Naya Bazar-17

Monitoring Date

: 06-12-2002

Monitoring time interval

10 mins for each specified hours

cong time in

Weather condition

: Cloudy and fine

ostibao: 19

Height of monitoring Distance from road

: 1.5 m from the ground ...

Juniore ;

: 15

Thoric Unit: dB(A)

Percentile Sound Pressure Level		N	lonitori	ing Hou	rs		
	6:00	9:00	13:0	00	16:00	19:0	)0
L <sub>min</sub>	47	50		49	31.7	res	41
L <sub>95</sub>	47	52		50	53	1947	46
L <sub>90</sub>	49	53		.51	-54		47
L <sub>50</sub>	53	58	3-1	56	60		55
L <sub>10</sub>	66	68	1.	67	67		63
Ls	70	71		70	70		68
Lmax	72	82	:	80	79		71
Leq	62	67	7 '	65	-65		60
L <sub>dn</sub>			(	59	· · · · · ·	*. *.	

Source: Field Survey, 2002

Location

: TU Gate -3, Kirtipur

**Monitoring Date** 

06-12-2002

Monitoring time interval

: 10 mins for each specified hours

Weather condition

: Cloudy and partial cool and fine

Height of monitoring

: 1.5 m from the ground

Distance from road

35 m

Fill Milit

Percentile Sound Pressure Level		Mo	nitoring Hours	0341	) (20) ( )
11000010	6:00	9:00	13:00	16:00 (Fill)	Page 19:00
L <sub>min</sub>	42	43	44	43	34
L <sub>95</sub>	43	47	49	46	41
L <sub>90</sub>	45	49	51	48	44
L <sub>50</sub>	50	55	57	236	51
L <sub>10</sub>	59	61	63	54	61
L <sub>5</sub>	66	63	65	66	62
Lmax	69	71	69	72	62
L <sub>eq</sub>	57	58	59	60	56
L <sub>dn</sub>			64	e (el e	

: Bhatkepati, Kirtipur

Monitoring Date Monitoring time interval : 06-12-2002 : 10 mins for each specified hours Date ....

Weather condition
Height of monitoring

: Cloudy, windy and partial cool and fine 1.5 m from the ground

nontion afformation

Distance from road

: 15 m

WOT for

onno

Unit: dB(A)

Pressure Level         6:00         9:00         13:00         16:00         19           L <sub>min</sub> 44         44         43         43         43           L <sub>95</sub> 48         47         47         47         48           L <sub>90</sub> 49         48         47         48         48         48	ITS CONTROL CO	nitoring Hours	Mo		Percentile Sound		
G:00         9:00           L <sub>min</sub> 44         44         43         43           L <sub>95</sub> 48         47         47         47           L <sub>90</sub> 49         48         47         48           L <sub>50</sub> 57         55         51         50           L <sub>10</sub> 63         62         52         51           L <sub>5</sub> 65         64         54         52           L <sub>5</sub> 70         70         68         62           L <sub>max</sub> 70         53         50	16:00 19:00	13:00	0.00		Pressure Level		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
L95     48     47     47     48       L90     49     48     47     48       L50     57     55     51     50       L10     63     62     52     51       L5     65     64     54     52       L max     70     70     68     62	47 31			44	Τ .		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			47	48	•		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4	47	48	49	L95		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30	51	55		L <sub>90</sub>		
L <sub>10</sub> 63 62 54 52 L <sub>5</sub> 65 64 54 62 L <sub>max</sub> 70 70 68 62		52			Lso		
L <sub>5</sub> 65 64 54 62 L <sub>max</sub> 70 70 68 50 50	52 5				•		
1 max 70 70 50 53 50				65	+		
1 max 53 53	1		70	70			
601 391	30	53	59	60	Lmax		
L <sub>eq</sub> 66	The brain of the second	66		- 00	Leq		

Source: Field Survey, 2002

### 5. Janakpur City

Oate Oate

Familian

388**38**03-7

en) rojiiba en) rojiiba

Location

Monitoring Date

: Infront of Janaki Mandir (Garden)

10 -12- 2002

Monitoring Date

Monitoring time interval

10 mins for each specified hours

Weather condition Height of monitoring Partially cool and fine
1.5 m from the ground

