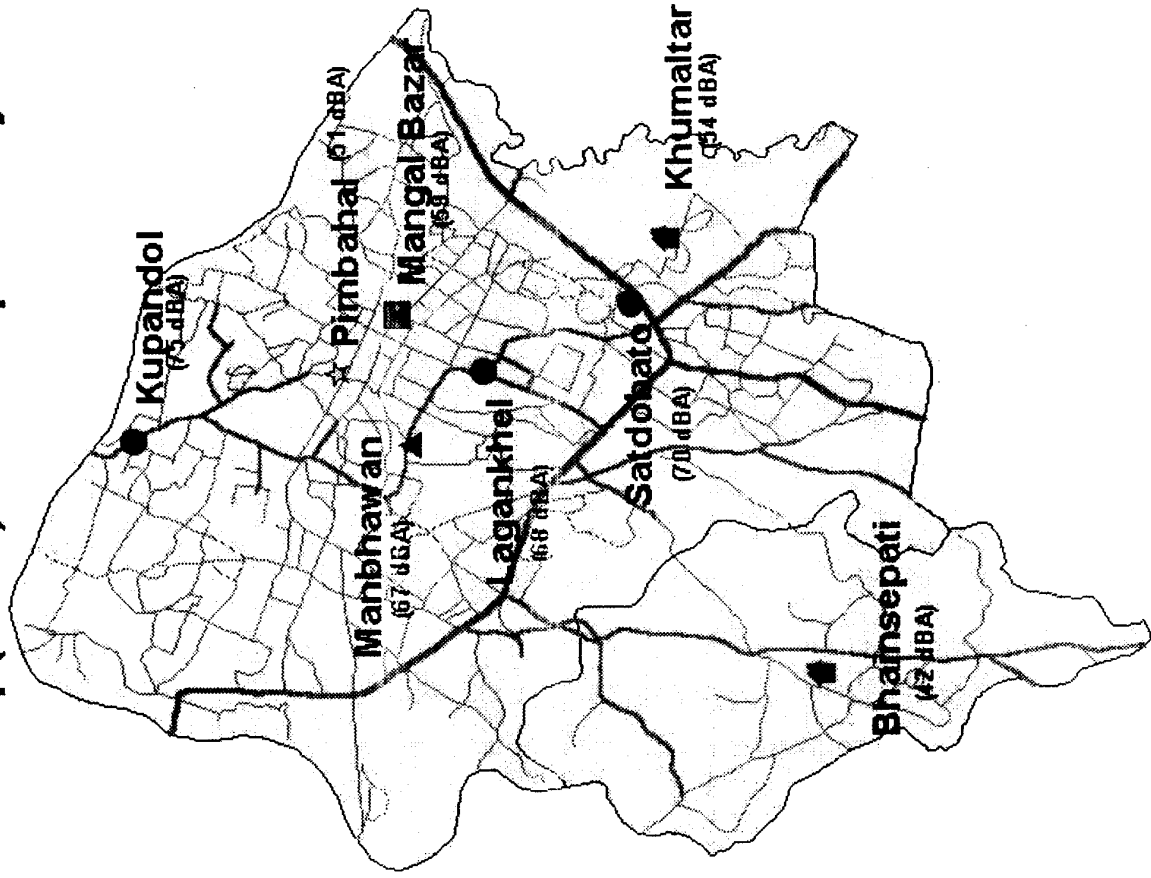
Legend

- High Traffic
- ▲ Commercial Cum Residential
- ☆ Old Residential
- ▤ New Residential
- Commercial Cum Tourist



NHRC, 2003

Map 14: Leq (dBA) of Lalitpur City during Night Hour



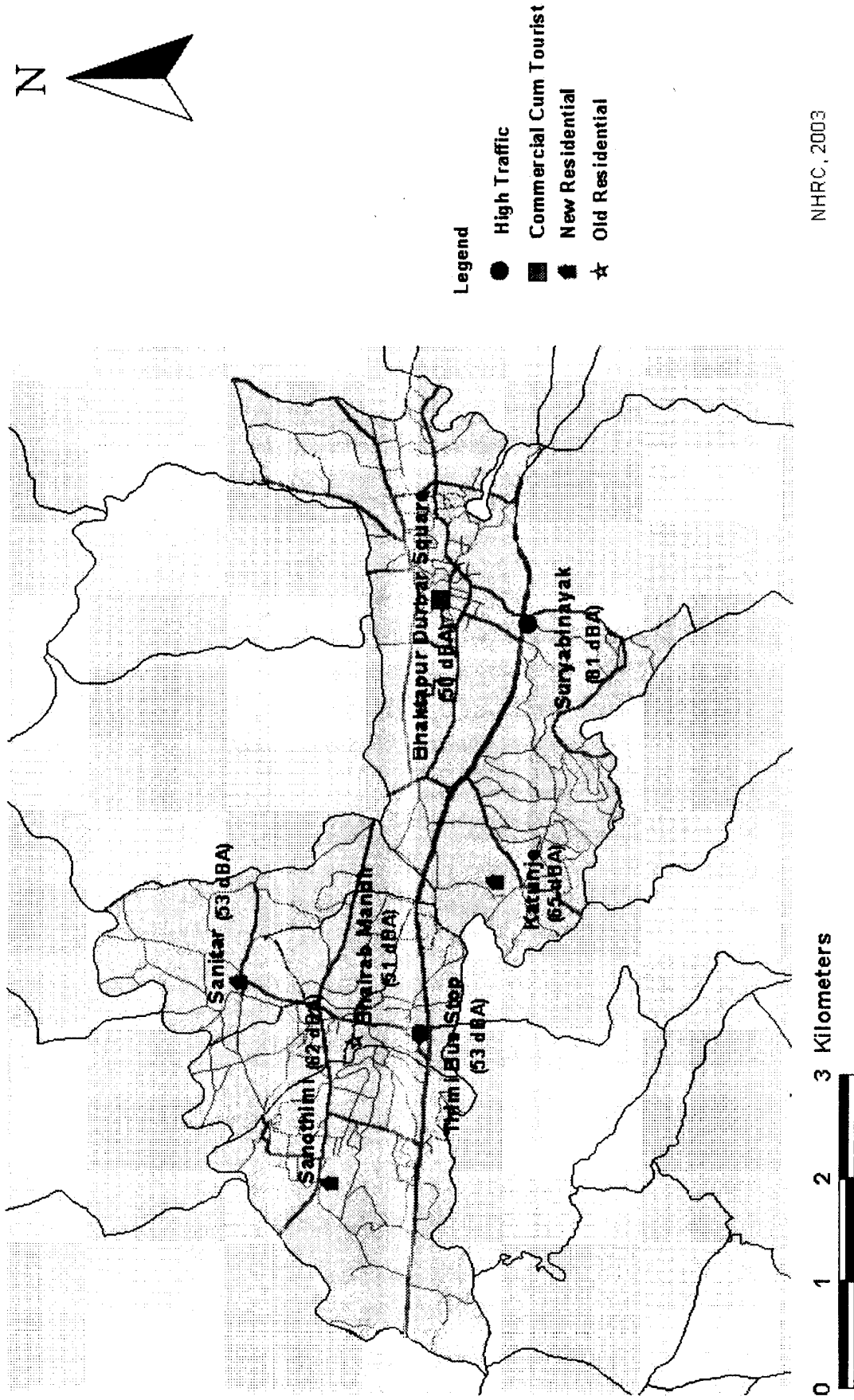
Legend

- High Traffic
- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- New Residential

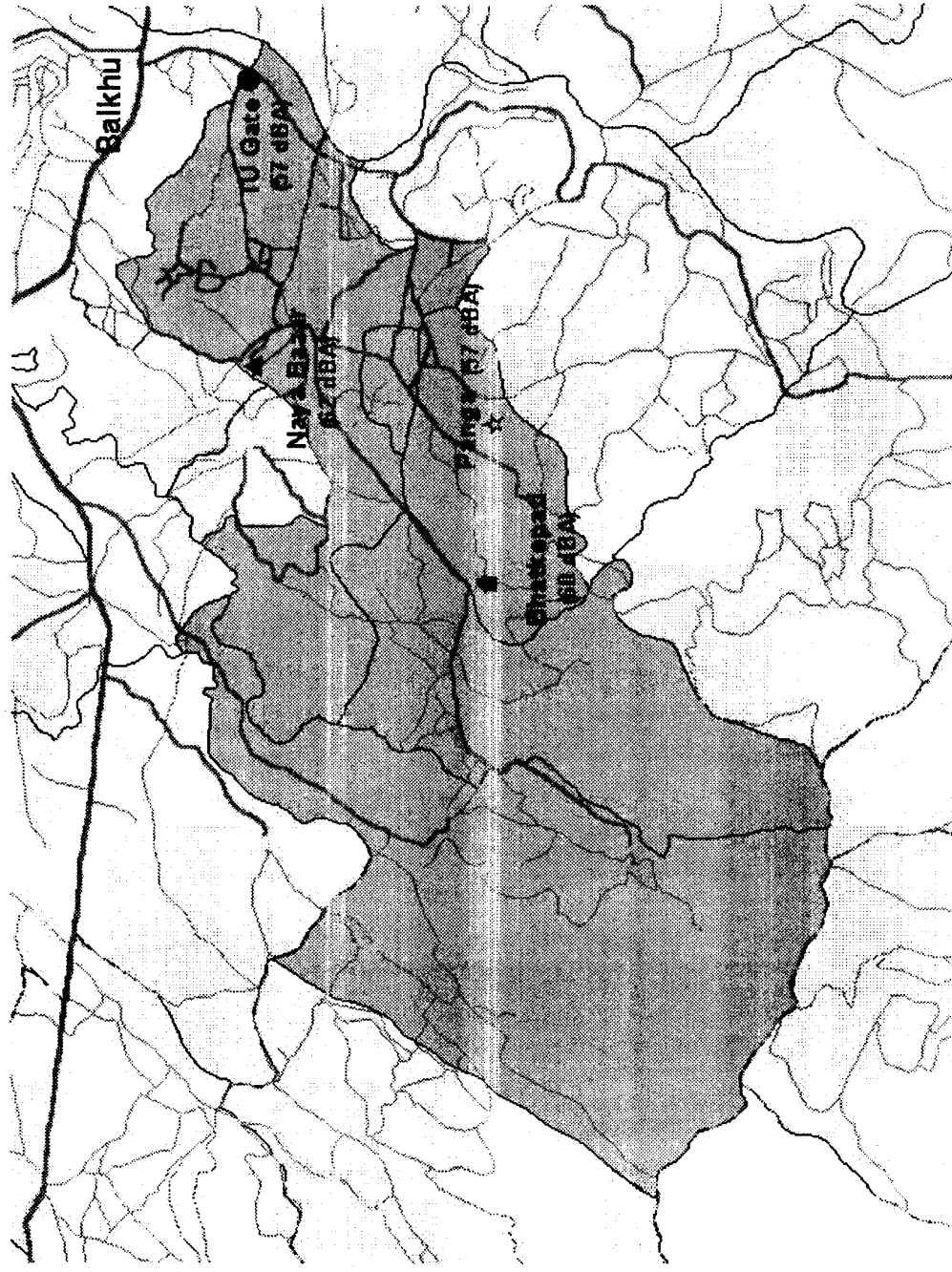


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Map 15: Leq (dBA) of Bhaktapur City during Night Hour



