

CyLOS

CyLOS

Cycling Level Of Service Evaluation Tool

**Final Report
(workshop consultation)**

Developed by:
SGArchitects, New Delhi
in partnership with
Fazio Engineerware, Chicago
Technical Advisor : TRIPP, IIT-Delhi

SGArchitects
www.sgarchitects.in

FAZIO
ENGINEERWARE



SHAKTI
SUSTAINABLE ENERGY
FOUNDATION

CyLOS Workshop Report

Table of Contents

1	Introduction	4
2	Third Party Assessor.....	4
3	Program.....	5
4	Target Audience	7
5	Findings	8
5.1	Workshop 1 - Bhopal.....	8
5.2	Workshop 2 - Hyderabad	10
5.3	Workshop 3 – Chandigarh.....	12
5.4	Workshop 3 – Guwahati.....	14
6	Additional Comments	16
7	Annexure.....	17
7.1	Annexure I – Program	17
7.2	Annexure 2	18
7.2.1	List of Participants – Bhopal	18
7.2.2	List of Participants – Hyderabad	20
7.2.3	List of Participants – Chandigarh	24
7.2.4	List of Participants – Guwahati	26
7.3	Annexure 3 – Session Feedback Form.....	30

CyLOS Workshop Report

List of Figures

Figure 1 : Workshop Speakers	6
Figure 6: Target Audience	7
Figure 2: Bhopal, Madhya Pradesh	8
Figure 3: Hyderabad, Telangana	10
Figure 4: Chandigarh	12
Figure 5: Guwahati, Assam	14

1 Introduction

Cycling is one mode which can address majority of mobility demands in the city with a 'Zero' carbon footprint. India still retains a very high Non Motorised Transport in the travel mode share in rapidly expanding urban centres. However rapid motorization and lack of adequate attention to cycle friendly road infrastructure threatens NMV use and currently a decreasing trend in cycle use in Indian cities is observed. Planning and engineering solutions failed to integrate cycling in urban infrastructure; resulting in either over segregation to block motorized two wheelers thus mostly excluding use; or reduced priority resulting in bicycle network being compromised to motorized vehicular parking or lanes.

Cycling Level Of Service (CyLOS) Evaluation Tool is a tool that helps planners and designers to plan and develop safe and convenient cycling paths and facilities. Such cycling infrastructure will be useful for short commutes within the city, including trips to school, to local shops, work places, etc. This tool is based on learning from cities experimenting with different types of cycle infrastructure including national and international studies and is called CyLOS or short for 'Cycling Level of Service.' The availability of such a tool will direct attention and corrective action towards specific development, implementation and operation issues, resulting in a user appropriate infrastructure. Such efforts in the long term, when replicated across the city, would ensure better utility of investments made in non-motorized transport, generating higher use and better public image. The tool can be seen on www.cylos.in.

To ensure access by critical users to the tool, it was inevitable to expose CyLOS to various stakeholders through feedback and consultation workshops in four cities. The cities chosen were Bhopal, Hyderabad, Chandigarh and Guwahati. The feedback session on CYLOS was included as part of a full day workshop which focused on Sustainable Transport – NMT Policy Planning and Design.

2 Third Party Assessor

It was since inception intended that a collaboration with a local or a central CSO/NGO as a third party assessor shall be taken up in the final feedback/consultation stage. This CSO/NGO should be equipped with adequate background knowledge of the project as well issues concerning NMT infrastructure planning and implementation.

While the local/central CSO shall provide and impartial third party review of the process and the tool, the workshops will include gathering comprehensive stakeholder, based review of the tool. Such information shall also be useful to validate, calibrate and if required upgrade the tool. The CSO/NGO shall also have access to city officials and city level decision makers to facilitate better co-ordination of city level workshops.

CyLOS Workshop Report

SGArchitects collaborated with the Institute of Democracy and Sustainability headed by Rajendra Ravi, for all four city workshops. Rajendra Ravi and his organisation has credible acknowledgement as a national level CSO. Their work has been synonymous with social action and training in India. He is also a member of Sustainable Mobility Network (SUM-Net), India. Each city had representatives on behalf of IDS or sister organisation to delve into discussion and raise relevant issues not only contributing to the CyLOS session but also the other sessions in the workshop.

The IDS representatives in each city workshop are:

- | | | |
|----|------------------------|---|
| 1. | Bhopal, Madhya Pradesh | Rajendra Bhise
Shree Prakash |
| 2. | Hyderabad, Telangana | Sujit Patwardhan
Ramachandriah Chigurupati |
| 3. | Chandigarh | Rajendra Ravi
Virendra Vidrohi
Dr. Virendra Vidrohi |
| 4. | Guwahati, Assam | Rajendra Ravi
Ram Wangkheirakpam |

3 Program

A one day intensive workshop program was conducted in the four identified cities. The workshop was conducted in :

1. Bhopal, 10th June 2014
2. Hyderabad, 25th June 2014
3. Chandigarh, 10th July 2014
4. Guwahati, 5th August 2014

The program included four sessions which were presented under Sustainable Urban Transport – NMT Policy, Planning and Design. The workshop was closely crafted by starting with the national policy – National Urban Transport Policy 2014 prepared by Institute of Urban Transport, Delhi. This was followed by the Non Motorised Transport Policy and Planning and Design Guideline for Cycle Infrastructure prepared by TRIPP-IIT Delhi. These sessions provided critical foundation of the cycling environment in India through policies and planning and design interventions. CYLOS was introduced to the audience as the final session where the tool focused the evaluation of the cycle infrastructure. Eminent Speakers presented relevant sessions followed by discussion with the audience.

CyLOS Workshop Report



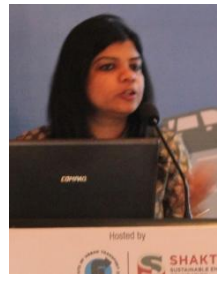
Megha Aggarwal
Insitute of Urban
Transport
NUTP 2014



Dr. Anvita Arora
iTrans Pvt Ltd



Prof. Geetam Tiwari
TRIPP, IIT-Delhi



Ruchi Varma
SGArchitects



Sandeep Gandhi
SGArchitects

	NMT in Urban Transport Policy	Planning and Design Guidelinefor Cycle Infrastructure	CYLOS
--	-------------------------------	--	-------

Figure 1 : Workshop Speakers

A brief description of all four sessions is given in the following:

National Urban Transport Policy (NUTP)-2014

National Urban Transport Policy (NUTP) was issued by Ministry of Urban Development (MoUD), Government of India (GoI) in the year 2006. NUTP aims at

- (a) Moving people rather than vehicles
- (b) Making our cities most livable in the world, and
- (c) Guiding central financial assistance towards improving urban mobility.