Distance from road

: 25 m

13/4 mg

Unit: dB (A)

			Hours		
Percentile Sound		9:00	13:00	16:00	19:00
Pressure Level	6:00		55	56	58
L <sub>min</sub>	61	59		57	58
	62	60	56	58	60
L95	63	62	56		76
L90	68	70	61	63	85
L <sub>50</sub>	74	84	70	72	
L <sub>10</sub>		85	71	73	86
Ls	75	86	73	77.	88
L <sub>max</sub>	77		65	68	80
Leg	70	78	76		
L <sub>dn</sub>			70		

: Bhanu Chowk

Monitoring Date

: 10 - 12 - 2002

Monitoring time interval

10 mins for each specified hours

Weather condition

Partially cool and fine 1.5 m from the ground

Height of monitoring Distance from road

: 4 m

Unit: dB (A)

Percentile Sound			liours	1000	
Pressure Level	6:00	9:00	13:00	16:00	19:00
•	57	55	53	55	49
L <sub>min</sub>	58	56	56	56	50
L95	59	58	57	58	51
L90	62	65	65	65	58
L <sub>50</sub>	71	76	76	75	71
L <sub>10</sub>	74	78	78	78	73
L5 I	78	79	80	79	79
Lmax	67	71	71	71	67
L <sub>eq</sub>			73		

Source: Field Survey, 2002

Location

: Ramanada Chowk

**Monitoring Date** 

: 10 - 12- 2002

Monitoring time interval

10 mins for each specified hours

Weather condition

: Partially cool and fine

Height of monitoring

: 1.5 m from the ground

Distance from road

: 5 m

Unit: dB (A)

Percentile Sound			Hours		
Pressure Level	6:00	9:00	13:00	16:00	19:00
Lmin	47	48	55	48	45
L <sub>95</sub>	49	50	56	49'	47
L <sub>90</sub>	51	50	58	50	48
L <sub>50</sub>	57	58	65	62	55
L <sub>10</sub>	67	74	. 76	77	67
L <sub>5</sub>	68	77	78	78	68
L <sub>max</sub>	69	79	79	79	70
ı	61	68	71	70	61
L <sub>eq</sub>			69		

: Infront of Yatri Niwas Gate, Maharaj Sagar

**Monitoring Date** 

10 - 12- 2002

Monitoring time interval

: 10 mins for each specified hours

外线

Weather condition

: Partially cool and fine

ami ami

Height of monitoring

: 1.5 m from the ground

noulib

Distance from road : 4 m

anolun:

SEOT HE

Unit: dB (A)

Percentile Sound			Hours	and al	
Pressure Level	6:00	9:00	13:00	16:00,19	19:00
L <sub>min</sub>	47	46	41 -	43	43
L <sub>95</sub>	48	47	43	44	44
L <sub>90</sub>	49	48	44	45	44
L <sub>50</sub>	58	55	51	52	50
L <sub>10</sub>	65 .	66	61	6 <b>4</b>	57
L <sub>5</sub>	66	68	64	66	60
Lmax	69	69	69	69	65
Leq	61	61	57	59	53
L <sub>dn</sub>			66	74	

Source: Field Survey, 2002

Date

ા ગાળા

applifac

motion

			neros reje
S. N.	Location	Leq	(dBA)
		Day Shift (8 hours)	Night Shift (8 hours)
1	Main Gate, BID	73.9	67-6
2	Balaju Traning Institute, BID	62.7	54.5 110
3	Balaju Yantra Shala, BID	77.7	70. Inim
4	Chiraj Foam Ind. Pvt. Ltd, BID	62.5	53.6
5	Suprime Textile, PID	61.3	57.7
6	Himal Tents. Pvt. Ltd, PID	61.2	56.10
7	Main Gate, PID	70.4	69.5

#### Annex 7: List of International Noise Level Standard

#### Noise level standard set by Developed Countries

Area category	Standard dBA set by Japan(Leq)	Standard dBA set by Bridgeport city USA (Leq)
High Traffic	65	63
Residential cum commercial	60	57
Commercial cum Tourist	60	57
Public Places	48	48

Source: Sapkota et al.(1999)