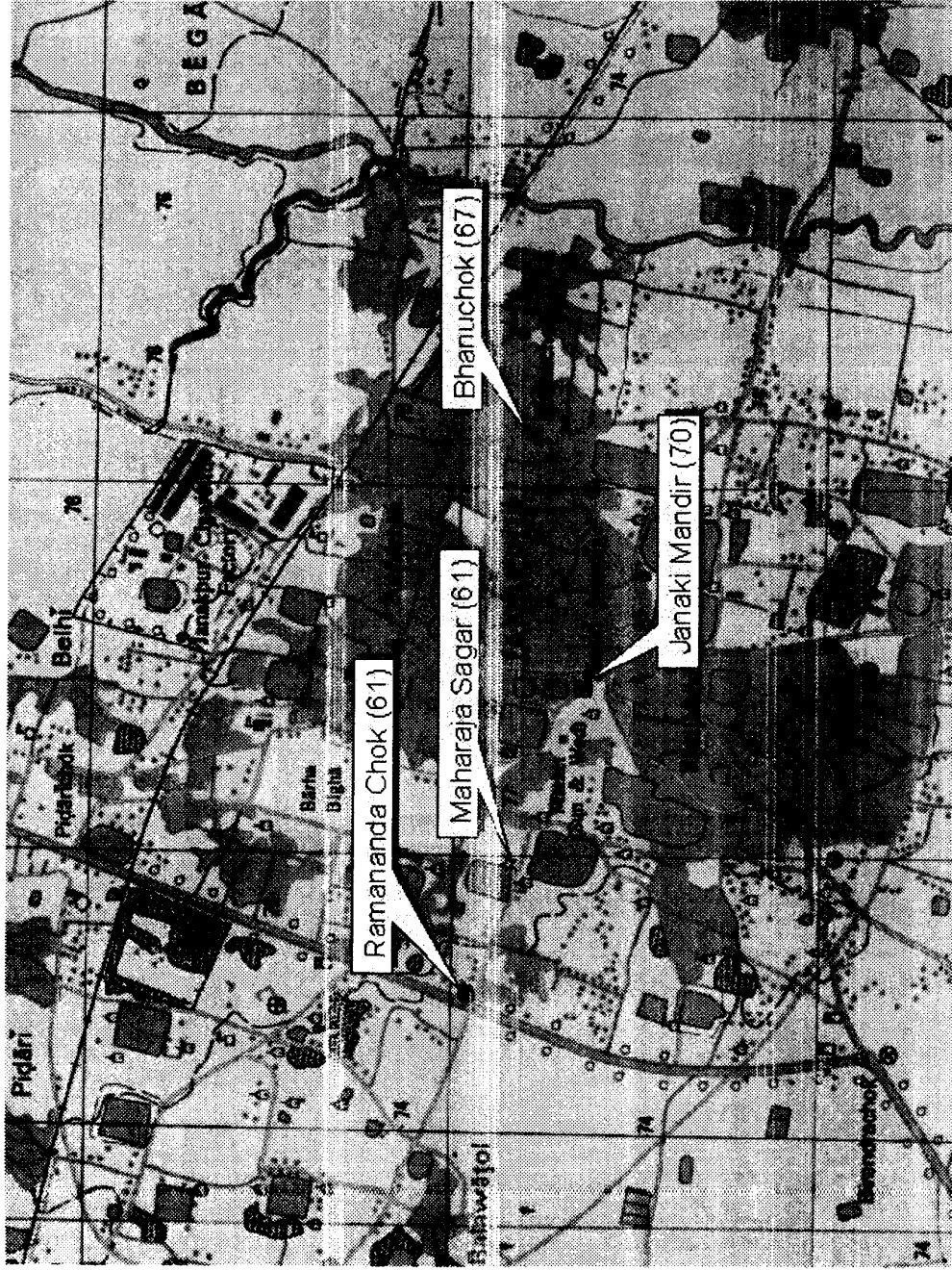
Map 16: Leq (dBA) of Kirtipur City during Night Hour



- Legend**
- New Residential
 - ▲ Commercial Cum Residential
 - ☆ Old Residential
 - High Traffic

NHRC, 2003

Map 17: Leq (dBA) of Janakpur City during Night Hour



Legend

- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- Heavy Traffic

▼ Hima Tent (612/56.3)

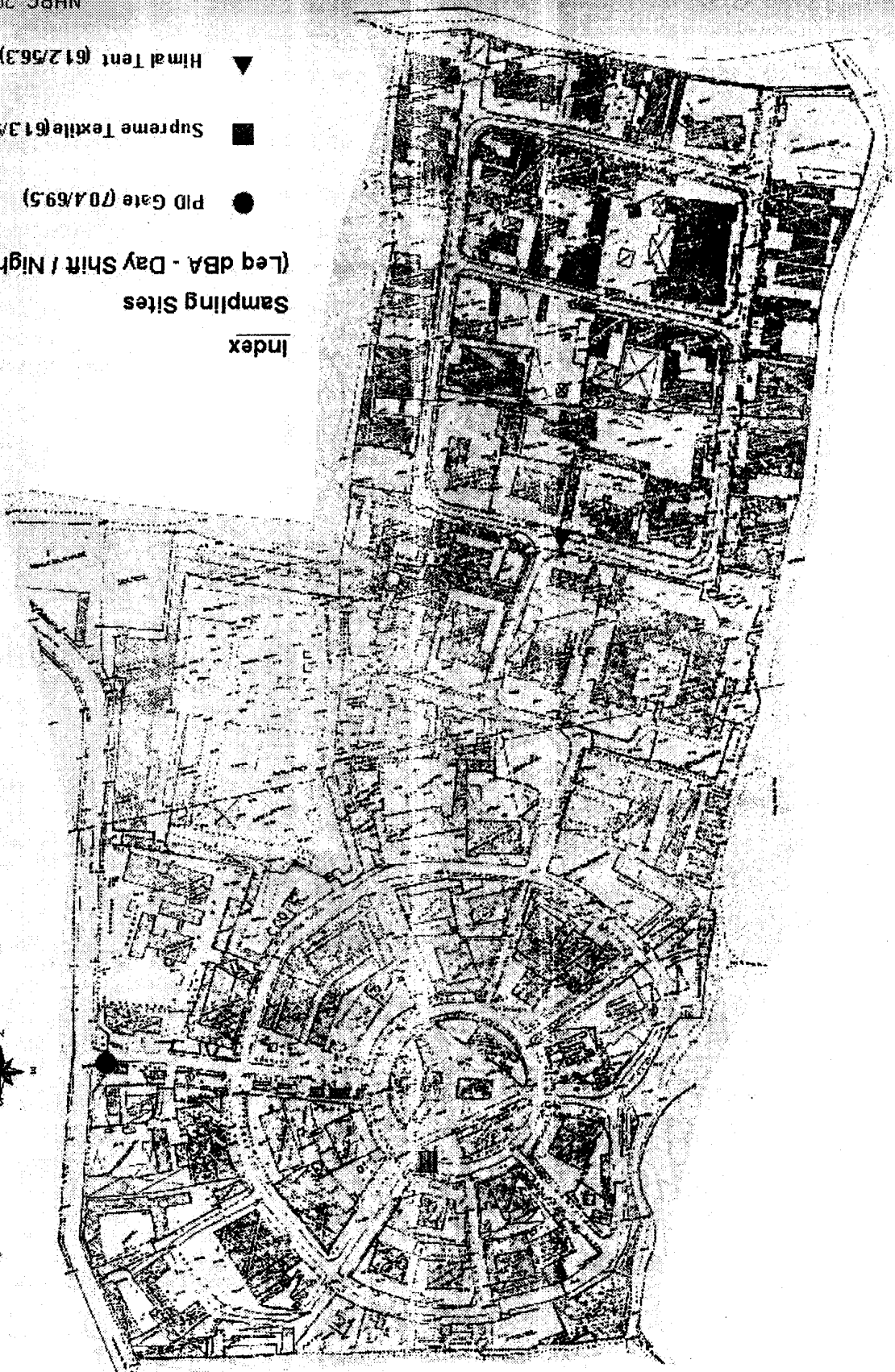
■ Supreme Textile(613/57.7)

● PID Gate (004/69.5)

(Leq dBA - Day Shift / Night Shift)