Eight years have now passed since the policy was incepted and several new initiatives have been taken by MOUD to promote good mobility in cities. Recent reports by the working group on urban transport for the 12th Five Year Plan(FYP) and for the 'National Transport Development Policy Committee' (NTDPC) have recommended several policy interventions. A review shows that only few recommendations of 12th FYP and NTDPC report find a place in the NUTP 2006. The revised NUTP 2014 has not only added the relevant provisions missing from the policy, but also modified the current provisions and re-arranged the whole policy in order to make it more comprehensible. This version was to be discussed with the stakeholders and get feedback.

Non Motorised Transport in Urban Transport Policy

NMT Transport Policy has been developed to guide state government departments to promote NMT i.e walking and cycling as priority choice for mobility. It provides wide range of policy interventions to address the needs of captive users' as well as potential NMT users. This policy covers four major sections i.e., infrastructure, communication, legislation and financial interventions and discusses which tier of government will be responsible for its implementation.

CyLOS Workshop Report

Non Motorised Planning and Design Guideline

The Non Motorised Transport Planning and Design guideline provides information covering planning, detailed design, implementation and management of cycle friendly infrastructure based on the context and limitation of Indian cities. The NMT planning and design guideline can assist as a tool for engineers and designers to help them think beyond perceptions and execute decisions on the basis of an analytical and detailed design process, relying on sound data and known best practices.

Evaluation Using Cycling Level Of Service (CYLOS) Tool

CyLOS is a web based tool to assist planners and designers develop an effective non motorised transport (NMT) infrastructure, which attracts both choice and captive riders. The objective of this tool is to allow planners, designers and decision makers easy access to objective evaluation of proposed and implemented projects. The availability of such data will direct attention and corrective action towards specific development, implementation and operation issues, resulting in a user appropriate infrastructure. Such efforts in the long term, when replicated across the city, would ensure better utility of investments made in non-motorized transport, generating higher use and better public image.

The sample program has been attached in Annexure 7.1.

4 Target Audience

The workshop comprised of participants ranging from municipal officials, government sector, private organisations, consultants - architects, planners, engineers, academicians, students, non government organisations and civil society working on cycling. The list of participants for all four workshops has been attached in the annexure 7.2



Figure 2: Target Audience

5 Findings

The presentation of the CYLOS tool included the introduction and use of tool on the web format. Mr. Sandeep Gandhi also included some case examples which illustrated how the output/results can be compared. This gave the audience an insight into use of tool to analyze context and design in their city and use it as an empirical evidence to assist in decision making. At the end of the session on CYLOS tool, the audience was asked to give feedback on the following:

- 1 Quality of visual and audio material.
- 2 Legibility and quality of communication.
- 3 Quality and quantity of the content
- 4 Your understanding of CYLOS tool + the know how to use it after the presentation.
- 5 Your understanding of NMT Guideline + its usability for NMT Planning
- 6 Your understanding of NMT Guideline + its usability for NMT Design
- 7 Your understanding of NMT Guideline + its usability for NMT Implementation
- 8 Usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure
- 9 Would you recommend the use of CYLOS tool in your organization?

Since the CyLOS tool is based on Planning and Design Guideline for Cycle Infrastructure, the forms also took a feedback of if the guideline provided adequate information for the user to understand the planning, design and implementation aspects of cycle infrastructure, which further assists the use of the tool.

A Sample feedback form has been included in Annexure 7.3.

5.1 Workshop 1 - Bhopal

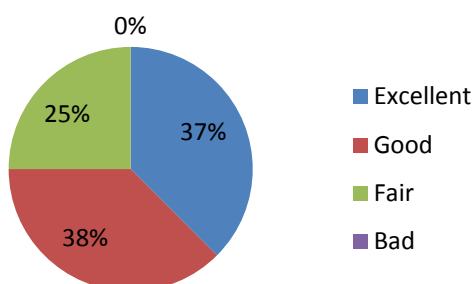
The first workshop was conducted in Bhopal, Madhya Pradesh. The findings from the participants' assessment of the quality and understanding of material presented during the workshop and about the relevance of the tool has been put together. 75% of the audience complemented to the usefulness of the tool and the majority would recommend its usage in their organisation. The feedback for the guideline has also been included.



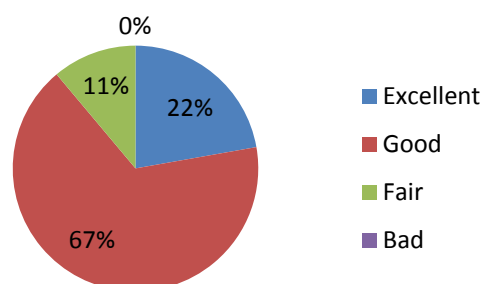
Figure 3: Bhopal, Madhya Pradesh

CyLOS Workshop Report

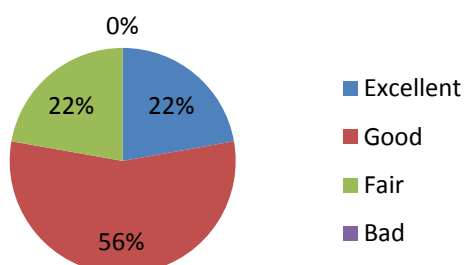
Quality of visual and audio material.



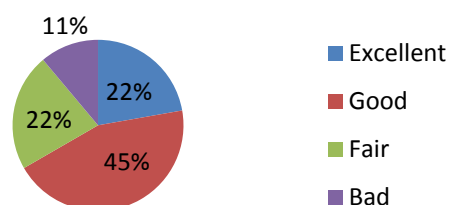
Legibility and quality of communication.



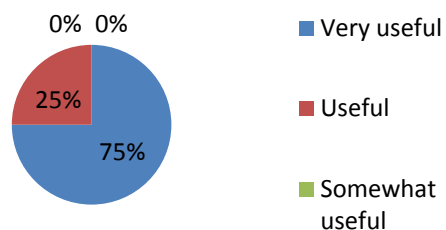
Quality and quantity of the content



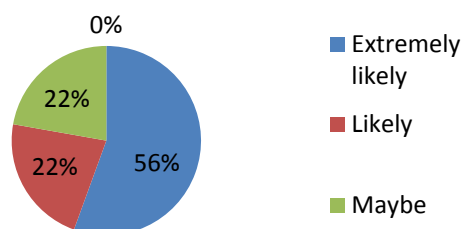
Your understanding of CYLOS tool + the know how to use it after the presentation.



Usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure

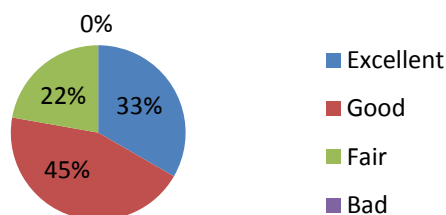


Would you recommend the use of CYLOS tool in your organization?