Noise Limits recommended by WHO

Limit (dBA)	Situation or effect	
75	Negligible risk for hearing impairment	
30	Excellent speech intelligibility	
55	Fairly good speech intelligibility	
45	No sleep disturbance	
90	Discotheques and other ball rooms	
35	Hospital room	
55	Residential areas, outdoors, daytime	,
45	Residential areas, outdoors, night time	, garen s

Ambient Noise Standard set by India (Feb. 2000)

Category of Area	Limit in dBA Leq			
	Day Time	Night Time		
Industrial area	75	70		
Commercial area	65	55		
Residential area	55	45		
Silence area	50	40		

US Environmental Guideline to Ambient Noise in Industrial Application

Location Category	Day Time	Night Time		
Residential (measured at nearest distance)	60 dBA	55 dBA		
Commercial	65	60		
Industrial	75	75		

## WHO Guideline values for community noise in Specific Environments, 1,999

Specific environment	Critical health effect(s)	LAcq [dB]	Time have [hours]	LAmax fast [dB]
Outdoor living area	Serious annoyance, daytime and evening	55	16	-
J	Moderate annoyance, daytime and evening	50	16 Y 160	•
Owelling, indoors	Speech intelligibility and moderate annoyance, daytime and evening	35	16	
nside bedrooms	Sleep disturbance, night-time	30	Summer!	. 45
Outside bedrooms	Sleep disturbance, window open (outdoor values)	45	8 East Section 18	60
School class rooms and pre- schools, indoors	Speech intelligibility,	35	During class	-
icnools, indoors	Disturbance of information extraction.		A COLOR	
	Message communication			
Pre-school	Sleep disturbance	30	Sleeping- tinto	45
Bedrooms, indoors School, playground outdoor	Annoyance (external source)	55	Diring play	-
Hospital, ward rooms,	Sleep disturbance, night-time	30	•	40
indoors	Sleep disturbance, daytime and evenings	30	16	
Hospitals, treatment rooms, indoors	Interference with rest and recovery	#1	A. 321	
Industrial, commercial shopping and traffic areas,	Hearing impairment	70	24	110
indoors and outdoors			<b>6</b> 0 d.	
Ceremonies, festivals and entertainment events	Ilearing impairment (patrons:<5 times/year)	100	<b>4</b> 503€ 89⊞	110
Public addresses, indoors and outdoors	Hearing impairment	85	1	110
Musie through headphones/earphones	Hearing impairment (free-field value)	85 #4	1 25495648	110
Impulse sounds from toys, fireworks and firearms	Hearing impairment (adults)	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140 #2
file Antra viin 18esi ilis	Hearing impairment (children)	-	• 1	120 #2
Outdoors in parkland and conservation areas	Disruption of tranquillity	#3	-	

<sup>1:</sup> as low as possible;

#2: peak sound pressure (not LAmax, fast), measured 100 mm from the ear;

<sup>#3:</sup> existing quiet outdoor areas should be preserved and the ratio of intruding noise to natural background sound should be kept low;

<sup>#4:</sup> under headphones, adapted to free-field values

# Annex 8: Environmental Noise Pollution Survey Sample

# Noise Pollution Survey Questionnaire 2003

Questionnaires for the survey on Noise Pollution and its Health effect.

(All response is kept confidential and used only for the research purpose. Also you have right to refuse to answer before the interview starts and during the course of interview)

Name: Onwo	ta Shicitho	Age/Sex:	20/-semi	eti		
Name of Plac	e: Bhimsenge	la ype/ward	34			-
	hmandu	Types of en	vironmental s	ettings at:	Phinse	rigo
Distance from	Noise sources: 1	Dir Types of No	oise source:	velice	tes	()
	Reachung			-		
	ase type "Y" for Y Question in the Bla		and "DN" for	Don't Kno	ow while ansv	ering
following the  1) Do you know	Question in the Bla ow "Noise" is consi	ank underline.) idered as Environ	mental Pollut	ion?	ow while ansv	ering/
following the  1) Do you know a) Yes  2) Do you know here the second sec	Question in the Bla	ank underline.) idered as Environ No c) Do ts human health?	mental Pollut on't Know	ion? 	ow while ansv	ering