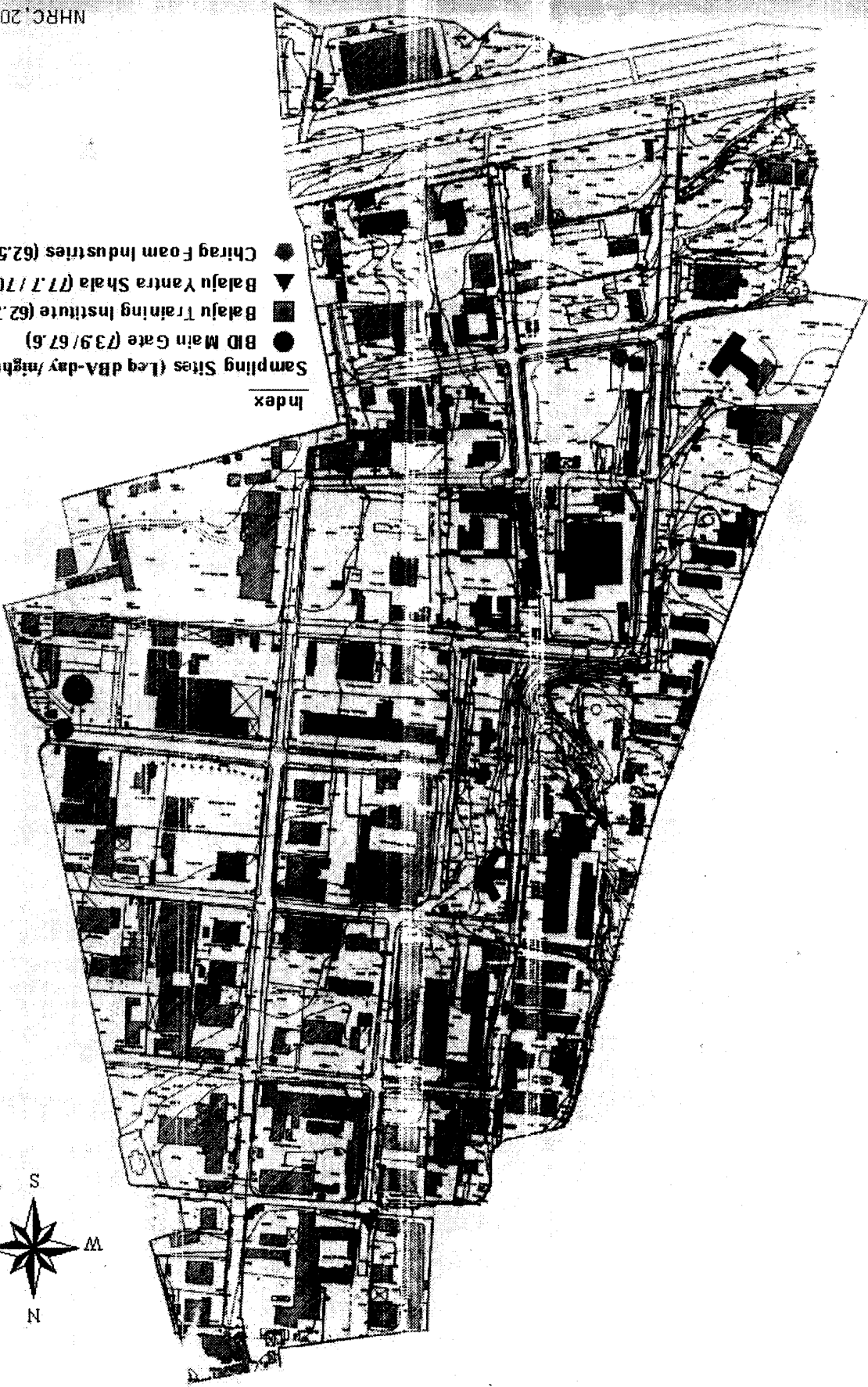
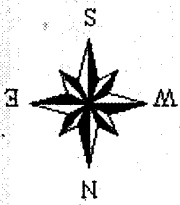
Sampling Sites

Index



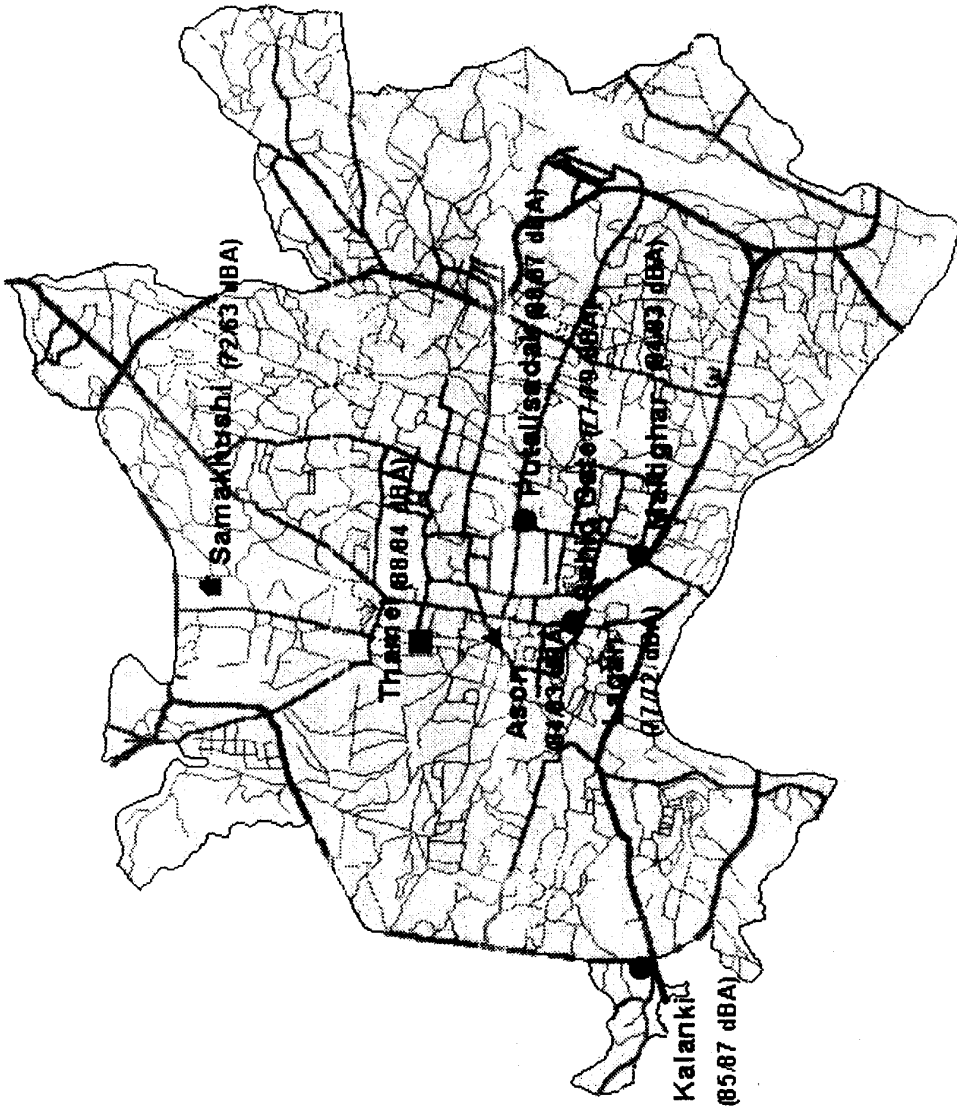
Map 19: PATAN INDUSTRIAL STATE

- Index**
- Sampling Sites (Leg dBA-day/night shift)
 - BID Main Gate (73.9/67.6)
 - Balaju Training Institute (62.7/54.5)
 - ▼ Balaju Yantra Shala (77.7/70.1)
 - Chirag Foam Industries (62.5/53.6)



Map 18: BALAJU INDUSTRIAL DISTRICT

**Map 20:
Lmax (dBA) of Kathmandu City during Office and Non Office Hour**



Legend

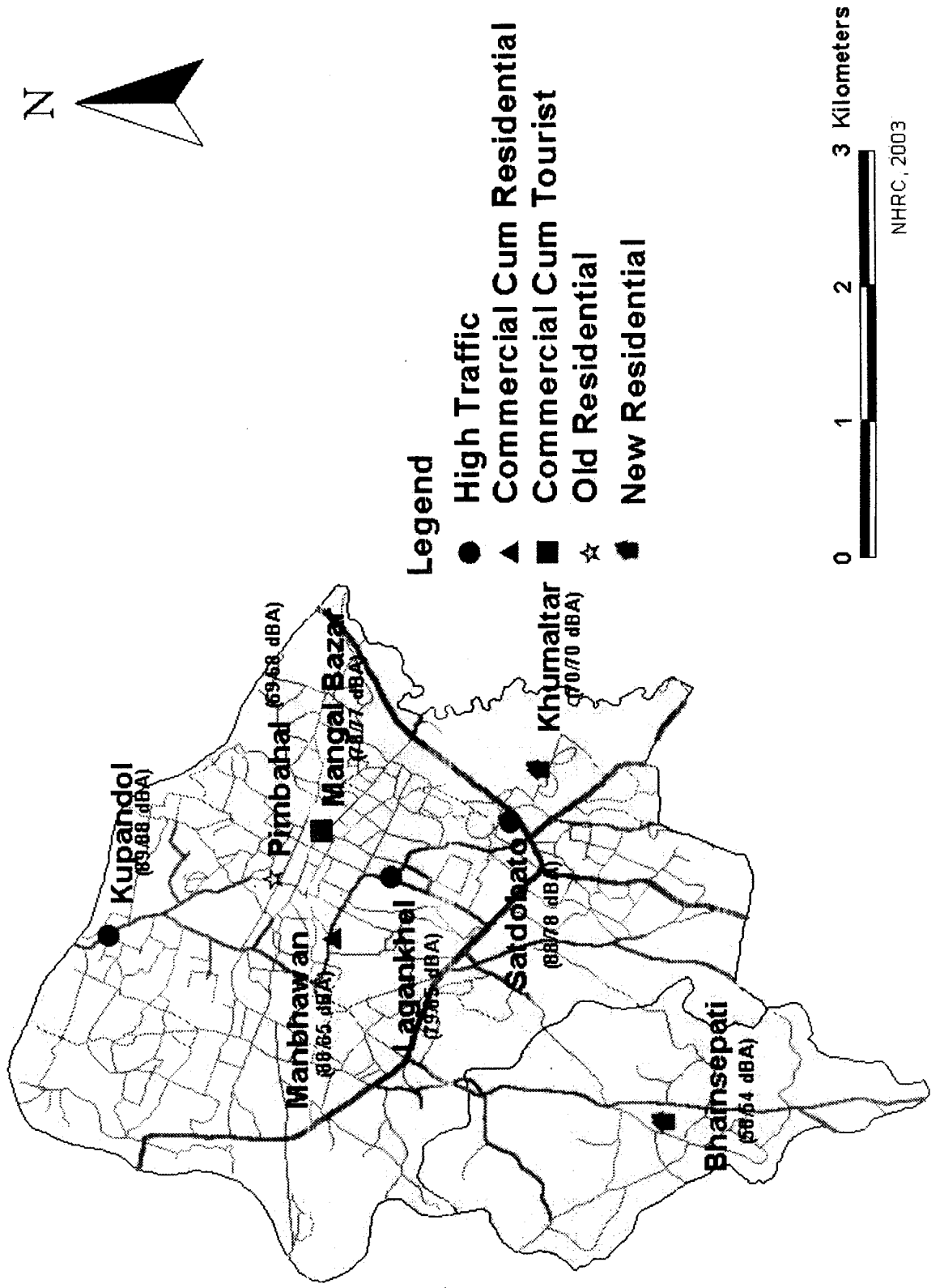
- High Traffic
- ▲ Commercial Cum Residential
- ☆ Old Residential
- New Residential
- Commercial Cum Tourist