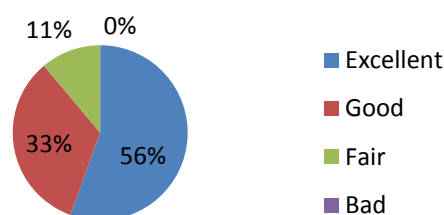


CyLOS Workshop Report

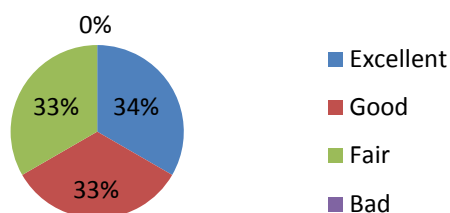
Your understanding of NMT Guideline + its usability for NMT Planning



Your understanding of NMT Guideline + its usability for NMT Design



Your understanding of NMT Guideline + its usability for NMT Implementation



5.2 Workshop 2 - Hyderabad

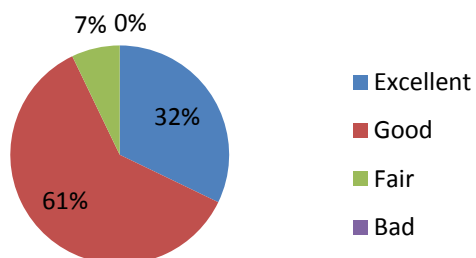
The second workshop was conducted in Hyderabad, Madhya Pradesh. The findings from the participants' assessment of the quality and understanding of material presented during the workshop and about the relevance of the tool has been put together. 74% of the audience complemented to the usefulness of the tool and the majority would recommend its usage in their organisation. The feedback for the guideline has also been included.



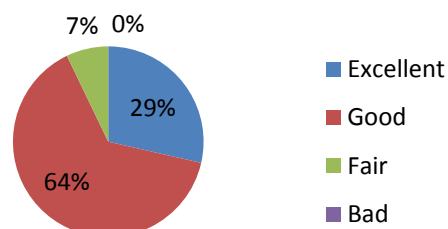
Figure 4: Hyderabad, Telangana

CyLOS Workshop Report

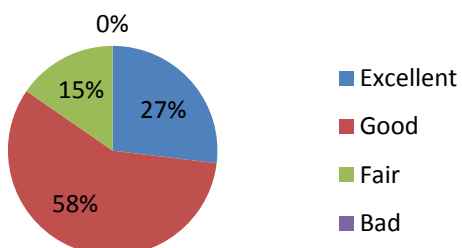
Quality of visual and audio material.



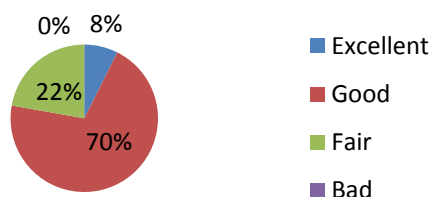
Legibility and quality of communication.



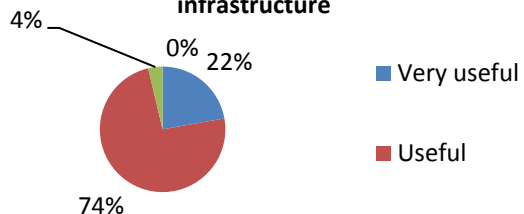
Quality and quantity of the content



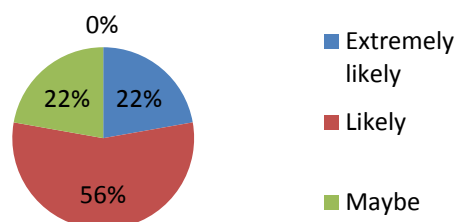
Your understanding of CYLOS tool + the know how to use it after the presentation.



Usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure

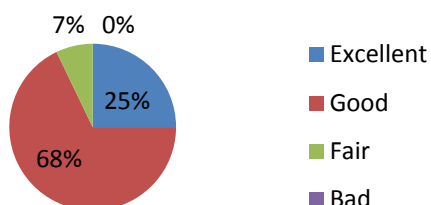


Would you recommend the use of CYLOS tool in your organization?

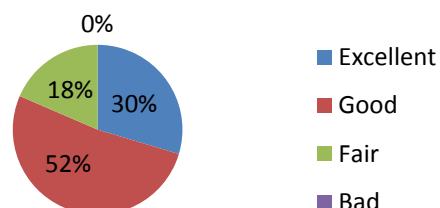


Planning and Design Guideline for Cycle Infrastructure

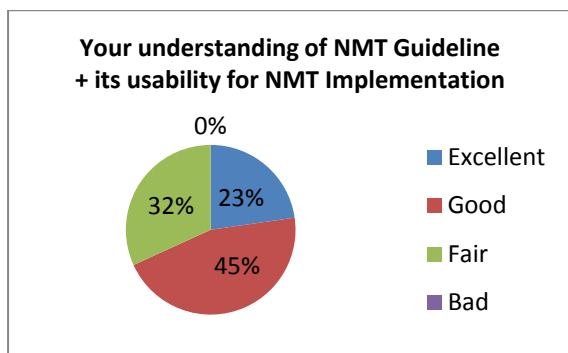
Your understanding of NMT Guideline + its usability for NMT Planning



Your understanding of NMT Guideline + its usability for NMT Design



CyLOS Workshop Report

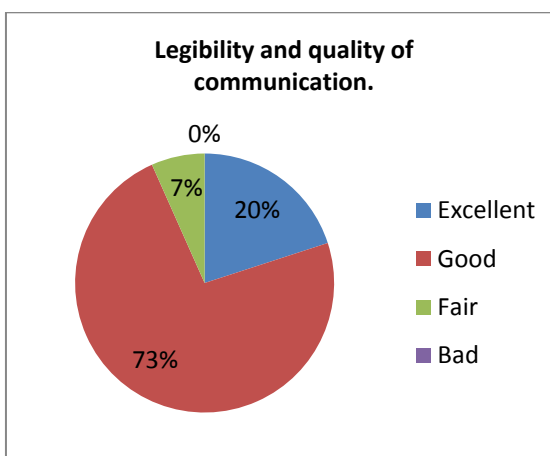
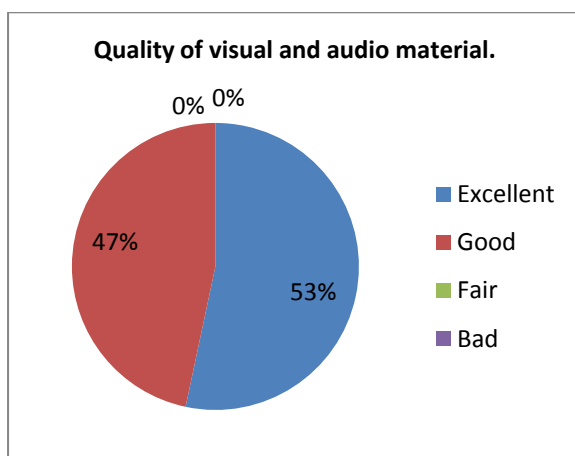


5.3 Workshop 3 – Chandigarh

The third workshop was conducted in Chandigarh. The findings from the participants' assessment of the quality and understanding of material presented during the workshop and about the relevance of the tool has been put together. The usefulness of the tool ranged between useful and extremely useful and the majority would likely recommend its usage in their organisation. The feedback for the guideline has also been included.