S. No	Source of Noise	Yes/No	S. No.	Source of Noise	Yes/No
1	Traffic Noise		8	If Other (specify)	
2	Aero plane	У	9		
3	Construction		10		
4	Audio/Loud speaker		11		
5	Religious (Bhajan/ bell)		12		
6	Industrial/Mechanical		13		
7	Crowd	<u> </u>	14		

- 5) Do you feel following health effect due to noise? Please answer the question using the following scale.
  - 0- No;
- 1-High;
- 2- Medium; 3- Low;
- 4-Negligible

S. No.	Health Effect	0	1	2	3	4
1	Couldn't hear properly until other speak loudly	-	•			
2	Get often tired working in noisy area			2		
3	Make Irritate (increase in temper/ Aggressive)		ι-			
4	Get Headache				سا	
5	Speech disturbance		11 m 1 m 1 m 1	1		
6	Sleep disturbance	1				
7	Chest pain	~				
8	Feeling of Vomiting			~	ř	
9	Feel Dizzy		مريا			
10	Make difficulties in concentration		1			

6) What should we need to do to control the Noise?

S. No.	Activity	Tick Yes	if	S. No.	Activity	Tick if Yes
1	Restriction in horn			6	Standard/ Law setting	-
2	Plantation aside the road	1		7		
3	Removing noisy vehicle	V		8		
4	Enclosing the noise source			9		
5	Awareness			10		

7) Do you have any comment on "Noise"?	
Noise causes different effects on our different effects on our different effects on our different effects.	e: 50
everyone should itty to deduce noises. No	se pou
- whom duturbs our mental mealth so	il'
Thank you.	•
Thank you.	

Please sent reply to the following Address

Mr. Santosh Shrestha: shr\_santosh@hotmail.com; shr\_santosh@yahoo.com

Mr. Sandeep Chamling Rai: s\_chamling@hotmail.com

Noise Research

**Environment Health Department** 

Nepal Health Research Council, Ramshah Path, Kathmandu, Nepal.

# **Annex 9: Clinical Examination**

### Health Information Sheet Environmental Noise Pollution Research Nepal Health Research Council Ramshah Path, Kathmandu, Nepal

Sample No.:	Sampling Date: 24/4/2003 .
Location: Kupindole Non EG.	Investigator: Dr. Sunil Kumar Joshi
Location: Kupmdole Non EG.  Vame: Bhawash Singh.  Age: 18 yrs	Sex: M Address: Kupendele .
Occupational History	)
Occupation /Address Duration of Service  Present: student - 10 +2	Envnt Noise Health effect PPE (Y/N) Sev/Mod/Mil/Nor
ı'ast:	Sev/Mod/Mil/Nor
Personal History  Drinking: Y/N Amount  Allergy: Y/N not organificant yet  ileep: (N)	Smoking/chewing: Y/N No. of Cigarette/day Duration of Smoking Irritability:
Bowel habit: (N)	Appetite: (N)
Teneral Health  TP: 90/60 mm reg Weight:  Chief Complaints:  No complain	6-7- Key Pulse:
Past Medical History	iratory Genitourinary
_Gastrointestinal WAD Othe	15
Accident Yes/ No Effect:	
nvestigation	
~\udiometry:	
Health Effect No NI	hearing loss.