0 0.8 1.6 2.4 Kilometers

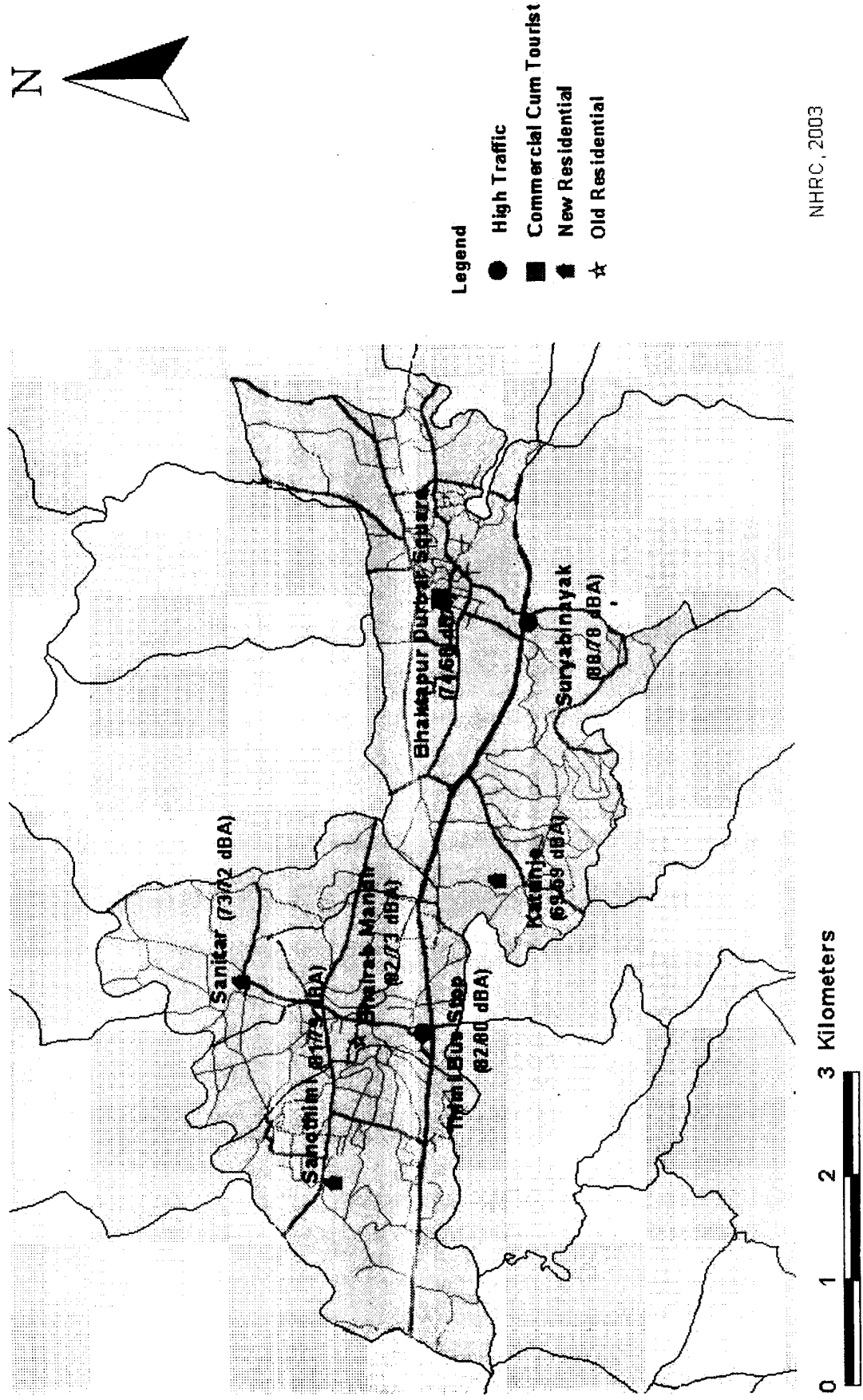
NHRC, 2003

Map 21:

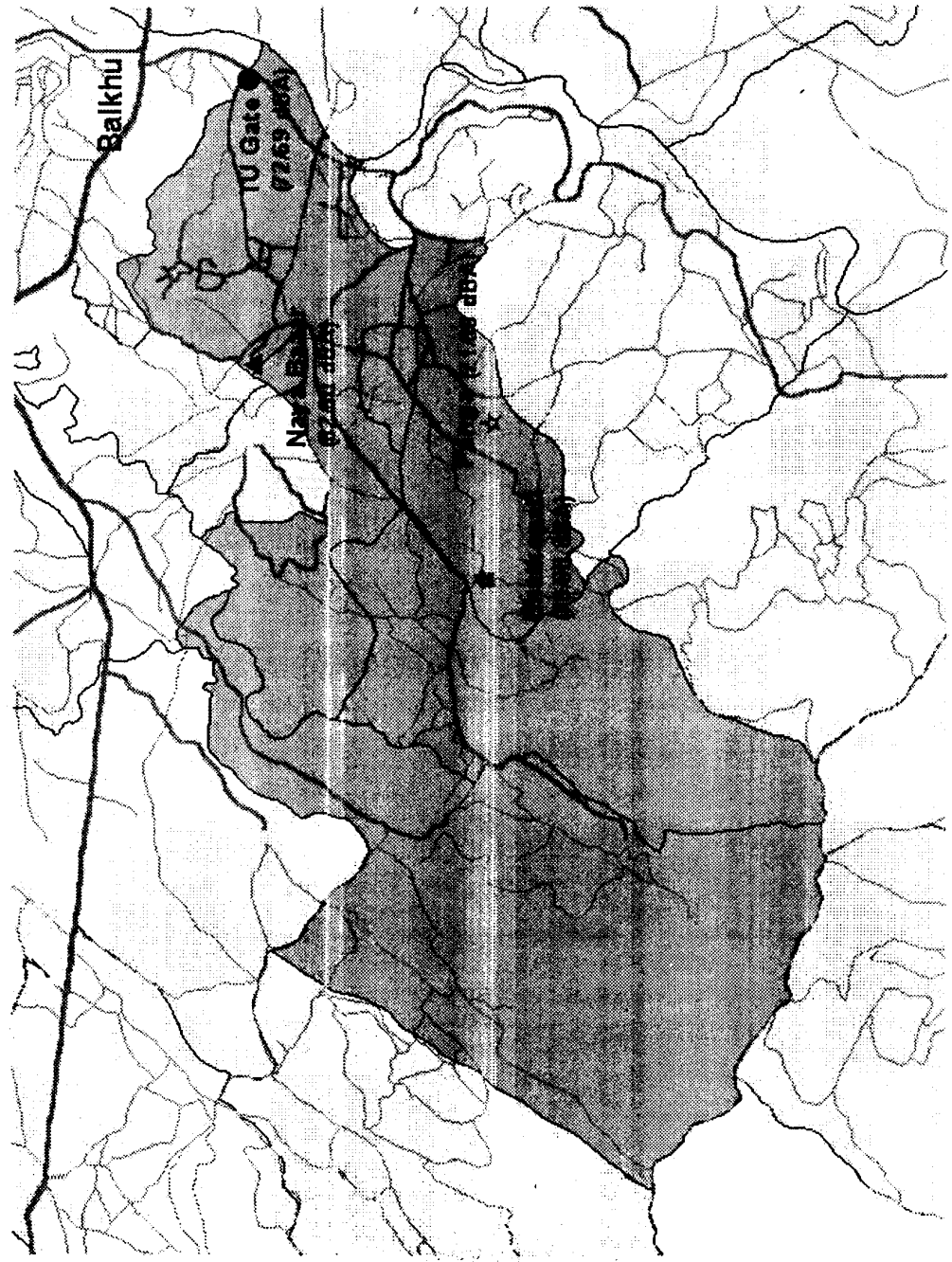
Lmax (dBA) of Lalitpur City during Office and Non Office Hour



**Map 22:
Lmax (dBA) of Bhaktapur City during Office and Non Office Hour**



Map 23: Lmax (dBA) of Kirtipur City during Office and Non Office Hour

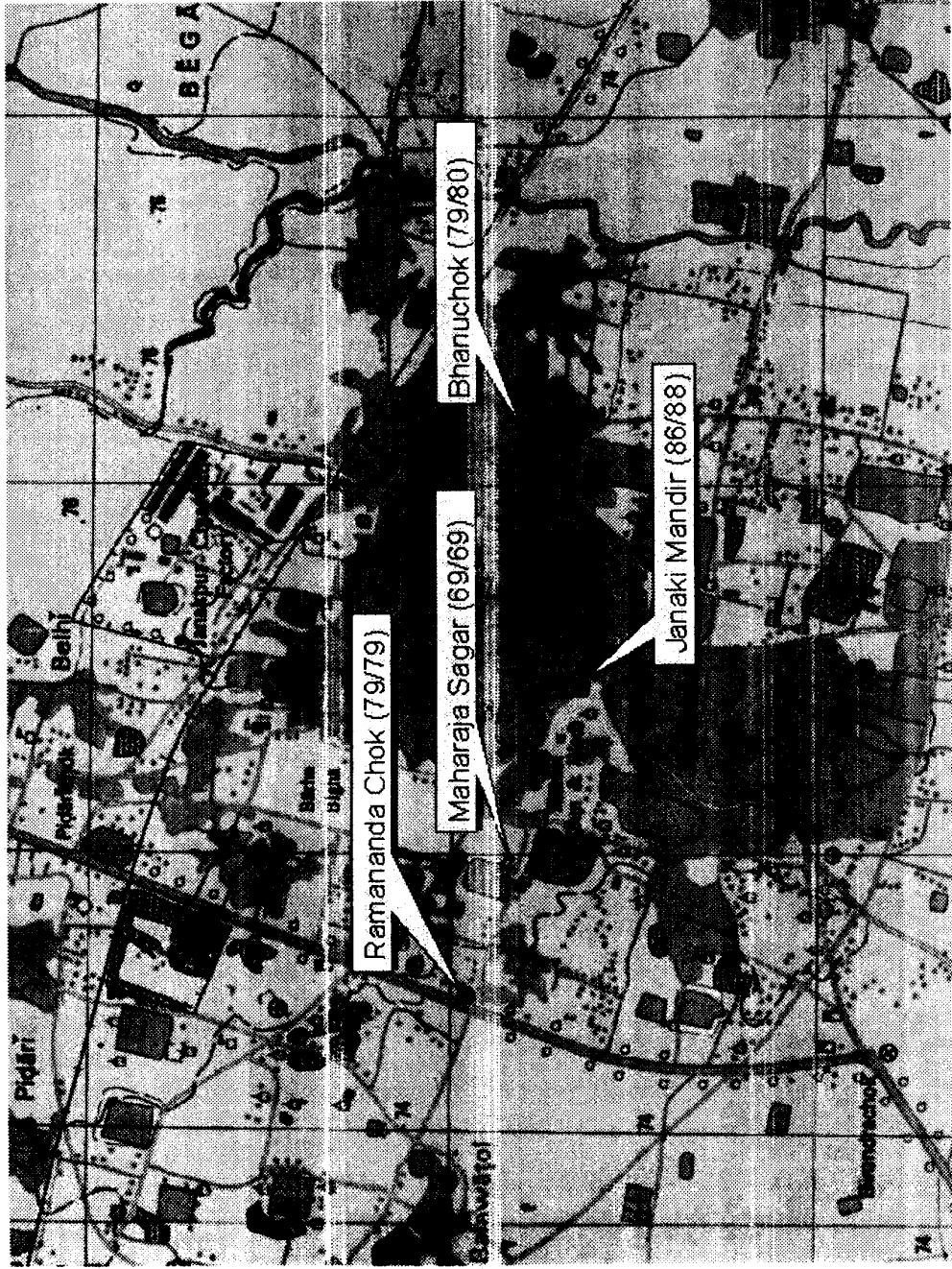


- Legend**
- New Residential (Square symbol)
 - Commercial Cum Residential (Triangle symbol)
 - Old Residential (Star symbol)
 - High Traffic (Circle symbol)