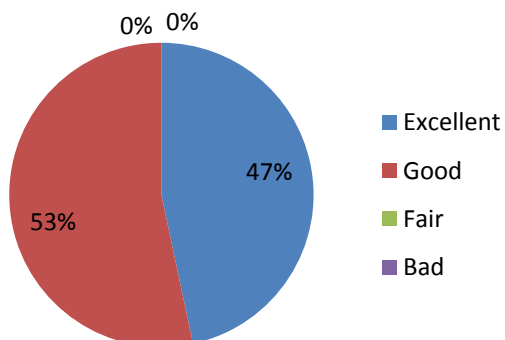


Figure 5: Chandigarh

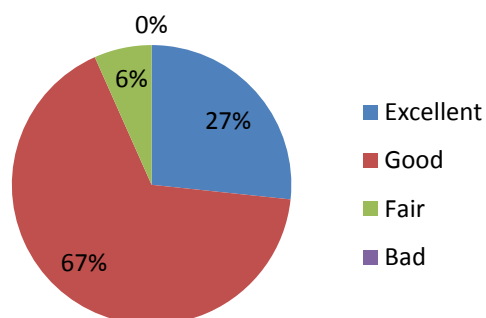


CyLOS Workshop Report

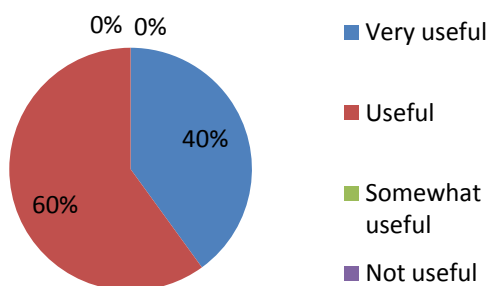
Quality and quantity of the content



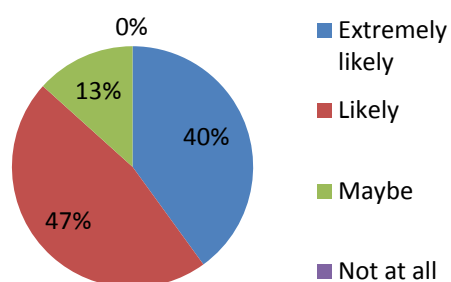
Your understanding of CYLOS tool + the know how to use it after the presentation.



Usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure

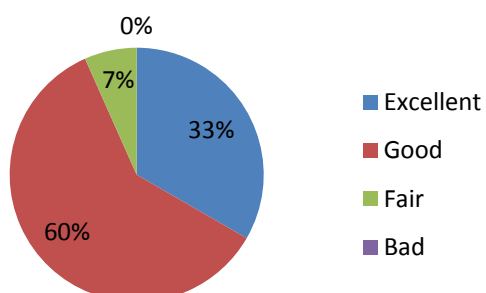


Would you recommend the use of CYLOS tool in your organization?

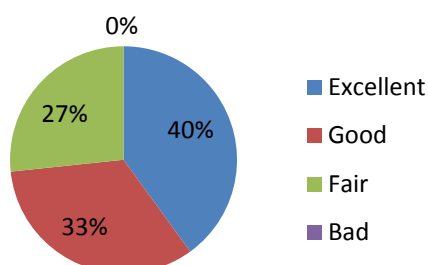


Planning and Design Guideline for Cycle Infrastructure

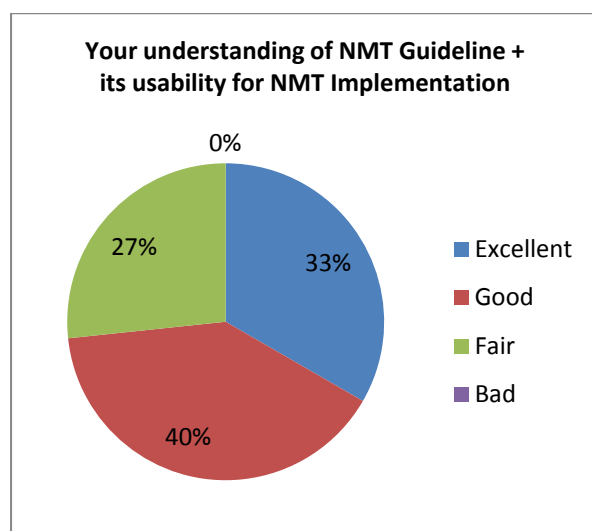
Your understanding of NMT Guideline + its usability for NMT Planning



Your understanding of NMT Guideline + its usability for NMT Design



CyLOS Workshop Report

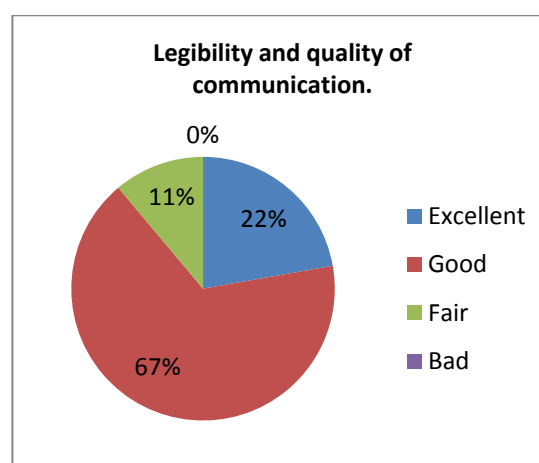
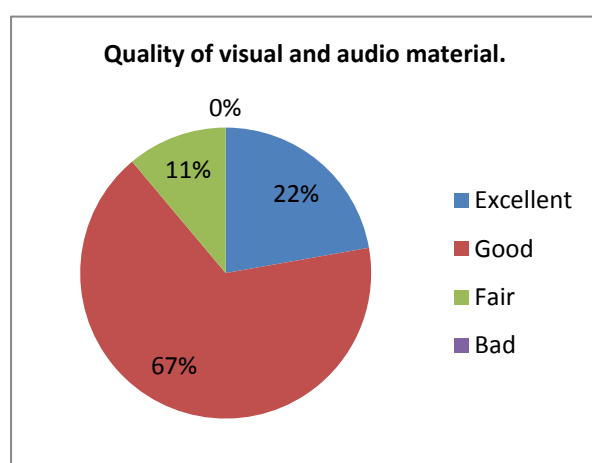


5.4 Workshop 3 – Guwahati

The final was conducted in Guwahati. The findings from the participants' assessment of the quality and understanding of material presented during the workshop and about the relevance of the tool has been put together. 78% of the participants found the tool useful and 67% would likely recommend its usage in their organisation. The feedback for the guideline has also been included.