AUDIOGRAM

Right Ear

Left Ear

		10 Browsin Const	18 y'w	Address Cerminate	٠	Patient No.		Embioyer James (		B 22 ( 12 AC) #		c
8000	HZ:No	Name	13	Addi		Parti		Eme		Cate		Sign
8	6000		1987-101-10	(0								
4000				_£	<u>k</u>							
	3000			_	q							
200 200 200					 	<u> </u> 						
0	1500											-
1000	750					-						-
500	1/			_	_	-				_		-
125 250					_	_		_		_	_	-
125			 	-	-	-	_		_			
	d B	-10	J 6	10	200	8	404	200	900	, <u>5</u>	80	.]
00	H		-								-	
800	0009							-				1
4000	3000	_	_	9	<b>)</b>	-	-  -			_		-
2000					0	-						
	1500		-	-	.	-		-	-			1
1000	750		-					-		-	-	
250 500	-	-	-	-	-	-	-	-	-	-		-
125 2		-		-			-		-			
1.	מַ	֓֞֞֝֞֜֜֞֜֞֜֜֞֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֝֓֜֝֓֓֓֞֝֓֡֓֡֝֡֓֡֓֜֜֡֡֓֡֡֡֡֝	ء ا	ا خ د	ا و و	֝֟֝֞֝֝֞֝֞֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֝֓֓֓֓֓֡֝֝֓֡֓֓֡֝֝֓֡֓֡֝֡֡	֧֝֟֝֝֟֝֟֝֓֓֓֓֟֝֟֓֓֓֓֟֟֓֓֓֟֟֓֓֓֓֟֟ ֓֓֓֓֞֓֞֓֞֓֞֓֞֞֓֓֞֓֞֓֞֓֓֞֞֓֓֓֓֓֓֓֓	֧֝֞֞֞֝֞֞֞֞֝֞֝֞֓֓֓֓֓֞֝֟֞֝֟֞֝֞֓֓֓֓֟֝֟֝֓֓֓֟֝֟֓֓֓֟֝֟֓֓֓֟֝֟֓֓֓֓֟֝֟֓֓֓֟֝֟֓֓֓֟֝֟֓֓֓֡֜֟֝	֓֞֞֞֞֞֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	֡֞֞֝֟֝֞֞֝֟֝֞֝֟֞֝֟֝֓֞֟֝֓֓֓֞֟֝֓֓֓֟֝֟֝֟֝֟֝֟֝	֝֞֝֟֝֞֝֞֝֞֝֟֝֓֓֓֞֝֟֝֓֓֓֓֞֝֟֝֓֓֓֓֓֝֟֝֓֓֓֝֟֝֓֓֝֝֓֓֝	ا 3

Result:

#### Health Information Sheet Environmental Noise Pollution Research Nepal Health Research Council Ramshah Path, Kathuandu, Nepal

্ ডুৱ	; · } . •	Kamana		
T	Sample No.:		Sampling Date 2 2	<b>10</b> 077
		indole . Exposed a	Investigator: Dr. Sund	<b>Sar</b> Joshi
!	Name: MIII	Bisa Expand 6	Sex: / 2	e de la companya de l
	Age: 23		Address: Kirfanica	
	Occupational History			PPE ( Y/N)
1	Occupation /A		Environment Health effect Sev/Mod/Mil/Nor ////	
	Present: House	o.eg.	Scv/Mod/Mil/Nor	
T	Past:			
١.	Personal History			<b>Ja</b> lay
. † ∂-9 <b>e</b> ±	Drinking: Y/N) Allergy: (Y/N)	Amount .	Smoking/chewing: Y/N) No. of Cig. Dugition of Smoking	
	Sleep: V		Initiality: Chear.	
r	Bowel habit:		Applific	
F	General Health			
1	DP: 90/6	Weight 4/	Pulse:	
J	Chief Complaints:			
Ĵ	Past Medical History Cardio-Vascular ()	- Resp	inatory TO 1	O
4		Othe	" Readonfora	
1	Gastrointestinal (*) Accident			
J	Yes/(No)	Effect:		
f	Investigation			
	Andiometry:			
J	Ilealth Effect	LE Modern	rally privac bearing	
1				

AUDIOGRAM

4 7 25 をひゃ/か/さび Charles A trace. HZING. Empioner Patient No. Logress Care Sign 8000 9009 4000 Ø 3000 Left Ear 2000 1500 1000 750 200 250 125 <u>6</u> 8 5 8 2 5 8 ပ္ပ 30 8 <u>6</u> -19 ğ 8000 0009 4000 3000 Right Ear 2000 1500 1000 750 250 500 125 # 5 9

· major sector

Result:

# Annex 10: Clinical analysis

# Smoking status of the subjects

	Smoking st	Smoking status of the subjects				
Group	No		Yes	Total		
	23		2	25		
Non Exposed		i i	130 81 .	36 Region to		
Exposed	35			61		
Total	58	,	3	1 taken as exposed		

Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

# Duration of smoking of the Subjects

	Duration Smo	king status of	the subjec	ts or
Group	Non smoker	<20 years	20-40 years	Total
Non Exposed	22	2	1	25
Exposed	34	2 2 San 1 10 Sport		36 -472 10
Total	56	4	1	61

Note: History of exposure to noise, those residing or working by the main road are taken at exposed.

## Previous History of Cardio Vascular Disease

	Previous history of cardio vascular disease			
Group	No	Yes	Total	
Non Exposed	19	6	25	
Exposed	20	16	36	
Total	39	22	61	

Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

### **Previous History of Respiratory Disease**

	Previous history of respiratory disease			
Group	No	Yes	Total	
Non Exposed	25		25	
Exposed	34	2	36	
Total	59	2	61	

Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

### Previous History of Genitourinary Disease

	Previous history of genitourinary disease			
Group	No	Yes	Total	
Non Exposed	25		25	
Exposed	32	4	36	
Total	57	4	61	

Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

### Noise Induced Hearing Loss

Group	Age category (Years)	Noise induced hearing loss			
		No	Yes	Total	
	1-15	2	0		
Non Europed	16 -35 •	8	· 0		
Non Exposed	36 -50	4	6		
	+50	2	3		
Total		16	9	25	
Exposed	1-15	1	0		
	16-35	10	13		
	36-50	1	7		
	+50	0	4		
Total		12	24	36	
Total		28	33	61	

Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

## **Audiometry of Right Ear**

TOTAL

	Audiome	try of Right ea	ır ,,		111100	Severe	T
Group	No noise induced hearing loss	Slight noise induced hearing loss Noise	Mild noise induced hearing loss	Moderately noise induced hearing loss	Moderately severe noise induced hearing loss	noise induced hearing loss	Total
Non	23	1.	1	0		3***	25
Exposed	<del> </del>		1	5		, t	36
Exposed	18	9	-		212	214	61
Total	41	10	5	5	::::edd	acri	

Note: History of exposure to noise, those residing or working by the main road are taken and the same taken and the same taken and taken

### **Audiometry of Left Ear**

Audiometry of Left ear Severe Moderately Mild · Moderately: No Slight noise noise noise severe no. noise Total Induced induced Group induced induced induced web induced Hearing hearing loss hearing hearing loss hearing hearing Noise loss loss loss 25 2 Non 2 2 17 Exposed 36 2 11 2 15 Exposed 61 3 13 32 Total

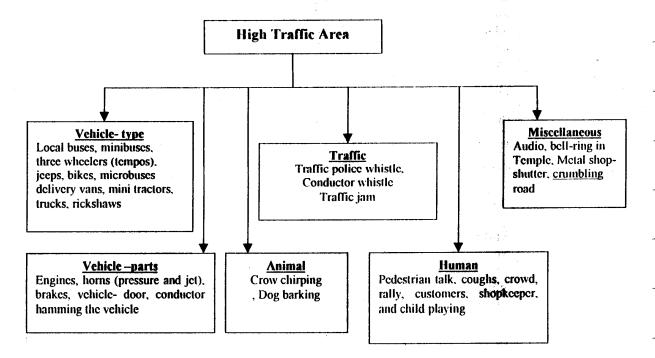
Note: History of exposure to noise, those residing or working by the main road are taken as exposed.

color 52 20 de la color 10 de la color

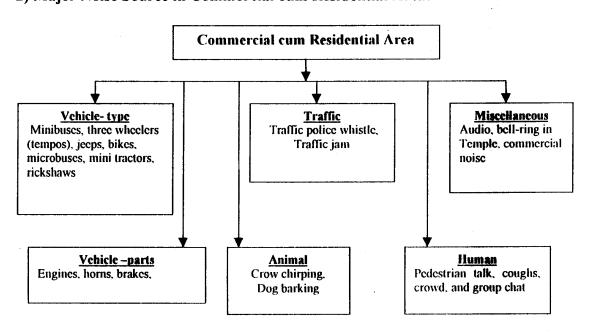
KE MAIN

# Annex 11: Major Noise Sources identified during time of Field Assessment of Noise Pollution

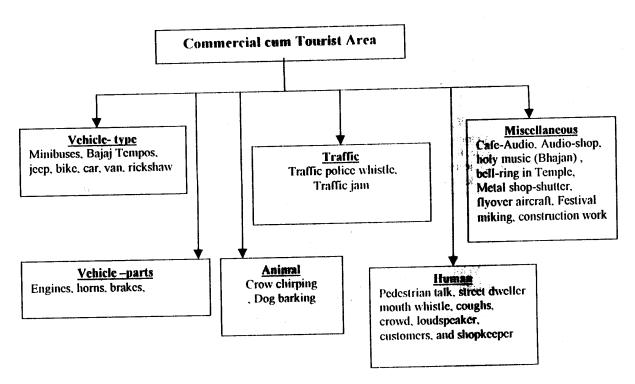
#### 1) Major Noise Source in High Traffic Area:



#### 2) Major Noise Source in Commercial cum Residential Area:

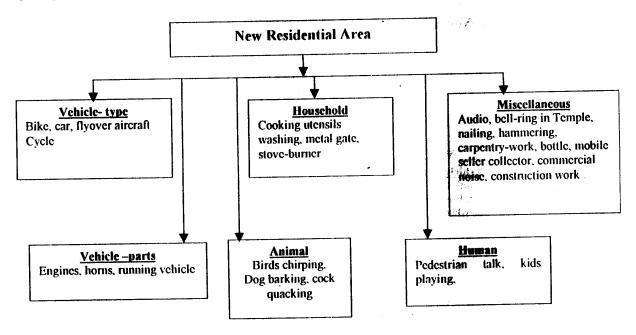


## 3) Major Noise Source in Commercial cum Tourist Area:

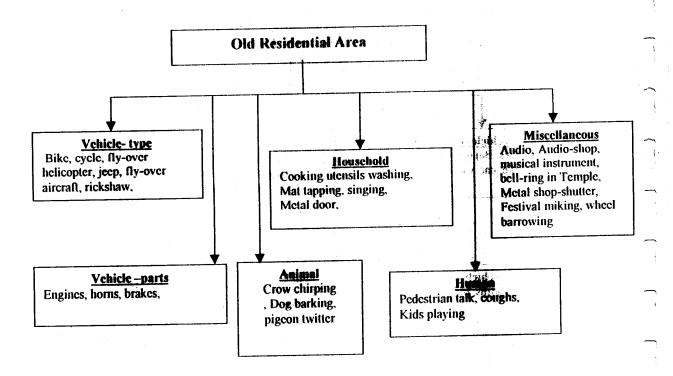


840 F

### 4) Major Noise Source in New Residential Area:



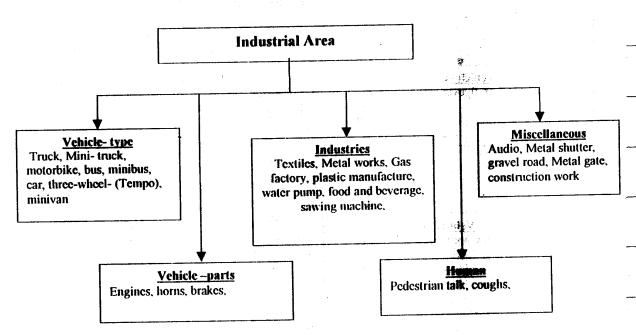
### 5) Major Noise Source in Old Residential Area:



definite.

TO STORY Y.

### 6) Major Noise Source in Industrial Area:



# Annex 12 PICTORIAL HIGHLIGHT



Photo 1: Noise monitoring at Manbhawan,Lalitpur, Mr.Jan A. Speets,WHO along with Monitoring Team

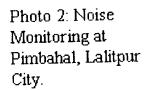


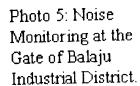




Photo 3: Noise monitoring at Thamel Chowk, Kathmandu City.



Photo 4: Noise Monitoring at Mangal Bazar,near Patan Durbar Square,Lalitpur.





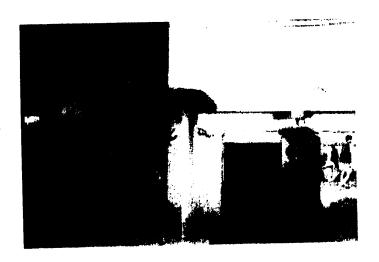


Photo 6: Noise monitoring at the gate of Patan Industrial District.

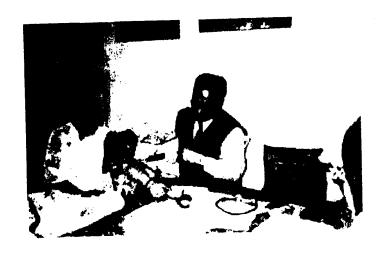


Photo 7: Clinical Examination of the community living in Kupondole, Lalitpur.

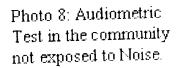


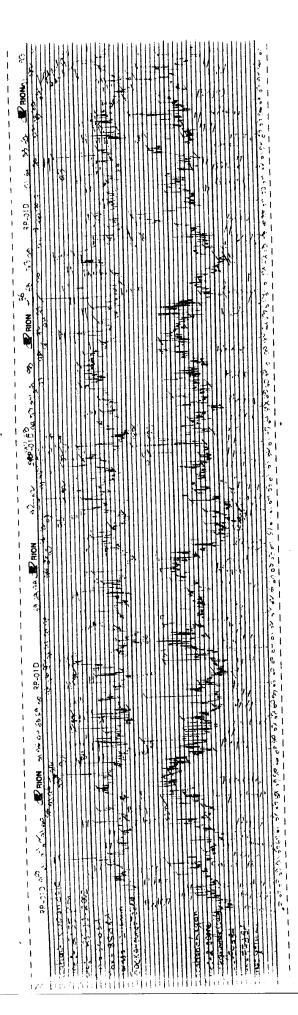




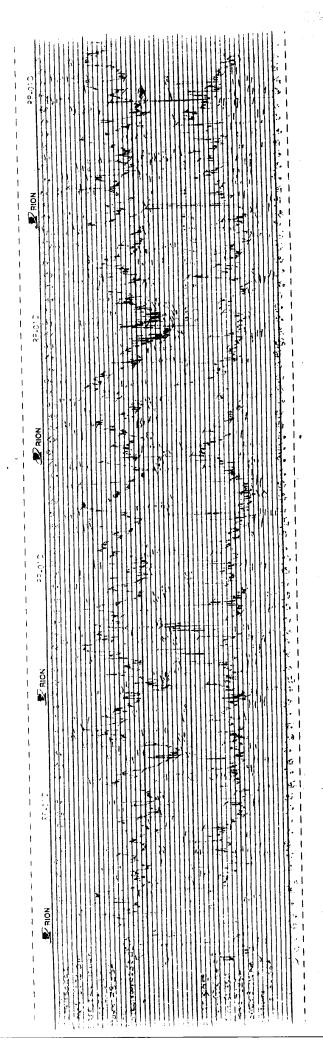
Photo 9: Audiometric Test in the community exposed to Noise.

Annex 13: Graph showing Sound Pressure Level in Different Settings

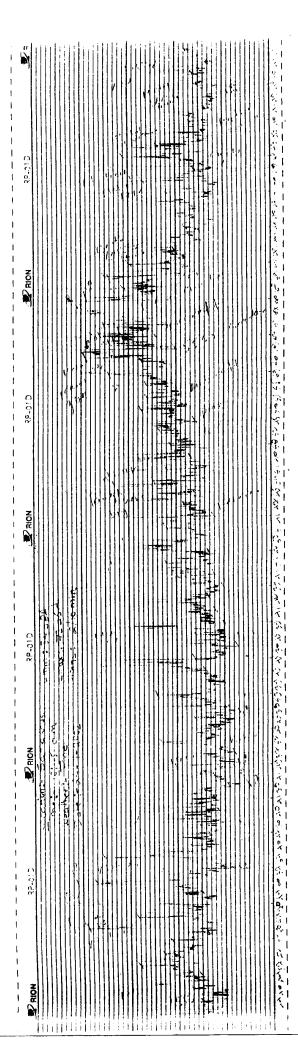
A Graph Showing Sound Pressure Level in Kupondole, Lalitpur and Lagan Tole, kathmandu in 25-11-2002



A Graph Showing Sound Pressure Level in Putalisadak and Shahidgate, kathmandu in 26-11-2002



A Graph Showing Sound Pressure Level in Samkhushi, Lalitpur in 24-11-2002



A Graph Showing Sound Pressure Level in Bhanu Chowk, Janakpur in 24-11-2002