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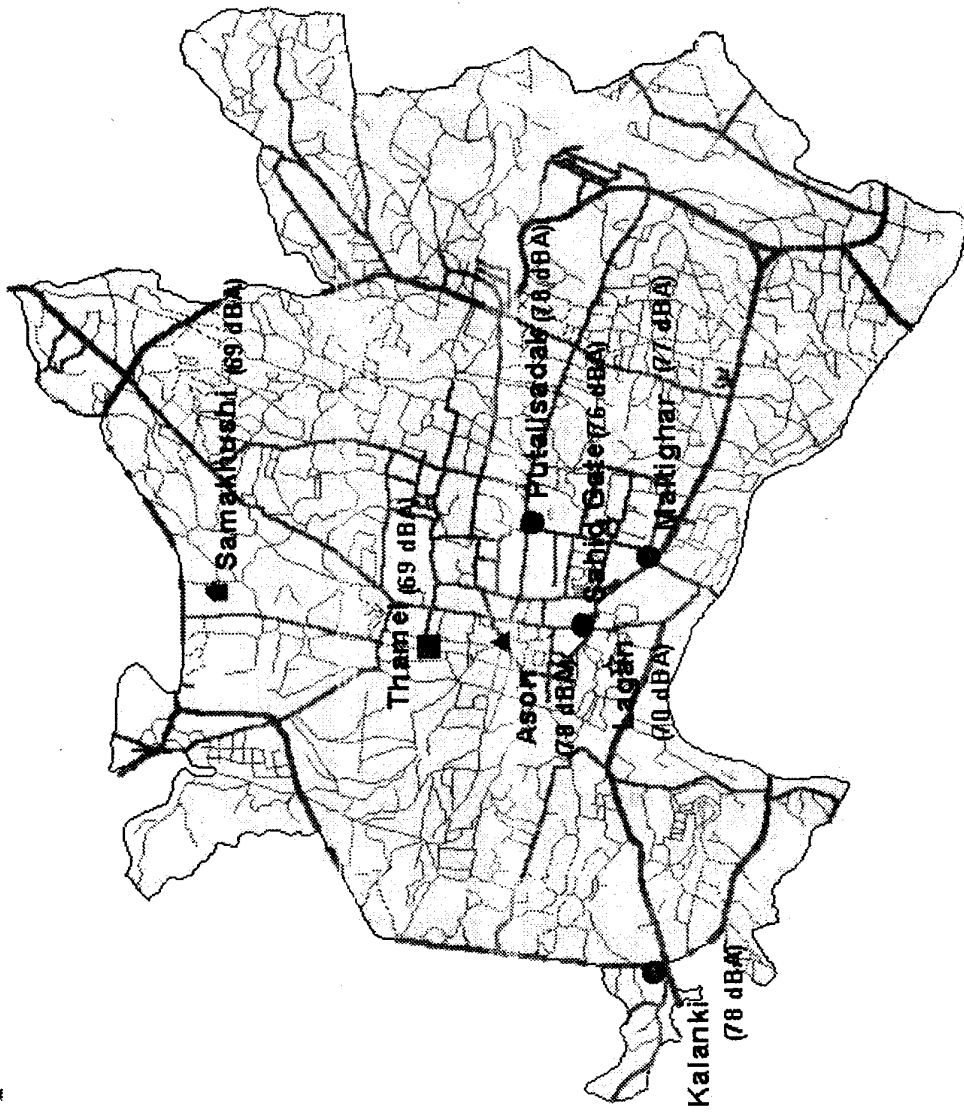
Map 24:
Lmax (dBA) of Janakpur City during Office and Non Office Hour



Legend

- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- Heavy Traffic

Map 25: Lmax (dBA) of Kathmandu City during Night Hour



Legend

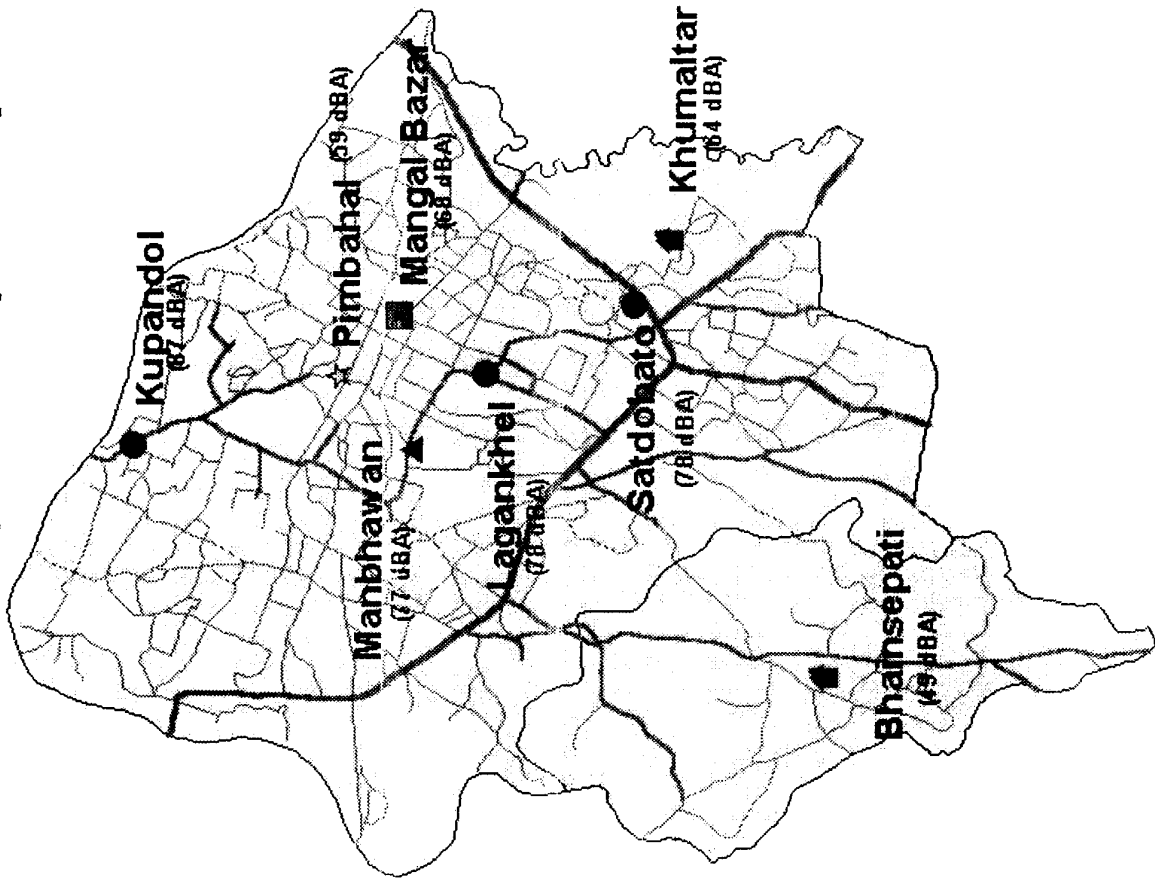
- High Traffic
- ▲ Commercial Cum Residential
- ☆ Old Residential
- New Residential
- Commercial Cum Tourist