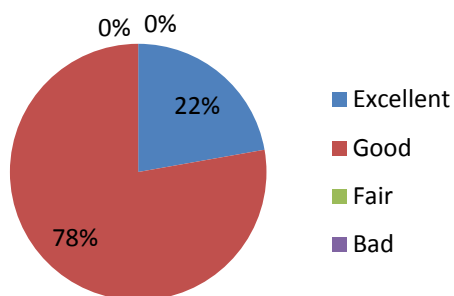


Figure 6: Guwahati, Assam

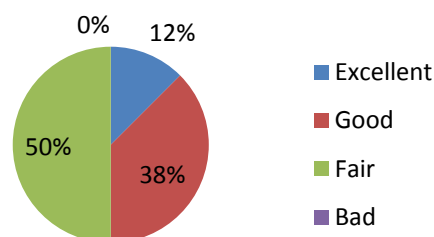


CyLOS Workshop Report

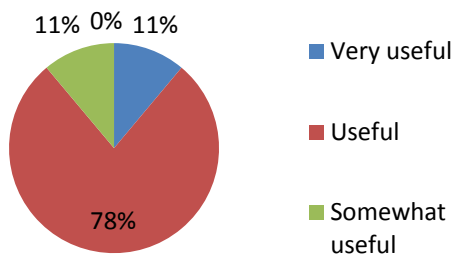
Quality and quantity of the content



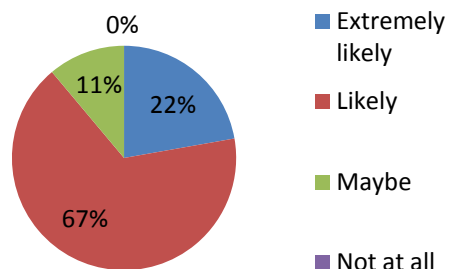
Your understanding of CYLOS tool + the know how to use it after the presentation.



Usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure

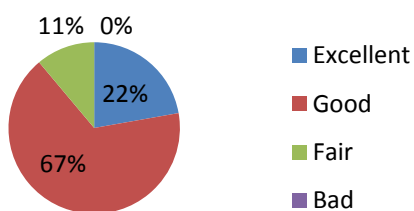


Would you recommend the use of CYLOS tool in your organization?

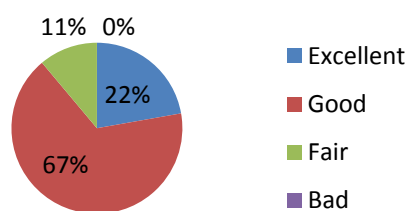


Planning and Design Guideline for Cycle Infrastructure

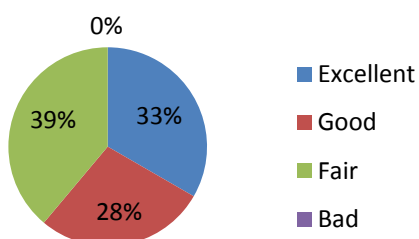
Your understanding of NMT Guideline + its usability for NMT Planning



Your understanding of NMT Guideline + its usability for NMT Design



Your understanding of NMT Guideline + its usability for NMT Implementation



6 Additional Comments

The participants were also asked to give their suggestions, comments on the CYLOS tool as well as comment on the inputs/parameters used & provide suggestions on the data generated by the tool. The comments received by the participants and our thirds party assessors are as follows:

1. The presentation was explanatory and rich in content.
2. The legibility and quality of communication in the presentation was coherent and simplified the complexity of cycle infrastructure into one tool.
3. Inclusion of more visual content was recommended.
4. Inputs/ parameters used are very good and measurable with least difficulty.
5. The tool is very useful and it gives a direct insight into how design and planning can be evaluated by non technical people through simple data collection and understanding of output scores.
6. Output results are informative.
7. The tool can help in auditing designs and save costs/ budget.
8. Web based platform assists in maximum outreach.
9. Strong recommendations were suggested to popularize the tool through workshops and awareness through training programs in academic institutions, municipal organizations.
10. As a measure to increase outreach, translation of tool into multiple languages was suggested so that the state agencies and municipalities can use them easily.
11. The tool could be enhanced if there was an output that reflects financial implications with change in design.
12. The score format can be changed to a scale of 1 to 10.
13. The output indicators currently are design based. One could enhance the tool by including more social and economical heads.
14. Knowledge dissemination of the guideline document should be taken up so that authorities can use CYLOS with a technical know-how.
15. Implication of certain aspects such as participatory planning approach or land distribution should be included in the guideline / tool. Currently, it is totally design based.
16. The guideline document is comprehensive and good and needs to be used effectively to get results on ground.
17. Implementation agencies, stakeholders involved should be identified in the guideline document.
18. Also, budget allocation should also be well defined.

CyLOS Workshop Report

7 Annexure

7.1 Annexure I – Program

Workshop on Sustainable Urban Transport - Policy, Planning and Design	
Timing	Session and speaker
09:30 am - 10:00 am	Registration
10:00 am-10:30 am	Welcome Note and Introduction
10:30 am-10:45 am	Tea Break
10:45 am-12:15 pm	National Urban Transport Policy-2006 <i>Ms Megha Aggarwal, Urban Transport Planner, IUT</i>
12:15 pm-1:15 pm	Non Motorized Transport in Urban Transport Policy <i>Prof. Geetam Tiwari, TRIPP IIT –D / Dr. Anvita Arora, CEO, iTrans</i>
1:15 pm-2:00 pm	Lunch
2:00 pm -3:00 pm	Planning & Design Guideline for Cycle Infrastructure <i>Ms Ruchi Varma, Urban Designer, SGArchitects</i>
3:00 pm-4:15 pm	Evaluation using Cycling Level Of Service (CyLOS) Tool <i>Mr Sandeep Gandhi, Principal Architect, SGArchitects</i>
4:15 pm-4:30 pm	Tea Break
4:30 pm-5:00 pm	Open Forum and Closing Remarks

CyLOS Workshop Report

7.2 Annexure 2

7.2.1 List of Participants – Bhopal

S.No	Name	Designation	Organisation	Phone/Mobile	E-mail
1	Megha Gupta	Urban Transport Planner	IUT	9818743077	meghaaggarwal@iutindia.org
2	Rosemerry	Consultant of UUVA		9960464430	
3	Shree Prakash	Convener	Urban Development Forum Indore (UDFI)	9406614800	samvadik@gmail.com
4	Dr. Amogh Gupta	Chief Architect		9425015111	
5	Dr. Anjan Nandy	Senior Associate		9425011564	
6	Shubhranshu Upadhyay	Architect Planner	Concept Architects	9826057186	shuyay@gmail.com
7	Manoj Sharma	Architect	Studio Plus	9303101076	studioplus67@gmail.com
8	Ravi Gadepalli	Program Manager	Shakti Foundation	9911628255	ravi@shaktifoundation.in
9	Satyapit Gangulay	Planner	S G Architects	88261085365	sga.satyajit@gmail.com
10	Jitendra Gurjar	Assistant Professor	Maulana Azad National Institute of Technology (MANIT) Bhopal	8989716185	jiten.manit@gmail.com
11	Sandeep Choudhary	Research Scholar	Maulana Azad National Institute of Technology (MANIT) Bhopal	7693042169	sc3973@gmail.com
12	Vikas Bhangale		Kastkari Jan NAPM. Andolan	9890336873	
13	Sanjeev Kumar	Urban Planner	SIDH	9039944606	sanju.spa@gmail.com
14	Ajay Borkar	Architect	AVB Associate	9893353539	avb300@yahoo.co.in
15	Anjani Kumar	Team Leader	Egis India consultants Pvt.	9956386759	anjanikumarlko@yahoo.com

CyLOS Workshop Report

			Ltd.		
16	Amogh Gupta	Architect	AK Gupta & Associate	9425015111	amoghkgupta@yahoo.co.in
17	Rahul Tiwari	Urban Transport Officer	UADD	9893044012	rahul.nitb@gmail.com
18	Alok Sahu	Manager	CIPET	7869955231	cipet.bhopal@gmail.com
19	Dr A.k. Nanda		CIPET	7869955235	cipet.bhopal@gmail.com
20	Kuldeep Singh	Sr. Reporter	Dainik Bhaskar	9926510865	
21	Ritu Das	Reporter	Dainik Bhaskar	9893050628	
22	Ajay Pratap	Researcher	Maulana Azad National Institute of Technology (MANIT) Bhopal	9425014998	ajayp533@gmail.com
23	Shilpa Baburaj	Correspondent	Times of India	7797868164	shilpababuraj@gmail.com
24	Vishal Bhambai	Reporter	Maulana Azad National Institute of Technology (MANIT) Bhopal	9425016887	vishalb@gmail.com
25	Samarath Sharma	Architect	Studio Plus	9907771076	urban.arch.samarth@gmail.com
26	Dr. Anvita Arora	MD & CEO	I-Trans	9899647773	anvita@itrans.co.in
27	Ruchi Varma	Urban Designer	SG Architects	9891729290	ruchi.sga@gmail.com
28	Rakesh Mehar	Faculty	Maulana Azad National Institute of Technology (MANIT) Bhopal	8989119816	rakeshmehara06@yahoo.co.in
29	Dr. Anuj Jaiswal	Faculty	Maulana Azad National Institute of Technology (MANIT) Bhopal	9893051635	jaiswalanju10@gmail.com
30	Ritesh Patil	Jr. Transport Officer	UADD-Bhopal, GoMP	8103383045	riteshpatil@gmail.com
31	Sumit Gothi	Architect Planner	Sumit Gothi Asso.	9425007678	sumitgothi@yahoo.com
32	VB Arora	Engg.	Egis -	9410392414	vbanoida@yahoo.com

CyLOS Workshop Report

			International		
33	Vikas Teotia	Manager	Creative Wings	9910317060	vikasteotia86@gmail.com
34	Rajiv Choudhary	Sr. Researcher	Studio Focus		rajiv.cho8@gmail.com

7.2.2 List of Participants – Hyderabad

S.no	Name	Designation	Organisation	Phone/Mobile	E-mail
1	Sampurnanada Mahapatra	Town Planner Asst.	Directorate of Town & Country Planning	7675921258	sampurnteam@gmail.com
2	A.S. Chaitanya	Town Planner Asst.	Directorate of Town & Country Planning	9160227333	asc.val3@gmail.com
3	Vinay Bandari	Project Coordinator	Indian Youth Climate Network	7799047312	vinaybandari43@gmail.com
5	G. Swapna Reddy	Town Planner Asst.	Directorate of Town & Country Planning	9959156454	swapnagangidi@gmail.com
6	D. Santhilatha	Town Planner Asst.	Directorate of Town & Country Planning	9866200512	arshanthilatha001@gmail.com
7	Sharat Pillalamarhi	Urban Specialist	CRISK India Ltd	8008759955	Sharat.pillalamarti@crisk.com
8	Lokesh Hebbani	Trans. Program MGR	IISC, Bangalore & World Bank	9535097356	hlokes@hotmai.com
9	V. Narendar Rao	ADDL GHMC	GHMC	7702775282	planner.narender@gmail.com
10	G. Surya	EPTRI Head	EPTRI	9000878723	
11	Sneha Kairaju	TPA	DICP	9963480140	sneha.kairaju@gmail.com
12	Sreenivas	Transprot Engineer	ECLAT	9963006335	
13	Jency Samuel	Civil Engineer	CSI	9884031052	jencysamuel@gmail.com

CyLOS Workshop Report

14	M.K. Prem Kumar	Asst. Director	DT & CP	9963342444	premkumarmogili@gmail.com
15	Chandar Kumar Yadav	Trans. Engg.	HMDA	9701433940	Chandrakumaryadav.jala@gmail.com
16	Dr C. Ramachander	Faculty	CESS	9440035405	
17	S Dinesh Reddy	WWF APSO Intern	WWF- APSO	9676772778	dineshtheplasma@gmail.com
18	P.N. Rao	ECM	ECM	9391207618	
19	A.R. Niroop	Manager (Urban)	ICLEI-SA	9985303190	niroop.abbu@iclei.org
20	G. Nagendra Prasad	DY CTH /	ADSRTC	9959225448	gnprasad99@gmail.com
21	Visweswara Rao	Associate	IBI Group	9553577555	visweswara.rao@ibigroup.com
22	P. Ranjith	Transport Planner	ICLEI	9188513500	
23	S. Raghunatha Swamy	Joint Chief Environemtn Engineer	APPCB	9866776726	irswamy1960@gmail.com
24	K. Geeta Sharmila	Interior Designer		9666727374	geetavarma21@gmail.com
25	P.A.S.M.L Rao	Joint Director	Directorate of Town & Country Planning	9849908980	pararalar@yahoo.com
26	S. Gandhi	Principal Architect	SG Architects	9811081711	
27	Manoj Kumar Handapati	Transport Planner	HMDA	9985556159	mandapatimanoj@gmail.com
28	M Bharath Bhushan	Secretary	CARPED	9000677292	mbbhushan@gmail.com
29	M. Bhavawi Rani	Asst. Director	Directorate of Town & Country Planning	9703345007	bhavanirani@gmail.com
30	Suresh Raju		Vaada Foundation	23556690	

CyLOS Workshop Report

31	K Venkata Rastogi	P.O.	CPREEC	9440285120	
32	Sridhar	Dy City Editor	Bangalore Mirror	9341126214	
33	K. Koteshwara Rao	Town Planner Asst.	Directorate of Town & Country Planning	7382335889	koti.arch98@gmail.com
34	Kanti Kannan	Activist	The Right of to walk	9394508384	
35	G. Neelima	Town Planner Asst.	DTCPO	7702901212	neelima.gadicherla@gmail.com
36	P. Rama Krishnan	Asst. Prof	Ashoka Institute of Tech	9985218282	ramsagar.p@gmail.com
37	Yogesh Mishra	Spcl Correspondent	Metro India	9826126054	yogesh@metroindia.co.in
38	C. Prashant	Transport Planner	HMDA	8142006966	sujita@parisar.org
39	Sujit Patwardhan	NGO	Parisar	9822026627	sakethreddy49@gmail.com
40	Saketh Reddy	NGO	WWF	9493938844	
41	Madhu Kinawr Tayi	Traffic Engineer	India Ltd.	8978118943	
42	V. Susheela Devi	Dy Director	Directorate of Town & Country Planning	8008889297	
43	Dr Anvita Arora	CEO & MD	I-Trans	9899647773	
44	Parvesh Sharawat	Head (Innovation)	I-Trans	9910065499	
45	Ruchi Varma	Urban Designer	SG Architects	9891729290	ruchisga@gmail.com
46	Vishala	Founder Director	Ideal City	8142002009	vishalaraddy2020@gmail.com
47	Dr. DT Vinod Kumar	Architect	T.A.A.	9393326125	