0 0.9 1.8 2.7 Kilometers



NHRC, 2003

Map 26: Lmax (dBA) of Lalitpur City during Night Hour



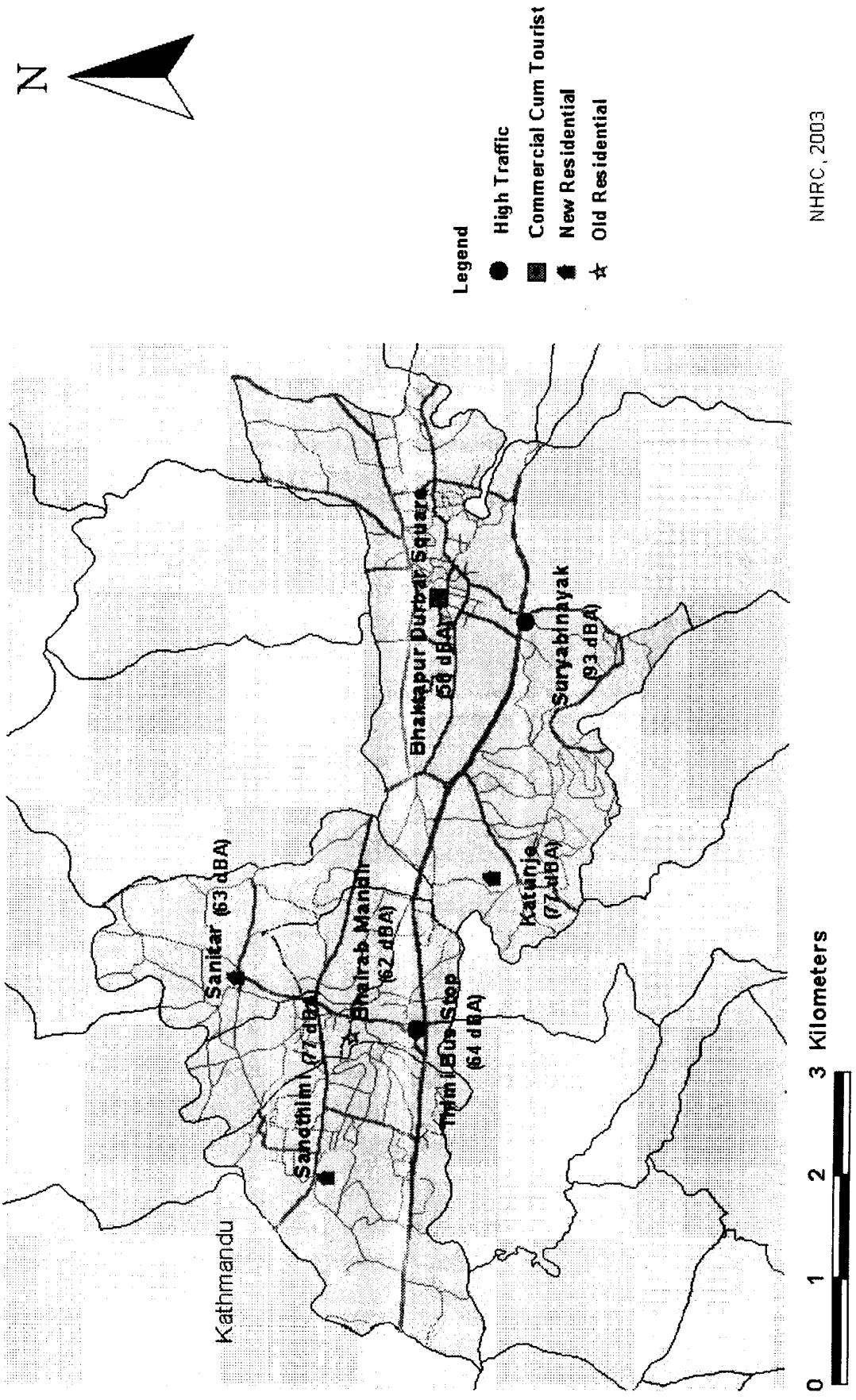
Legend

- High Traffic
- ▲ Commercial Cum Residential
- Commercial Cum Tourist
- ☆ Old Residential
- ◀ New Residential

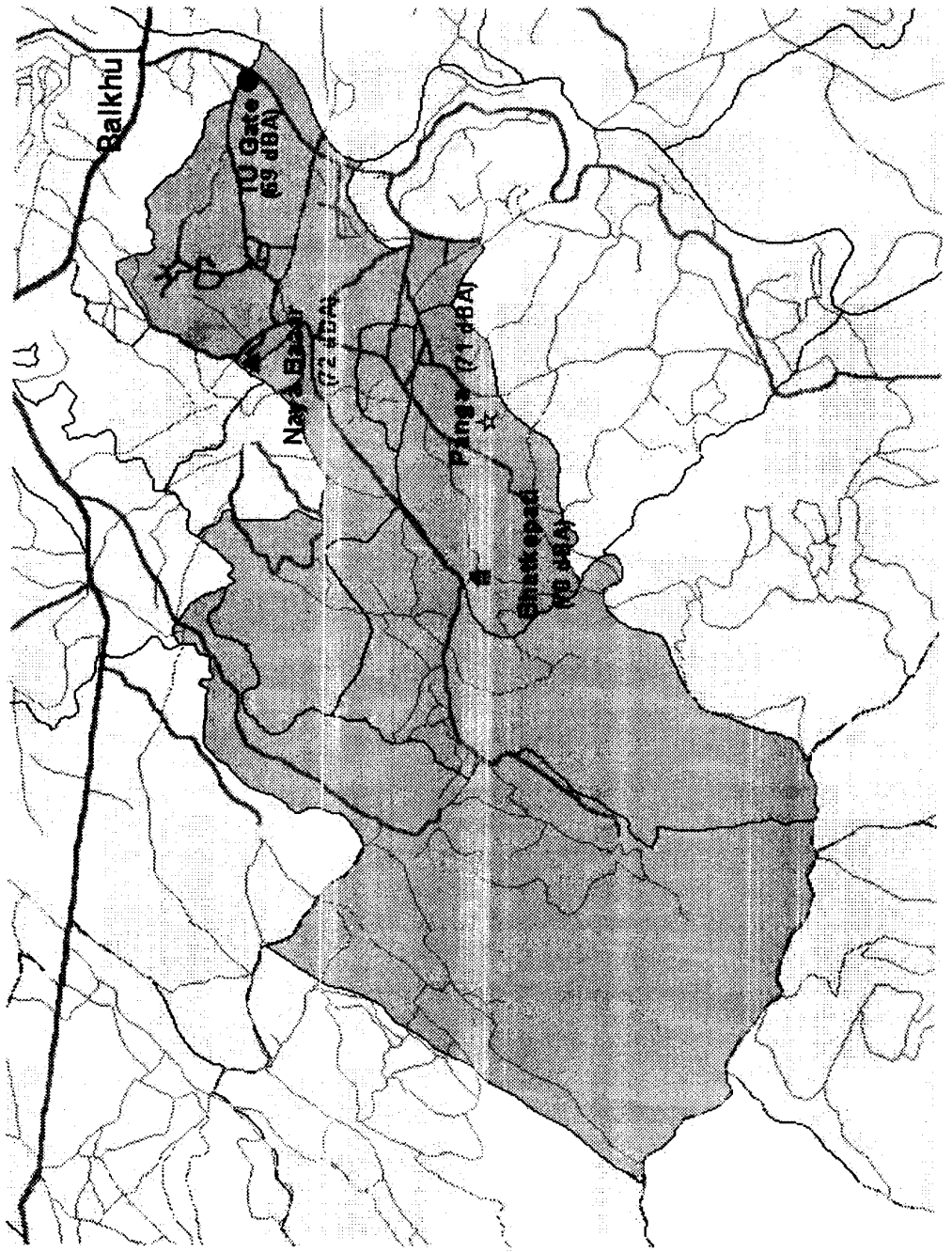


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Map 27: Lmax (dBA) of Bhaktapur City during Night Hour



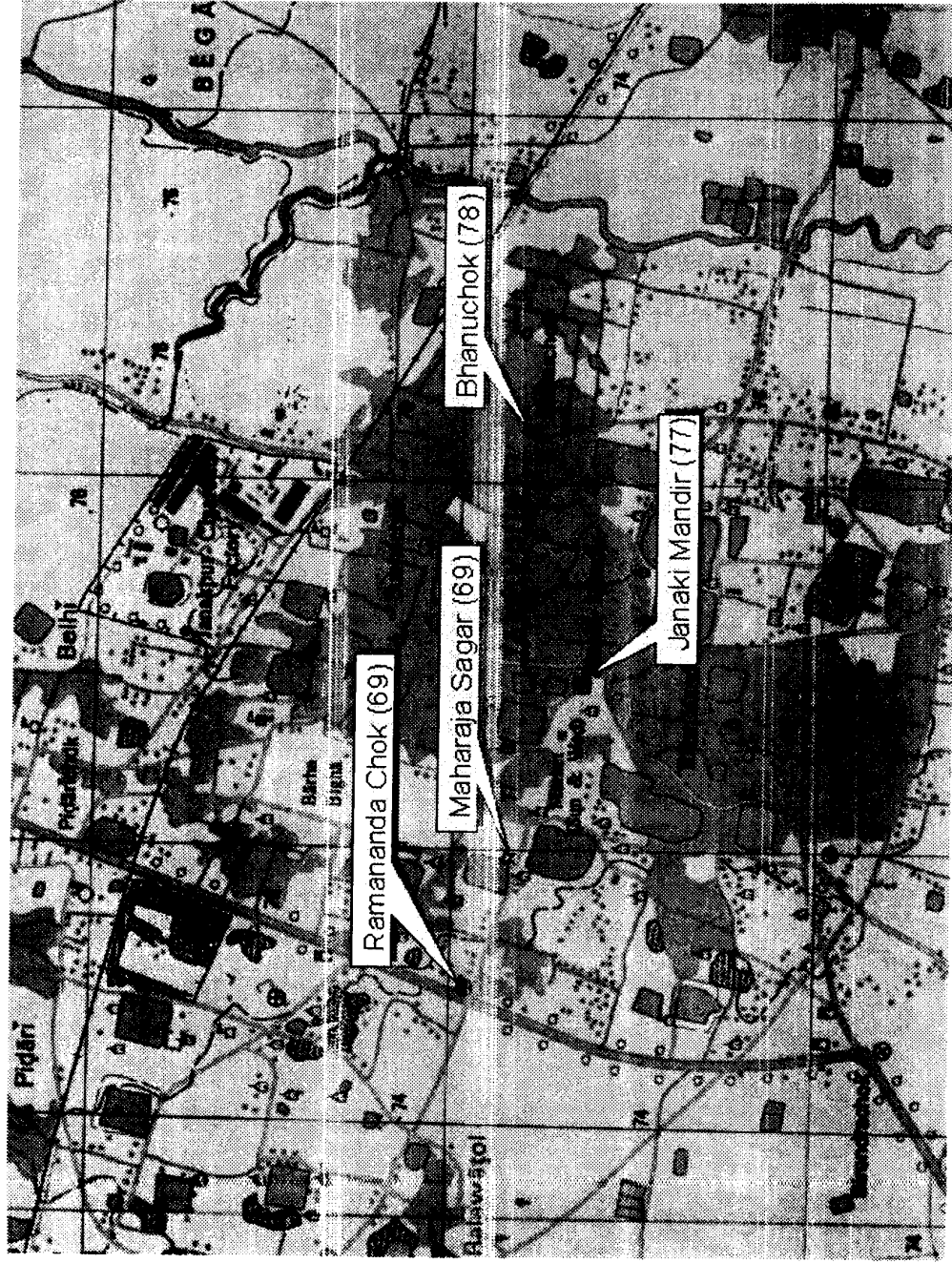
Map 28: Lmax (dBA) of Kirtipur City during Night Hour



- Legend
- New Residential
 - Commercial Cum Residential
 - Old Residential
 - High Traffic

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Map 29: Lmax (dBA) of Janakpur City during Night Hour



Annex 3: Calibration

Calibration of Sound absorber:

- Sound absorber is self-calibrated.

Calibration of Sound Level Meter NA-09

- Put the sound level meter in the mode of calibration.
- Turn dial a successively to 120, 110, & 100... and find out the background noise level (dB).
- Push both recording pen switch and paper feed switch to ON. Turn dial B and set at A-weighted mode.
- Read how many dB below the full scale the sound level meter indicates kept in the mode of calibration, set the recording pen to the correspondent position on the recording paper that the same amount of dB is below the full scale on the paper. Turning level adjuster keep press can perform the adjustment of the position of the recording pen. (For example, SLM shows + 40 dB on the meter, which is 6 dB below the maximum scale on the (recording paper). Write the background level noise on the recording paper, i.e., 50 dB (A), time zone, location, weather condition etc.
- After calibration, turn dial A towards higher dB (clockwise direction) and dial B to Cal-Bat- off modes.
- Detach the sensor from the SLM by rotating the sensor screw in counter clockwise direction and pull out the sensor parallel to the meter carefully. Attach the sensor t the external cord at the measurement point on the stand. Similarly, attach the secondary noise level cord from the external cord to the SLM carefully.
- Then turn the dial A at the background noise level position and dial B in A-weighted position. Push the power switch, recording switch pen and paper feed switch into the condition of ON. Immediately on the stopwatch. Carry the recording up to 10/15 minutes as required. Mark the typical noise sources peaks on the recording paper during the measurement. After completing the recording, put power switch, recording switch pen and paper feed switch into the condition of OF mode. Similarly set the SPM into off position according.
- Detach everything carefully.

Annex 2: Specification of Noise Monitoring Equipments

Instrument Name : **Noise Level Meter NA-09**

Manufacture by : Rion Co. Ltd. Japan
Measuring range : 35 to 130 dBA
Service temperature range : 0 -40 degree Celsius
Instrument error : less than 1 dBA
Measurement : JIS C 1512/1983

Instrument Name : **Noise Level Meter NA-09**

Manufacture by : Rion Co. Ltd. Japan
System : Automatic Balancing Servo System
Frequency range : 1 to 100,000 Hz
Dynamic : 50 dBA
Recording Pen Response : four different responses in fast and slow Mode
Rectification : true RMS
Paper Feed : By pulse Motor
Paper/Speed : 8 different speed
Recording paper : width 100mm, length 50m
Temperature Range : 10 to 40 degree Celsius
Humidity : Maximum 90%
Measurement : JIS Z 8731 /1983

Instrument Name : **Noise Dose meter GA255**

Manufacture By : Castle group Ltd., North Yorkshire, and UK
Exposure time : 0-72 hours
 L_{eq} : 0-140 dBA
PROJ DOSE 8Hr : 0-9999%
Peak : 90-140dBA
Standards : BS6402 1994 Personal Sound Exposure Meters

Instrument Name : **Noise Dose meter 701B**

Manufacture By : European union
 L_{eq} : 67 -130 dBA
Peak : 143 dBA
Display functions : Keypad function
Power : 9v 6F22 (NEDA 1604)
Temperature : -10 to 50°C

Calibration detail of GA -255 and 701 B

Instrument:

- GA 601 Calibrator, Castle Group Limited
Scarborough, YO1130Z, UK.

Procedure:

- Press the **POWER** button to turn on the instrument.
- Press **STATUS** button to check the battery condition.
- Press **SETUP** button.
- Press **Enter** button. The calibration will perform at a default of 94.0dB.
- Press **Enter** button after deciding on the calibration level of 94.0dB or 104.0dB.
- Press **Enter** button and the instrument will calibrate to the level of the calibrator.
- The instrument is now calibrated.
- The instrument is reset by pressing the reset button until 'ALL' is displayed.
- Press **Enter** button twice. This will clear reading due to calibration.
- The instrument is now ready to take measurements.

Annex 4: Sampling Sites with Respect to Reference Distance and Height

A. Heavy traffic Area

S. No	Sampling Site	Reference location	City	Reference distance from road (m)	Reference height the ground(m)
1	Kalanki	Aside the road	Kathmandu	8	1.5
2	Shahidgate	Near Sundhara public toilet	Kathmandu	15	1.5
3	Putalisadak	Aside the road	Kathmandu	11	1.5
4	Maitghar	Traffic Island	Kathmandu	10	1.5
5	TU-Gate	Near the Gate	Kirtipur	35	1.5
6	Lagankhel	Near NM-School	Lalitpur	11.8	1.5
7	Satdobato	Near the bus stop	Lalitpur	13	1.5
8	Kupandole	Kandeutasthan	Lalitpur	5	1.5
9	Suryabinayak	Near the trolleybus station	Bhaktapur	12	1.5
10	Thimi Bus Stop	Aside the road	Bhaktapur	55	1.5
11	Ramanada Chowk	Aside the highway road	Janakpur	5	1.5

B. Commercial cum Residential Area

No	Sampling Site	Reference location	City	Reference distance from road (m)	Reference height The ground (m)
1	Ason Chowk	Crossing road, Ward No.30	Kathmandu	3	1.5
2	Naya Bazaar	Near bus stop	Kirtipur	15	1.5
3	Manbhawan	Near the Ganesh temple, Tafalhon	Lalitpur	9.8	1.5
4	Bhanu Chowk	Opposite to Bhanu status, Ward no.1	Janakpur	4	1.5

C. Commercial cum Tourist Area

No	Sampling Site	Reference location	City	Reference distance from road (m)	Reference height The ground (m)
1	Thamel chowk	Crossing road, Ward No.29	Kathmandu	2.5	1.5
2	Darbar Square	In front of cafe	Kirtipur	19	1.5
3	Mangal Bazar	Near Statue	Lalitpur	16.8	1.5
4	Janaki Mandir	In front of gate, inside garden	Janakpur	25	1.5

D. Old Residential Area

No	Sampling Site	Reference location	City	Reference distance from road (m)	Reference height The ground (m)
1	Lagan	Aside the cross road	Kathmandu	15.5	1.5
2	Panga	Near Addhinath Temple	Kirtipur	15	1.5
3	Bhatkepati	Near Bus stop	Lalitpur	15	1.5
4	Pimbhal	Ashok Stupa	Lalitpur	7.2	1.5
5	Katunje	Back of Chakrapani Statue	Bhaktapur	9	1.5
6	Bhairab Mandir	Digotole	Bhaktapur	8	1.5
7	Yatri Niwas	In front of Gate, Maharaj Sagar	Janakpur	4	1.5

E. New Residential Area

S.No	Sampling Site	Reference location	City	Reference distance from road (m)	Reference height The ground (m)
1	Samakhushi	Abash Marg Wdn-29	Kathmandu	3.5	1.5
2	Sano Thimi	Opposite to Peepal tree. Wdn-14	Bhaktapur	9	1.5
3	Sanitar	Bode, Wdno.3	Bhaktapur	25	1.5
4	Sainbu	Bhisepati, west of Radio tower	Lalitpur	450	1.5
5	Khumaltar	South east corner of Swimming pool	Lalitpur	9.5	1.5

F. Industrial Area

S. No.	Location to measure ambient noise in Industry	Industrial zone
1	Balaju Training Institute, near the Gate	Balaju Industrial District
2	Balaju Yantra Shala, near the Gate	Balaju Industrial District
3	Chirag Foam Ind. Pvt. Ltd., in the compound	Balaju Industrial District
4	Balaju Industrial district, near the main gate	Balaju Industrial District
5	Supreme Textile, near the gate	Patan Industrial State
6	Himal Tents Pvt. Ltd, in the compound	Patan Industrial State
7	Patan Industrial State, near the Main Gate	Patan Industrial State

Annex 5: Measurement Headings

- **SPL:** Sound pressure level, refers as ten times the common logarithm of the ratio of the square of effective value of a sound pressure to the square of reference sound pressure (20 μ Pa).
- **L_{eq}:** A-weighted sound pressure level of steady sound which results in the equal average square sound pressure to that of former during the period of measurement.
- **L_{max}:** Maximum sound pressure level recorded over the measurement interval.
- **L_{min}:** Minimum sound pressure level expressed in dB (A), recorded over the measurement interval.
- **L_{dn}:** Day and night A-weighted average sound pressure level with an additional 10dB weighting imposed on the equivalent sound levels occurring during nighttime.
- **L₅₀:** Sound pressure level, expressed in dB (A), which is equivalent to or exceeded for 50% of the time over a measurement interval.
- **L₉₀:** Sound pressure level, expressed in dB (A) that is equivalent to or exceeded for 90% of the time over a measurement interval.
- **L₉₅:** Sound pressure level, expressed in dB (A), which is equivalent to or exceeded for 95% of the time over a measurement interval.
- **L₁₀:** Sound pressure level, expressed in dB (A), which is equivalent to or exceeded for 10% of the time over a measurement interval.
- **L₅:** Sound pressure level, expressed in dB (A), which is equivalent to or exceeded for 5% of the time over a measurement interval.

Annex 6: Sound Pressure Level in different areas of Cities

1. Kathmandu City

Location : Ason Chowk, Ward No. 30
 Monitoring Date : 24 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from Junction : 3m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	49	46	55	53	60
L ₉₅	52	50	56	57	62
L ₉₀	53	52	58	59	63
L ₅₀	59	68	69	69	67
L ₁₀	71	82	80	81	75
L ₅	75	83	81	83	77
L _{max}	78	84	83	84	78
L _{eq}	67	76	74	75	71
L _{dn}	75				

Source: Field Survey, 2002

Location : Thamel Chowk, Ward No. 29
 Monitoring Date : 24 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 2.5m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	47	51	49	55	53
L ₉₅	49	53	51	57	54
L ₉₀	50	55	53	59	56
L ₅₀	57	68	66	71	62
L ₁₀	66	82	81	86	74
L ₅	68	83	83	87	77
L _{max}	69	84	84	88	79
L _{eq}	61	76	75	80	69
L _{dn}	74				

Source: Field Survey, 2002

Location : Samakhushi, Abash Marg, Ward No. 29
 Monitoring Date : 24 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 3.5m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	34	34	33	40	33
L ₉₅	36	37	36	41	34
L ₉₀	38	39	38	41	35
L ₅₀	52	50	47	48	43
L ₁₀	66	67	60	58	56
L ₅	68	70	61	58	57
L _{max}	69*	72**	63	59	59
L _{eq}	60	62	54	53	51
L _{dn}	65				

Source: Field Survey, 2002

Location : Lagan Chowk, Ward No. 21
 Monitoring Date : 25 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy, cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from Temple : 15.5 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	47	53	54	58	49
L ₉₅	48	55	55	59	50
L ₉₀	49	56	57	60	52
L ₅₀	59	63	63	66	60
L ₁₀	72	73	74	76	73
L ₅	75	75	76	76	75
L _{max}	77	77	77	77	77
L _{eq}	67	68	68	70	67
L _{dn}	73				

Source: Field Survey, 2002

Location : Kalanki Dobato, Ward No. 14
 Monitoring Date : 25 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy, cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 8m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	55	62	61	58	58
L ₉₅	57	63	62	61	60
L ₉₀	59	64	63	62	62
L ₅₀	66	69	69	68	70
L ₁₀	76	79	79	78	79
L ₅	78	81	82	81	81
L _{max}	78	84	87	85	84
L _{eq}	71	74	75	74	74
L _{dn}	78				

Source: Field Survey, 2002

Location : Shahidgate, near Sudhara Public Toilet
 Monitoring Date : 26 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 15 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	51	58	58	59	54
L ₉₅	53	59	59	60	56
L ₉₀	54	60	60	61	57
L ₅₀	60	64	65	65	60
L ₁₀	72	73	74	72	68
L ₅	75	75	77	74	71
L _{max}	76	77	79	76	76
L _{eq}	67	68	69	68	64
L _{dn}	73				

Source: Field Survey, 2002

Location : **Putalisadak**
 Monitoring Date : 26 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 11 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	55	61	61	60	56
L_{95}	57	63	63	61	59
L_{90}	58	64	64	63	60
L_{50}	64	71	70	70	66
L_{10}	75	80	80	81	76
L_5	76	81	83	82	78
L_{max}	78	88	87	87	79
L_{eq}	69	76	76	76	71
L_{dn}	76				

Source: Field Survey, 2002

Location : **Maitighar, Traffic Island**
 Monitoring Date : 26 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially sunny and cool
 Height of monitoring : 1.5 m from the ground
 Distance from road : 10 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	55	58	59	61	55
L_{95}	57	60	61	62	57
L_{90}	59	62	62	63	58
L_{50}	64	67	67	68	63
L_{10}	74	74	75	77	73
L_5	76	76	76	79	75
L_{max}	77	78	83	84	77
L_{eq}	69	70	72	73	68
L_{dn}	75				

Source: Field Survey, 2002

2. Lalitpur City

Location : **Lagankhel, Namuna M. High School Play Ground, 5**
 Monitoring Date : 20 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 11.8 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	56	57	56	55	48
L_{95}	57	59	57	57	49
L_{90}	58	60	58	59	50
L_{50}	62	66	64	66	59
L_{10}	72	76	77	76	72
L_5	75	78	79	78	75
L_{max}	78	79	85	78	78
L_{eq}	68	71	72	71	67
L_{dn}	75				

Source: Field Survey, 2002

Location : **Manbhawan, Nearby Ganesh Temple, Tatalhon**
 Monitoring Date : 20 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 9.8 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	42	55	56	57	50
L_{95}	44	59	57	59	52
L_{90}	46	60	59	60	54
L_{50}	60	68	66	67	62
L_{10}	71	79	75	74	72
L_5	75	84	79	77	77
L_{max}	77	88	85	78	79
L_{eq}	67	76	72	70	69
L_{dn}	74				

Source: Field Survey, 2002

Location : **Satdobato near Bus Stop**
 Monitoring Date : 20 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 13 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	53	55	54	56	43
L_{95}	54	57	56	58	45
L_{90}	55	59	57	60	48
L_{50}	63	65	65	65	57
L_{10}	75	80	76	74	69
L_5	76	84	77	76	72
L_{max}	78	88	78	77	75
L_{eq}	70	75	70	69	64
L_{dn}	76				

Source: Field Survey, 2002

Location : **Khumaltar, South East Corner of Swimming Pool**
 Monitoring Date : 20 - 11 - 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy, cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 9.5 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	40	40	38	38	38
L_{95}	41	41	39	39	39
L_{90}	42	42	40	40	39
L_{50}	50	50	49	48	49
L_{10}	59	61	63	58	64
L_5	61	66	67	61	65
L_{max}	64	70	70	67	68
L_{eq}	54	57	52	49	53
L_{dn}	60				

Source: Field Survey, 2002

Location : **Pimbahal (Ashok Stupa)**
 Monitoring Date : 22 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 7.2 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	40	41	40	44	37
L_{95}	41	42	41	45	38
L_{90}	42	43	43	46	39
L_{50}	46	51	50	54	46
L_{10}	56	66	63	66	58
L_5	57	67	64	67	58
L_{max}	59	68	68	69	59
L_{eq}	51	60	57	60	52
L_{dn}	59				

Source: Field Survey, 2002

Location : **Mangal Bazaar, Near Statue**
 Monitoring Date : 22 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 16.8 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	44	54	54	54	53
L_{95}	45	56	56	56	55
L_{90}	47	57	57	57	56
L_{50}	52	63	63	63	63
L_{10}	64	74	73	74	73
L_5	66	76	74	76	75
L_{max}	68	78	77	78	76
L_{eq}	59	69	68	69	68
L_{dn}	68				

Source: Field Survey, 2002

Location : **Sainbu, Bhinsepati, West of Radio Tower**
 Monitoring Date : 22 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 450 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	34	32	34	34	30
L ₉₅	34	32	35	35	31
L ₉₀	35	33	36	36	32
L ₅₀	40	40	42	42	36
L ₁₀	46	51	51	50	44
L ₅	48	53	52	53	46
L _{max}	49	58	54	58	50
L _{eq}	42	47	46	46	40
L _{dn}	48				

Source: Field Survey, 2002

Location : **Kupondole, KandeutaSthan**
 Monitoring Date : 25 - 11- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy and cool
 Height of monitoring : 1.5 m from the ground
 Distance from road : 5 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	58	64	64	66	59
L ₉₅	61	66	66	68	60
L ₉₀	63	67	67	68	61
L ₅₀	70	72	72	75	68
L ₁₀	78	85	82	84	76
L ₅	81	87	83	86	77
L _{max}	87	89	88	88	79
L _{eq}	75	79	77	79	71
L _{dn}	81				

Source: Field Survey, 2002

3. Bhaktapur City

Location : **Darbar Square, Infront of Cafe**
 Monitoring Date : 04 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy, cool and fine
 Height of monitoring : 1.5 m from the ground
 Distance from statute : 18 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	37	44	46	45	38
L_{95}	38	45	47	46	39
L_{90}	39	46	49	49	40
L_{50}	46	54	56	55	49
L_{10}	54	65	64	64	58
L_5	57	67	67	66	60
L_{max}	58	74	68	67	66
L_{eq}	50	61	60	59	54
L_{dn}	59				

Source: Field Survey, 2002

Location : **Suryabinayak Dobato**
 Monitoring Date : 04 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cloudy, cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 12 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	49	56	58	58	49
L_{95}	51	58	60	60	51
L_{90}	54	61	61	62	52
L_{50}	68	69	65	66	60
L_{10}	87	83	77	76	67
L_5	90	86	78	78	68
L_{max}	93	88	78	79	69
L_{eq}	81	78	71	71	63
L_{dn}	86				

Source: Field Survey, 2002

Location : **Katunje, Back of Chakrapani Statue**
 Monitoring Date : 04 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Partially cool and sunny
 Height of monitoring : 1.5 m from the ground
 Distance from road : 8 m

Percentage of Sound Level	Hours				
	6:00	9:00	13:00	16:00	19:00
Minimum	52	56	53	50	39
L ₉₅	54	58	54	57	42
L ₉₀	55	58	56	60	42
L ₅₀	58	62	61	65	48
L ₁₀	65	68	71	70	52
L ₅	68	72	73	76	53
Maximum	77	81	77	79	63
L _{eq}	62	61	66	68	50
L _{dn}	65				

Source: Field Survey, 2002

Location : **SanoThimi, Opposite Peepal Bot Ward No. 14**
 Monitoring Date : 03 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Cloudy, windy & partial cool & fine
 Height of monitoring : 1.5 m from the ground
 Distance from road : 9 m

Percentage of Sound Level	Hours					Unit dB(A)
	6:00	9:00	13:00	16:00	19:00	
Maximum	77	81	79	78	63	
L ₅	68	72	73	76	53	
L ₁₀	65	68	71	70	52	
L ₅₀	58	62	61	65	48	
L ₉₀	55	58	56	60	42	
L ₉₅	54	58	54	57	42	
Minimum	52	56	53	50	39	
L _{eq}	62	66	68	65	50	
L _{dn}	65					

Source: Field Survey, 2002

Location : **Thimi Bus Stop**
 Monitoring Date : 03 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Cloudy, Windy, Partial cool and fine
 Height of monitoring : 1.5 m from the ground
 Distance from road : 55 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	34	56	56	52	40
L_{95}	41	56	61	55	43
L_{90}	43	57	62	57	44
L_{50}	50	62	65	69	51
L_{10}	59	69	73	77	57
L_5	61	71	76	80	60
L_{max}	64	73	80	82	62
L_{eq}	53	64	69	72	53
L_{dn}	65				

Source: Field Survey, 2002

Location : **Bhairab Mandir-11, Digotole**
 Monitoring Date : 03 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Cloudy, Windy, Partially cool and fine
 Height of monitoring : 1.5 m from the ground
 Distance from road : 8 m

Unit: dB (A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L_{min}	35	50	48	54	48
L_{95}	38	51	52	57	50
L_{90}	38	53	54	59	51
L_{50}	46	61	61	70	60
L_{10}	56	70	68	80	71
L_5	59	71	71	80	71
L_{max}	62	72	73	82	72
L_{eq}	51	65	64	73	65
L_{dn}	66				

Source: Field Survey, 2002

Location : **Sanitar, Bode-3**
 Monitoring Date : 03 - 12- 2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : cool and fine
 Height of monitoring : 1.5 m from the ground surface
 Distance from road : 25 m

Unit dB(A)

Percentile Sound Pressure Level	Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	33	49	40	46	40
L ₉₅	61	70	68	70	61
L ₉₀	57	69	63	66	58
L ₅₀	51	59	52	57	52
L ₁₀	39	52	43	49	43
L ₅	38	51	43	48	42
L _{max}	63	72	72	73	65
L _{eq}	53	63	59	62	54
L _{dn}	60				

Source: Field Survey, 2002

4. Kirtipur City

Location : **Panga - 9, Kirtipur**
 Monitoring Date : 06-12-2002
 Monitoring time interval : 10 mins for each specified hours
 Weather condition : Cloudy and fine
 Height of monitoring : 1.5 m from the ground
 Distance from road : 15 m

Unit: dB (A)

Percentile Sound Pressure Level	Monitoring Hours				
	6:00	9:00	13:00	16:00	19:00
L _{min}	32	43	41	45	33
L ₉₅	37	45	44	48	36
L ₉₀	38	47	47	51	37
L ₅₀	50	57	57	58	41
L ₁₀	61	70	64	67	51
L ₅	64	70	73	69	56
L _{max}	71	71	80	71	62
L _{eq}	57	64	65	62	49
L _{dn}	64				

Source: Field Survey, 2002