CyLOS Workshop Report

48	Dr A. Vijay Kumar	Architect	T.A.A.	9848372789	avkarchi@gmail.com
49	Maheep	Urban Planner	ADAPT	9885016156	maheepthapne@yahoo.com
50	N.S. Prasad	Regional Coordinator	IYCN	8096254532	nsparasad@iycn.in
51	K. Nayeemulla	Dy Chief Engineer	R&B Dept.	9440818010	nayeemulla@yahoo.com
52	M.N. Ram	Asst. Director	Town Planning Dept.	8897723423	ramulnnan@gmail.com
53	Rohit	Architect	IMM Design Lab	7406079166	
54	D. Chiranjeev	HMDA	HMDA	8008288094	chairanjeevaenary@gmail.com

CyLOS Workshop Report

7.2.3 List of Participants – Chandigarh

S.no	Name	Designation	Organisation	Phone/Mobile	E-mail
1	Rajendra Ravi	Director	Institute for democracy and sustainability	9868200316	rajendraravi1857@gmail.com
2	M.L. Dhamik	Deputy Transport	Transport Dept.	9466155083	
3	Navesh Kumar	Asst. Transport Planner	Dept. of	9417781170	naresh@gmail.com
4	Prasoon latant	Sr Reporter	Jan Satta	9958103129	prasonlatant@gmail.com
5	N.k. Jhingan	Secretary	Environment Society of India	9417004937	nkjhingan@gmail.com
6	Paramjit Singh	PIG Draftsman	Dept for Urban Plg	9888080439	paramjit@gmail.com
7	Arti Gupta	State Coordinator	WWF - India	9418347479	agupta@gmail.com
8	Sushil banjade	Correspondent	Eco Magazine	7417725350	sushilbanjade@rediffmail.com
9	M.A. Siddiqhi	Burea Chief	Raj Sahara	9911593786	editor@rajsahara.in
10	P.K. Kaushal	Director Plg	Planning	9876451855	kaushalpardeep@yahoo.com
11	Gurpreet Singh	Sr Tower Planner	T & C.P. Punjab	9779171117	gpreet_13@hotmail.com
12	ER. Sanjay Arora	XEN	CHD. ENGG. Dept.	9915711456	cp2division@gmail.com
13	Er karam	SDE	CHD. ENGG. Dept.	7508185422	erkchand@gmail.com
14	Er. M.L. Shaye	XEN		9888734023	msahye1958@gmail.com
15	Sandeep Gandhi	Chief Architect	SG Architects	9811081711	gandhisandeep@gmail.com
16	Sheeraj Batish	Sr Manager	Science City	8146947629	sheeraj_batish@gmail.com
17	Ms Savita Rana	Coordinator	Voluntary Health Association of Punjab	8968351760	rsavy@gmail.com
18	Harvinder	S.D.E.	Engg. Dept.	9888008763	harvinder_1955@yahoo.com

CyLOS Workshop Report

	Singh				
19	K.L. Singh	Vice President	ESI	9417605029	klsingh@gmail.com
20	Arjeet Singh	Executive Engineer	Municipal Corp.	9872511138	arjeet.nicc@gmail.com
21	Prem Paul Sh	SDE	UT Press Dept.	7508185530	ppaulsingh@gmail.com
22	Rajat	Architect	SGA	8802371835	
23	Arjun		GASM	9592771350	mail@arjunsheoo.com
24	Irrah Mufti	Correspondent	Indian Express	8427718017	ifrahmufti21@gmail.com
25	Mukund Mitr		Aaj Samaj	981477655	mukundmitr@gmail.com
26	Prem Paul Sharma	Executive Engineer	CMD Admin	75081854413	ppaul1956@gmail.com
27	Parveen			9872866966	parveen_3379@yahoo.com
28	Dinesh Goyal	Sr Correspondent s	ETV News	9815288544	dinesh45goyal@gmail.com
29	Pooja Goyal	Reportor	Punjab Kesari	8054532675	poojagoyal1803@gmail.com
30	Navdeep Asija	Ecocabs	Founder	9803152123	navdeepasifs@gmail.com
31	Harman Sidhu	President	Arrive Safe	9872217543	
32	J.S. Randhawa	DDN	AIR	9417279847	newsairch@gmail.com
33	Pritam Roy	NRT	AIR	9417192623	
34	Rishi Kumar	Sr Correspondent s	Dainik Jagran	9729058479	rishikumar@gmail.com
36	Sumit	Dy Director	Dept of Planning	9814911363	sumit1363@yahoo.com
37	Neha Agarwal		Delhi	9910068014	
38	Anil Sharma	SDE	Engg. Dept.	9508185570	
39	Raj Kumar Sharma	ME	M.C. Panchkula	9416188848	rajkumarpk2@gmail.com
40	Mahesh Sharma	Engineer	C/o M.C. Panchkula	9467671772	sharmamahesh286@gmail.com
41	Trilochan Singh	ADO		9888903184	trilochansingh@gmail.co.in

CyLOS Workshop Report

42	Mukesh	Asst Comm	M.C. Mohali	9988800123	mukeshac@hotmail.com
43	VK Goyal	Senior Tower Planner	UT CHD	9915805621	stputch@gmail.com
44	Gurraram Dutt	SDE	M.C.	9972511225	
45	Ramesh	SDE		987264082	
46	Sanjan Rai	Editor Ishan Times		9814826555	
47	Brijesh Sharma	Sr Correspondents	Ishan Times	9888909348	brijeshsharma@gmail.com
48	Kamlesh	Photographer	Ishan Ex	9815608129	
49	Sanjay Pasricha	Architect		9814655763	acearchitects@gmail.com
50	Bhawna Garg	Secretary	Transport, Chandigarh Administration	0172 2740045	ssf-chd@nic.in

7.2.4 List of Participants – Guwahati

S.no	Name	Designation	Organisation	Phone/Mobile	E-mail
1	Tanaya Deka Sinha	Asst. Proffessor	Royal School of Architecture	8822896968	artanaya.dek.sinha@gmail.com
2	Shyamanto Bezbarua	EEPWD NH	PW (Bldg & NH) Dept.	9435169928	sbezbarua@rediffmail.com
3	Kulajit Dutta	Photo Journalist	UB Photos	9577229262	kulajit.dutta3@gmail.com
4	Dr Abhijit Sharma	Asst. Proffessor	IIBM	9435014109	a.sharma@gmail.com
5	Musfiaur Rahma	Joint Director	I.W.T. Assam	8435118058	mrahman26@rediffmail.com
6	Pankaj Gogia	EE. IWT	I.W.T. Assam	9864374646	
7	Nagen Kahla	S.E., T&CP, Assam	Town and Country Planning, Assam	9435730971	kalitanagen@gmail.com
8	J.C. Handique	Dy. Commissioner	Commissioner of Transport,	9435017043	jchandique@gmil.com

CyLOS Workshop Report

		Of Transport	Assam		
9	D. Bezbaru	Dy Director T & CP	Town and Country Planning, Assam	9435031895	dbeziit@gmail.com
10	Dhwajender Nath Dua	Add. Chief Env. Engineer	Pollution Control Board, Assam	9435358956	duajender@gmail.com
11	Gunadhar DM	Asst. Comm. Of Transport	Commissioner of Transport, Assam	9435024843	gunadhar.dm121@gmail.com
12	Arvvabha Banerjee	PhD Student	IIT Guwahati	7896888895	aruabhabanerjee77@gmail.com
13	Subhash		CRO	9954077356	
14	Himadlee Phooka	Research Associate	AIM	9864026549	himadleeya1@yahoo.com
15	Rajendra Ravi	Director	IDS	9868200316	rajendraravi1857@gmail.com
16	Arti Choudhary	PhD Student	IIT Guwahati		arti@iitg
17	Mrs Rimi Sinha	Faculty ACE Dept.	RGI, Guwahati		rsinha887@gmail.com
18	Nabeenita Barual	Faculty ACE Dept.	RGI, Guwahati		nabeenitabarual856@gmail.com
19	Durga Gojoi	MVI D.T.O.	Transport	9435058631	
20	Debangshu Dutta	MVI	Transport Dept.	9435070065	
21	AR Nishita Kedia	Asst. Prof. Royal School of Architecture	RGI, Guwahati	9435569480	nishita.kad@gmail.com
22	B. Choudhury	Dy Director	I.W.T. Assam	9435191263	bikramadityachoudhary@gmail.com
23	A. Bordstri	Prog. Director	Action Aid	9854946409	anjanbordstri@yahoo.co.in
24	B. E. Bakshi	S.E. PWD	PWD	9435054756	bipulpwd@gmail.com
25	K.N. Chetia	MD, Assam State Transport Corp.	Transport Dept.	9864027155	ASTC@gmail.com
26	Kabir kumar	Sr Fellow Action Aid	Action Aid	9435123751	kabirkumar@gmail.copm

CyLOS Workshop Report

27	Akshay Jain	Student	TISS	9795515667	contact.jainakshay@gmail.com
28	Pranjal Barman	Student	TISS	9613495347	pranjal.manipal@gmail.com
29	Ankita Ranjan	Student	TISS	7896555905	ankitaranjan10@gmail.com
30	Mamatha Prasad	Student	TISS	9401979688	mamatha.rp@gmail.com
31	Abhinandan Saikia	Asst. Proffessor	TISS	9954116699	asaikia77@gmail.com
32	Kushal Ch. Hazarika	Dy Commissioner Transport	Transport Dept. Assam	9435024447	kchazarika935@gmail.com
33	Rasib Borgohain	Executive Editor (Delhi)	The Assam Post	9707336056	rajibborgohai979@gmail.com
34	B. Goswami	Communication Officer	C-WES	9706045571	bgoswami@yahoo.co.in
35	Dhruba Baruah	Press	Janasadharan	9435603515	dhrubabaruah26@gmail.com
36	Anuj Budhkar	PhD Student	IIT Guwahati	8011957121	anujbudhkar@gmail.com
37	Nama Suresh	M.Tech	IIT Guwahati	9085301205	nsureshce@gmail.com
38	Dhimeh Bosh	S.G.B.G.		9435404677	
39	S. Bhattacharjee	JSO	ASCEC	9864037296	
40	Amarjyoti Borah	Sr Journalist	DTE, CESPEN	9864980629	amarjyotiborah@gmail.com
41	Dr Hreeshi Agarwal	Professor	AIM	9864268536	mreeshi_agr@yahoo.co.in
42	Sandeep Gandhi	Principal Architect	S G Architects	9811081717	gandhisandeep@gmail.com
43	Shilpa	Project Assistant	Shakti	84476036025	shilpa@shaktifoundation.in
44	Gayatri Baruah	Researcher	AIM	8721075872	gayatribarmah84@gmail.com
45	Silpirekha Pandit	Asst. Professor	Guwahati College of Architecture	8724094321	silpi.rekha@gmail.com
46	Partha Thakuria	Lecturer	Guwahati College of Architecture	9706069756	parhabrahmaputra@gmail.com
47	Anupama Deka	Reporter	Amar Asom	9959190580	anupama.deke@gmail.com
48	Suman Barmah	Staff Reporter	The Assam Post	9706682603	barmahsuman@gmail.com

CyLOS Workshop Report

49	M.M. Bora	Sr Enviroment Engineer	Pollution Control Board, Assam	9957568706	mbmukul1@gmail.com
50	Pranab Jyoti Goswami	SP (Traffic)	Assam Police	9435025425	ssp-guwahati@assampolice.gov.in

CyLOS Workshop Report

7.3 Annexure 3 – Session Feedback Form

Evaluation using Cycling Level Of Service (CYLOS)

FEEDBACK FORM (Please tick one)

1. Please rate the quality of visual and audio material in the CYLOS presentation

Excellent	Good	Fair	Bad
-----------	------	------	-----

2. Please rate the legibility and quality of communication in the CYLOS presentation

Excellent	Good	Fair	Bad
-----------	------	------	-----

3. Please rate the quality and quantity of the content in the CYLOS presentation

Excellent	Good	Fair	Bad
-----------	------	------	-----

4. Please rate your understanding of **CYLOS tool** and the know how to use it after the presentation

Excellent	Good	Fair	Bad
-----------	------	------	-----

5. Please rate your understanding of **NMT Guideline** and its usability for NMT Planning, design & implementation.

Planning	Excellent	Good	Fair	Bad
Design	Excellent	Good	Fair	Bad
Implementation	Excellent	Good	Fair	Bad

6. Please rate, usefulness of CYLOS tool in the evaluation and audit of NMT infrastructure

Very useful	Useful	Somewhat useful	Not useful
-------------	--------	-----------------	------------

7. Would you recommend the use of CYLOS tool in your organization?

Extremely likely	Likely	Maybe	Not at all
------------------	--------	-------	------------

8. Please provide suggestions, comments and feedback on CYLOS tool.

--

9. Please provide suggestions, comments and feedback on NMT guidelines

--

10. Please comment on the inputs/parameters used & provide suggestions on the data generated by the tool

--

Name:

Designation:

Organisation:

Email id:

Sign: