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Criterion 3

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Key Indicator 3.3 Research Publications and Awards



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Website- www.abcasangli.edu.in Affiliated: Shivaji University Kolhapur

Principal: - Dr. Arundhati P Wategave Ph.D.

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 Number of research papers in the Journals notified on UGC website during the year

Number of research papers in the Journals notified on UGC website during the year = 1



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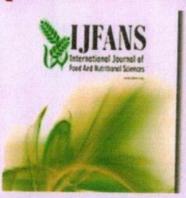
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To identify the qualities of Neighbourhood Main StreetasSocialStreet:PanchamukhiMarutiMarg, Sangli (Maharashtra), India

Dr. Arundhati Wategave Architect and Urban Designer and Principal, AppasahebBirnaleCollegeofArchitecture,Sangli(Maharashtra)

Abstract. As number of cities around the world have realized that the encroachment of street by the automobiles is weakening the quality of life and the liveliness of the use of public spaces, so that there is a need to help the streets to perform their functions where people can walk, talk, and perform multitude of social functions, accordingly making cities healthier. Manychangeshavetakenplacerecentlyinthesociallifeofpeople, as mostofthetimesocial interactions occur at the destination rather than during the trip, and the telephone call exchange the chat on the doorstep. After some period, social lifemay be eroded by emphasis on a culture of privacy, and the bipolar life of work and home. Now its need to think about making better places for people at Neighbourhood level. Neighbourhood Main Street exists to meet people's daily needs and needs over a life time. To support healthy life choices, Neighbourhood Main Street can play a role of Social Street where people can have economic, social, cultural exchange and associate with the quality of public life.

To identify the qualities of Neighbourhood Main Street as Social Street the researcher had taken a case of Neighbourhood Main Street in Sangli, Maharashtra, India. Mixed method strategy has been applied which includes qualitative and quantitative methods of inquiry to collectandanalysethedata. Afteranalysingthedata,ithasbeenconcludedthatincontempo- rary also people are interested to use the street as social space if we provide the qualities of sociability of street which has been identified.

Keywords: Neighbourhood Main Street, Social Street, qualities of social street, street associal space

I. Introduction

Streets - Streets rank among the most treasured assets in any city, they not only for movement, allowing them to travel from one place to another, but also streets are places for people to meet, interact, and involve in variety of activities. Streets stand- in social and economic bonds, bringing people together. [1]

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Traditional Indian streets - Streets in Indian cities can hardly be networks of circulation. Most activities, including living, occur or extend into the streets. Streets of the old cities are always full of the jostle of hawkers, festivities and procession. In the residential neighbourhood, streets are an extension of the veranda, or living spaces. On its streets, people eat, works, sleeps, moves, celebrates and worships'.

ContemporaryIndian streets -Streetshave cometofunctionlessassocialgatheringspaces and market areas and are more as conduits for an ever-increasing volume of traffic. Struggle to bring together the competing needs of mobility and liveability. Private motor ownership grows and government attempt to house the additional vehicles. City Street has become in some cases a place of danger for citizens, so that it forces people to stay within their privacy of their home. Many changes have taken place recently in the social life of people. Now the housewife's role has changed and she may be the employee and head of a single parent family or a co-working family spouse. Now a day's more trips are made by cars to the supermarket, the school and relaxation outings etc. Most of the time social interactions occur at the destination rather than during the trip, and the telephone call exchange the chat on the doorstep.

It can be supposed that for the next 10- 20 years the private cars will remain principal means of urban transport and that city planning must come to terms with that attitude. After some period, social life may be eroded by the emphasis on a culture of privacy, individual relaxations in the private realm, and the bipolar lifestyle of work and home. All these are social troubles. Such kind of lifestyle tends us to satisfy our needs for leisure and information in the private realm and when public space in cities is shrinking and transforming into privatized public realm as a result of fear (Ellin, 199), the neighbourhood commercial street provides an open neutral terrain that is a key quality of public space. (Tiesdell and Oc, 1998)^[2]

People still like to stay in their community. They may be not as close as in the past, but togetherness is preferred. On the other hand, recent planning practice cannot be viewed as suitable for its time. There must be reforms on the basis of extensive observations and learning's from the old settlements.

Social Street – Pedestrian movement is complete with the idea of street as social space and there is an interdependent relationship between pedestrian movement and economic, social and cultural exchange and transactions. 'street' as both social space and as connecting rather than separating elements within cities, highlighting the association of streets with quality of public life. [2]

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Social Street is defined as a street that is exposed to public, where people are present throughout the day and week, engaged – individually or in groups – in a variety of active and passive social behaviours that are predominantly static and sustained in nature. Social streets where neighbourhood residents, visitors, workers and people who call the street their home use the streets for abundant purpose for socializing, every day and special shopping, dining, lingering, promenading, celebration, protest and survival. ^[6]

NeighbourhoodMainStreet- Qualitiesofthestreetareasfollows

- 1. Neighbourhood Main Street exists to meet both people's daily needs and needs over a life time. To meet these short and long term needs and to support healthy life choices, Neighbourhood Main Street needs to include a wide variety of land uses.
- 2. Neighbourhood Main streets are places where all daily need can be met by walk. With the design of neighbourhood Main Street as Social Street, people will prefer to meet their daily needs on foot. The incentive to walk on a neighbourhood main street is the presence of diversity of stores, like a newspaper stand, coffee shops, food stalls, community spaces and other variety of commercial land uses.
- 3. "Third Places" is term coined by Robert Oldenburg. He defined these locations as those outside of home and work and open to the general public where people casually gather on the consistentbasis. Thirdplaces are must have on the neighbourhood.
 have on the neighbourhood Main Street for a complete neighbourhood.

Because of the above qualities Neighbourhood Main streets generate prospects for neighbours and strangers to meet and participate in variety of activities. Neighbourhood Main Street provide predictions for a range of social interactions as a part of the daily life, possibly strengthen a sense of community.^[6]

When public in cities is reducing and transforming into privatized pseudo- public realm as a result of fear (Ellin, 1999), the neighbourhood commercial street provides an open unbiased territorythatisthekeyqualityofpublicspace(TiesdellandOc,1998).Local MainStreet can be an advantage to the local economy; they can reduce the dependence on the automobile, and having destinations in the neighbourhood that can be reached on foot. [2]

NotonlyforMega cities, isit necessaryto revive smalltownsaseconomic, socialand cultural centers. There is an eed to build next generation cities on the basis of density and walkability. So, for whole Urban India from small towns to Mega cities, there is a need to focus on design of Neighbourhood Main Street as Social Street.

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II. Methods, Analysis and Findings-

2.1 Mixed Method strategy - strategy applied which consists of both qualitative and quantitative methods of inquiry to collect and analyse the data. Qualitative and quantitative data were collected simultaneously and merged during the analysis phase to add the dimension to the findings. Primary objective of this study is to determine qualities of Neighbourhood Main Street which supports necessary, Lingering and social activities. As a part of mixed method strategy, the inquiry involved a variety of techniques, including direct observation (field notes and photographs), walk by observation, and self-administered question naire survey to collect the data of activities of people on the Neighbourhood Main Street.

Direct observations and field notes - I observed the study area from October 2015 to May 2016 and recorded activities and behaviour of users on the street excluding rainy season. In addition, photographs and short videos were utilized to record behaviour pattern. Through direct observation I recorded the activities under different categories by which I got the answers of what was done on the street, where and when was it done, who did it, how and why. Thus, direct observation provides the main body of information on human behaviour in the study area.

Through direct observation Irecorded the activities encountered by the people on the street at different time interval as well as at different locations. I made direct observation on street at different time randomly and noted all the activities and interactions, which further help in the method for activity mapping to record the count of people engaged in different activities at different time at different locations.

Walk by observation /Activity mapping - is used to record necessary, lingering and social activities happening on the street. I slowly walked past the complete length of each block in the study area and recorded the activities in which the people are engaged.

Walk by observation was recorded on the street consisting of a detail of male, female, in number in a particular time per hour from morning till late evening. Activities are recorded accordingtofouragegroupssuchasadults, younger, oldageandchildren, distributing intwo zones, frontage zone and pedestrian zone. Actually, there is no such segregation of zones on the street. All activities are happening anywhere randomly. In most cases, the walk by observations of all the blocks within a study area were conducted continuously at one end of the study area to the other end.

Unit of study - Data collected at two level street block and block segments. Length of the streetforstudyareaisrangedfrom150.00m-200.00m. The Streetwas underdevelopment

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which includes widening, street lighting, etc. The street doesn't have segregation of pedestrian and vehicular zone.

Through observation I identified the zones according to the activities happening on the street are as follows- Frontage zone - is along the edges of the buildings and was essentially usedforenteringandexiting, windowshopping, standing, and leaning on the building façade, talking on mobile phone, for decision making, talking while standing before entering or after exiting from the building.

Pedestrianzone-Onthestreetequaltopedestrianmovement, peopleare equally involved in social activities such as drinking, talking, eating, sitting, standing, socializing, etc. Actually, all activities are overlapping with each other. Even vehicular movement dominated the pedestrian movement.

Procedure - Activity mapping - Purpose is to understand the relationship between the physical setting and people's behaviours (social interactions) - to examine how people use the street. It provided information on what people did on the street, where they walk, sit, stand, gather, socialize and what facilities they use, either as a part of their daily functional activities and for recreational activities.

Observation period - Data is collected on days from October 2015 to May 2016. Observations were carried out between 7.00am -10.00pm spread out on weekdays and weekend. Sunday is the only weekend considered in this context. Block and block segments surveyed randomly. Length of the street for study areais rangefrom 150.00m to 200.00m both sides of the street blocks are taken into consideration for activity mapping.

III. Samplesize-

Total sample used was to interpret the results obtained from walk by observation comprises of the users of the street like common users, shopkeepers, street vendor owners and people using vehicles. The sample size is taken around 5% of the street populationobservedduringwalkbyobservationinthetimeperiod7:00am -10:00pm. Population of the street is heterogeneous and unknown; hence variability is unknown.

Table2.1 Samplesizeby populationby walk by observation

Street Popula tion	tionbywalkbyobserva-	5%ofpopulationofwalkbyobso	erva- tion Sample
PMM	4187	209	215

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Self-administeredquestionnairesurvey-Thismethodistoprovideindepthinformation to help to understand the user's feelings, perceptions and attitudes towards the street environment that are being observed. The method includes residents, shopkeepers, street vendorswho actually used the Neighbourhood Main Street on regular basis.

Itisan instrumentusedto reinforceandconfirmthefindings fromtheobservations.

Design of questionnaire - The questionnaire is designed to obtain information on why users used neighbourhood Main Street. This included user's perception, attitude and other uses on thestreet. What aretheirneeds? What they feel? How the street should be? Why they use this street etc.

Sampling-Samplingdoneinthreecategoriesofusersusing thestreet which includes

Table2.3Samplesizefordifferent users

Street	Common user	Shopkeeper	Streetvendorowner
PMM	54	19	06

Expert's Opinion-Traffic officer-04 Townplanner-03

Activitymapping, directobservation, photographs revelled that people interacted with several characteristics of the street that supported the activities of people. These qualities are often physical characteristics, but they also involved the type of businesses on the street and how these businesses and the street space are managed and operated.

This is followed by self-administered questionnaire survey of users of the street. Together they provided a body of information for qualities of street that contributes for people's activities on Neighbourhood Main Street.

Traffic and transport survey - As vehicular traffic began to increase, the congestion on the street began to hamper the safe and efficient movement/activities on the street. More and more accidents were caused and serious problems of parking began to be felt, what observe through the questionnaire survey and observations. To find out the problem regarding safety and and security, congestion, encroachment of vehicles on pedestrian and frontage zone O-D Survey and Parking Survey were conducted

Origin and Destination survey (O- D Survey) - survey was conducted to know the exact originanddestination of the trips, how the trips are made, trips with respect to zones, purpose of trip, etc.

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Timings of survey - the survey was conducted during the peak hour. Morning 9:00 am -12:00 noon and evening 5:00 pm - 8:00 pm., during weekdays and weekends. Road side interview survey method is adopted.

Samples-PMM-136

Parking survey - Parking is one of the serious problems that challenges the street users. Parking Usage survey by Patrol was conducted. The purpose was to obtain the data on the extent of usage of parking spaces. The survey includes the counts of parked vehicles at regular intervals through a period, covering both the morning and evening peak period.

Timings of the survey - survey was conducted on a typical weekday and weekend, the period of survey was 11 hours to cover the arrival and departure of the common user as well as shoppers, etc.

Activitymapping, observations and self-administered question naire survey pointed to certain characteristics that are most important for people's activities to encourage them to use street as a social space.

Research wasconducted ontheofCitySangli,Maharashtra.

Panchmukhi Maruti Marg (Khan Bhag - ward No. 53, having population 5488) (Data collected from SMK Corporation by Mr. Kharat (assistant Prashasak) on dated 26/04/2016, according to census 2011)

Panchmukhi Maruti Marg is mixed use street- myriad uses including a wide range of housing from single to multi family, various types and scales of retail, offices, public, institutional uses, amenities like hospital, health care centre, temple, school in and around the neighbourhood. Within close proximity number of schools and colleges are located. Street includes convenientstores, saloons, panshop, snackstall, beautyparlour, coaching classes, healthcare centre, electronic store, dairy, tailor, ATM, meat shop, pharmacies, apparel stores, grocery store, general store, pooja sahitya shop, bakery, food stalls, rickshaw stop and the most important Maruti temple, etc. This area is in the heart of the city. Panchmukhi Maruti temple is the landmark as well as important node of this area. Particularly on Saturday temple activityis flourished more than other days.

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2.1AnalysisandFindings Activitymapping/walkbyobservation

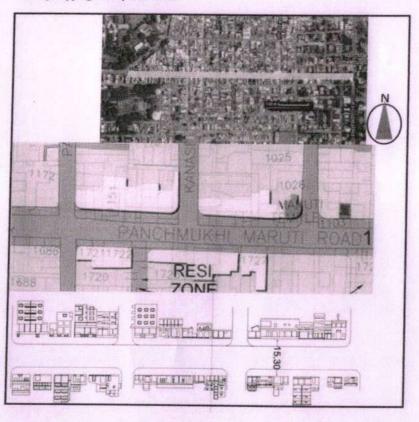


Fig.2.1PanchmukhiMarutiMarg-Landuse adjacenttostreet

Observationsoccurredthroughoutthedayfrom7:00A.M.to10:00P.M.onweekdaysand weekends.

Block1-Activities-Temple, Poojasahityashop, Residences, Shops (tailor, general, Tea stall)

Pedestrian zone - stalls, walking, lingering, parking, etc.

Block 2 - Activities - Residential, commercial (meat, hair cutting, General, pan, tailor, computer, vessels, etc.)

Pedestrianzone -standing, walking, cycling, parking, etc.

Block 3 - Activities -Residential, commercial (bags, grocery, pan, apparel, General, cosmetics) Pedestrian zone - standing, walking, cycling, stalls, parking, etc.

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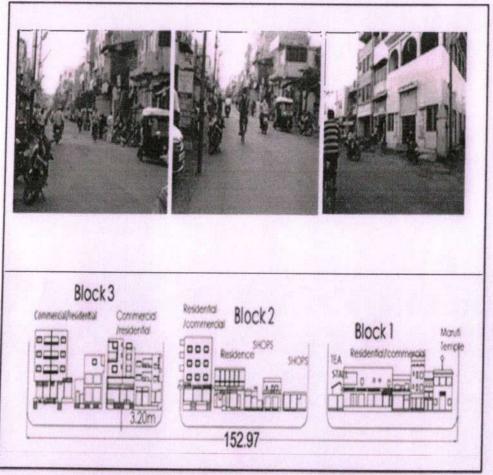


Fig.2.3 Acombinedplanandelevation of Northblocks

Block 4 - Activities –land use -Residential, Shops (dairy, general) Pedestrianzone-walking, standing, stalls, putting advertising boards, etc.

Block5-Activities-Residential, Shops (pan, general, grocery, haircutting, meat) Pedestrian zone – sitting, walking, standing, etc., putting advertising board, etc.

Block 6 – Activities -Residential, Shops (dairy, general, meat, salon, Clinic, Politician's office) Pedestrian zone - chappalwala, snack stall, standing, walking, cycling, etc.

Maximum old buildings are already converted into new. Transformation and modernization of buildings from old to new, articulation of street facades is the one of the important street characteristics is missing. Combination of old and new building facades give a chaotic characteristic to the street.

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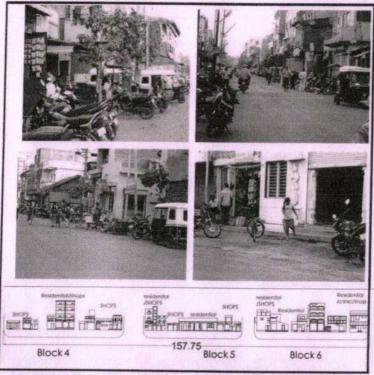


Fig.2.4Acombineplanand elevation of Southside blocks



Fig.2.6TransformationofLanduseandbuildingtypology

Observations-

Sense of belongingness and Identity - Because of new building bye laws which are only related with the build form, street loses its quality such as exterior room for the people, as well as sense of belonging and its identity.

Articulation of façade - there is a gap in between two buildings for light and ventilation so that street lost the characteristic as articulation of façade.

Sense of belonging and psychological comfort - Closely placed buildings give the sense of enclosure that denotes the sense of belonging and psychological comfort. Street is flanked on any sideby buildings, whichat ground flooris defined by means ofsteps/Katta, etc. these are the spaces which boosts the people to interact and involve in lingering and social activities, such spaces are lacking because of transformation.

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Shade and shelter - Cantilever projections/ balconies provide shade and shelter which is lacking.

New type of built form such as apartment and mix use buildings are going to be constructed with ground plus four storied. At the same time very, few old buildings are single or double storied are there. Transformation occurred in land use and mix type of buildings are emerged and street become more commercialized as that gives the character of the neighbourhood main street. The transformation occurred but till Temple is one of the most important land uses of the neighbourhood main street.

Temple become landmark as well as node and because of that the street get commercialized easily, as people coming to temple interact with each other, shopping, social and lingering activities occur. Few food and tea stalls are also active maximum time of the day. Because of land use such as temple, food stalls/tea stalls, shopping Complexes Street become abuzz with people maximum time of the day.

Diversity and vitality -variety of stores and shops, other amenities like health care center, ATM, etc., commercial activities, institutional activities, give characteristics of diversity and vitality.

Activities in frontageand pedestrian zone -Forwalk by observation Activities in the front- age zone and in the pedestrian, zone were recorded distributed in time zone as morning, afternoon, evening and late evening. Using this technique, I observed that necessary activities like walking, cycling, cleaning the shop front, etc. are happening but people are also engaged in lingering activities as well as in some social activities. People engaged in lingering activities like sitting on steps, katta, benches, in parking lots, standing alone, talking on mobile phone, putting advertising boards, temple activity, eating, drinking, etc. and standing ingroup, eating and drinking, greeting to people are the social activities happening on the street throughout the day.

Table 2.3 Number of people engaged invariety of activities (Weekdays

Activities	No.ofpeopleengaged (Frontage zone)	No.ofpeopleengaged(Pe- destrian zone)
Necessary	541(23%)	666(37%)
Lingering	1335(56%)	699(39%)
Social	513(21%)	433(24%)

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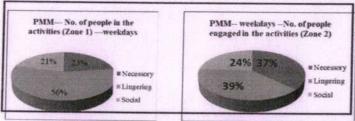
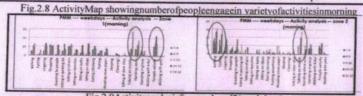


Fig.2.7Numberofpeopleengaged inactivitiesin weekdays





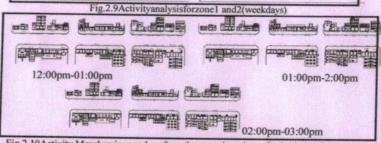


Fig. 2.10 Activity Mapshowing number of people engage invariety of activities in afternoon

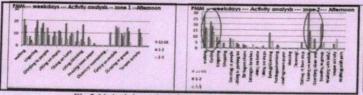


Fig.2.11 Activityanalysisforzone1 and2 (Afternoon)

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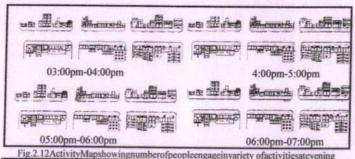
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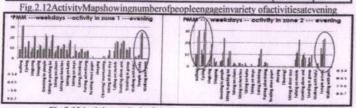




Fig.2.14Activity Mapshowingnumberofpeopleengageinactivitiesatlate evening

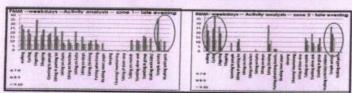


Fig.2.15Activity analysis of zone1 and2in thelateevening(weekdays)

Table 5.2 Number of people engaged invariety of activities (Weekends)

Activities	No.ofpeopleengaged(front- age zone)	No.ofpeopleengaged(pedestrian zone)
Necessary	373 (19%)	666(37%)
Lingering	1141 (59%)	812(41%)
Social	413 (22%)	509(26%)

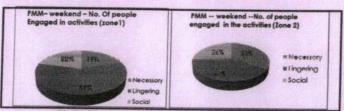


Fig.2.16Numberofpeopleengaged in activitiesonweekends

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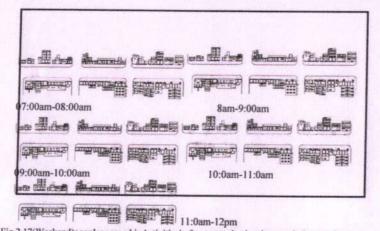


Fig. 2.17(Weekend)peopleengaged in Activities in frontage and pedestrian zone in the morning

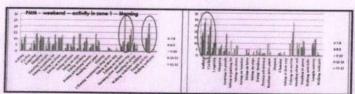


Fig.2.18Morning activity analysisin zone1and2

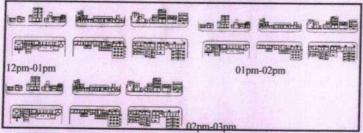
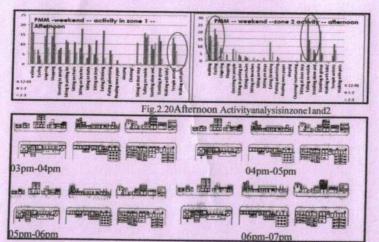


Fig. 2.19Peopleengaged invarietyofactivitiesatafternoon inzone1and2



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Fig.2.21Peopleengaged in variety ofactivities in the evening in zone1 and 2

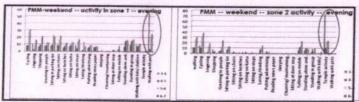


Fig.2.22EveningActivity analysisofzoneand2

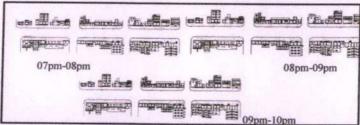


Fig.2.23Peopleengaged in varietyofactivitiesin zone1and2 in thelate evening

Children activity - Most of the children using street involved in necessary activities like walking with parents, shearing time with family. Few children are involved in social and lingering activities like climbing on objects, playing, walking in and out of building nooks, entrances, etc.

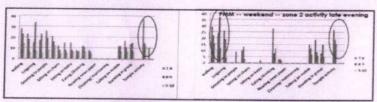


Fig.2.25children'sactivities(weekdays) Table

2.4 Children activity (Weekdays)

Activities	Childrenactivity(frontagezone)	Childrenactivity (Pedestrianzone)
Necessary	55%	80%
Lingering	30%	20%
Social	15%	0%

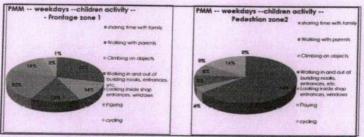


Fig.2.26Childrenactivities(weekdays)

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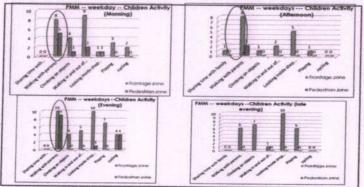
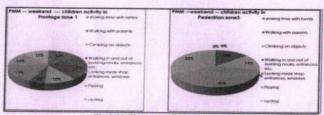


Fig.2.27Childrenengagedinvarietyofactivities(Weekdays) Table

2.5 Children activity (Weekends) /(frontagezone) Childrenactivity(pedestrianzone) Childrenactivity(frontagezone) Activities Necessary 51% 54% Lingering 35% 14% Social 14% 32 %



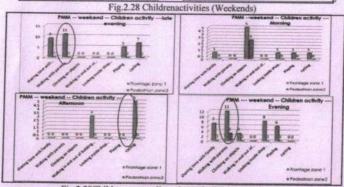


Fig.2.29Children engagedinvariety ofactivities (Weekends)

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Street shopping - People engaged in street shopping activity as buying pooja sahitya, flowers, etc. Food and tea stall are more active throughout the day. On weekdays 53% people are engaged in eating and drinking activity, while at weekends 36% people are engaged in eating and drinking activities.

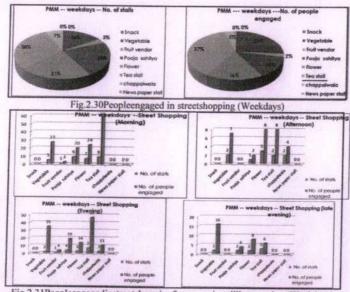


Fig. 2.31Peopleengagedinstreetshoppingfrommorning tilllateevening (Weekdays)

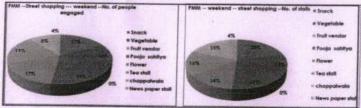


Fig.2.32Peopleengagedin streetshopping (Weekends)

2.3 identity and Sense - Still in contemporary temple is the important land use adjacent to neighbourhood Main Street by which people get encouraged to engage on street with lingering and social activities allied with temple activity as well. Temple gives the Identity and Sense.

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Table 2.6 Safety and Security on the street for user

SafetyDuring Daytime	Extreme	Somewhat	Extremelynot		Total		S.D.	Zcall	p value	Conclusion
PMM	7	46	1	54	2.111	111	0.371974	2.195036	0.0282	Sig*

*Indicatessignificantat5%(0.05)levelofsignificance

**indicatesnotsignificantat5%(0.05)levelof significance

ark .	xtreme	somewhat	Extremel	1	=	03	Z	alue	onclusion
after		#	lynot	Fotal	mean	S.D.	Cal		uc

Table 2.8 Opinion of user about importance of Sociable Street

PMM	Proportion p	Z	P	Conclusion
Sociablestreetisimportant	0.833333	6.572671	0.0001	Sig**
Streetisneglectedw.r.t.social activities	0.592593	1.384779	0.1661	Non sig**
Streetbuildingfacadesare important	0.87037	8.102684	0.0001	Sig

Sociable Street -User respondents agreed that the sociable street is important and the street buildingfacadesareimportantwithrespecttosense ofenclosure, sense of belongingness, and for attractive and interesting appearance.

Table 2.9 Opinion of user about reason behind the streets are neglected with respect to sociability

PMM	Proportion	Z	P	Conclusion
Lackofinteractive activities	0.574074	1.100809	0.2713	Non-Sig**
Theculturallevelof people	0.351852	-2.27969	0.02	sig**
Lackofvitalfacilities	0.648148	-2.279691	0.026	Sig*
Anyother reason	0.055556	-14.2581	0.0001	Sig.t.

People agreed that the lack of vital facilities, lack of interactive activities as well as change in cultural level are the reasons that the street is going to be neglected day by day for social activities.

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Street building facades are important. - user respondents agreed that the street building façade is the most important characteristic by which people feel the sense of belongingness and sense of psychological comfort.

Arevehiclesdominatingpedestrianuse? Arestreetscleanandfree from litter?

70% user feel that vehicles are dominating the street. 60% user feels that streets are not clean and 30% user feel that streets are moderately clean.

Users feel that vehicles are dominating the pedestrian use and street is not neatly clean. As vehicles are dominating the pedestrian streets are going to convert into the roads. From this analysis researcher says that because of modern transformation sociability of street is under danger.

Isstreetsignificantly crowded?

Table 2.10 Opinion of user about crowded of street.

Kesponse	Overcrowd- ed	Crowded	Notcrowded	Total	Mean	S.D.	ZCal	d	Conclusion
PMM	22	28	4	54	2.333	0.614	3.987	0.0001	Sig

Street is crowded and overcrowded at pick time. Street is a space for meeting friends - 80% user feel that street is a space for meeting with friends.

Userasshopkeeper

Age group - opinion of shopkeepers taken from all age group from 18 and above. Maximum shopkeepers are having age in between 25-50, few are in between 18-25 and few are in between 50 and above.

Typeofshop -most of the shops are of daily need products and few are other.

Milk dairy, general store, boutique, computer, medical, tailor, clinic, bank, light equipment, salon, utensil store, pan shop, mobile store, cloth store, and many more.

IsSociableStreetimportant?-shopkeepersfeelthatthereisimportanceofSociableStreet. From which area people are coming for shopping? - 70% people are coming for shopping from the same neighbourhood and surrounding area and approximately 30% people are coming from any part of the city.

Doyouparticipateinsocialactivities? -50%shopkeepersaretakingpart insocial activities happening on the street.

Accesstoall-Typeofpeoplecomingfor shopping.

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Equity-all classes of people are coming for shopping.

Peak time for shopping - Approximately 70% shopkeeper said that evening is the peak time for shopping.

Frontageofshop

A. steps, Katta, etc. are important? - shopkeepers feel that steps, Katta, etc. are important frontage areas / linear spaces which bind the street very well for business as well as for social activities which will again increase their business.

B. To give space for lingering, waiting, sitting, etc.- 70% shopkeeper said that there should be space for lingering, waiting, sitting, which will increase their business as well as sociability.

C. impact of good frontage design on their business. - shopkeeper feels that if frontages of shops are well design that will increase their business.

D. activities in frontage zone increase business. - Almost 90% shopkeepers feel that activities like lingering, sitting, waiting will help to increase their business.

Roleofsignage's,advertisingboardsinbusinessandimpactofit. -95%shopkeeperssaid thatthereisagoodimpactofsignage,advertisingboardsonbusiness.Maximumshopkeepers feel that signage's, advertising boards should be in frontage zone and at the top of the shop. Personalisation of space is one of the qualities which increase the sociability. The entire above activities play major role to flourish their business is agreed by 95% shopkeepers.

Encouragingsocialactivities will increase the business -85% shopkeepersaid that encouraging social activities will increase the business.

Effective movement of traffic will increase the business - 75% shopkeepers feel that there is no relation in between movement of traffic and increase in business.

Findings - Shopkeeper said that encouraging social activities will help to increase in business. Movement of traffic playing major role in increase in business and pedestrian and two-wheeler traffic are playing major role in increase in business. Few shopkeepers said that all the type of traffic movement will help to increase in business.

Types of Stalls/ Vendors - All types of daily needs such as food/tea stall, pooja sahitya, Flowerwala, cycle repair, fruit, vegetable, newspaper etc.

From which area people are coming for shopping on the streets? - from the same area as well as from surrounding area.

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Is properspace required fortheirbusiness? - All the stall ownersfeel that proper space on the same street is required for their business and Street is the best media for their business.All class of people are coming for shopping.

Which is the proper space for their business? - Maximum stall owners feel that frontage zone is the proper space for their business.

TrafficandTransportSurvey--Originanddestinationsurvey



Fig. 2.34 startand end timeoftripforO-DSurvey

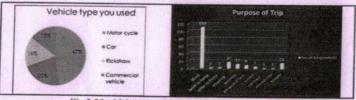


Fig.2.35vehicletypeandpurposeof tripforO-D Survey

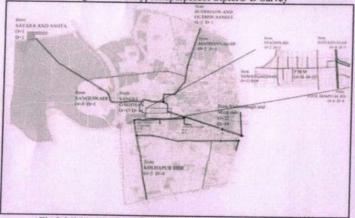


Fig.2.36MapshowingtrafficforPMMtoanffromthe citySangli Table

			2.111	Parkin	g ana	lysis					
Right side parkir	19										- 1
Average Duration in hours	1	2	3	4	5	6	7	8	9	10	11
Parked vehicles	198	12									
		T	able 2	.12pai	kinga	malysi	5				
Left side parking											
Average Duration in hours	1	2	3	4	5	4	1	8	R	10	11
Parked vehicles	244	10									

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Table 2.14parkinganalysis

Average Duration in hours	1	2	3	4	5	6	7	8	9	10	- 1
Parked vehicles	442	22	4	4		_	-	1	-	-	-

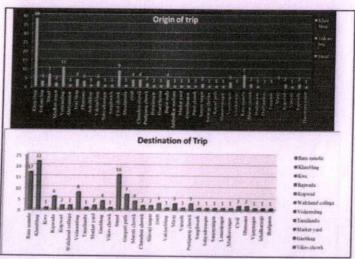


Fig.2.37Originand Destinationoftrip

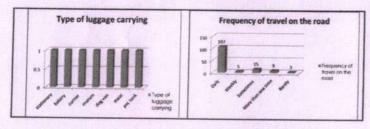
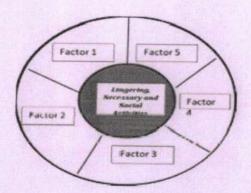


Fig. 3.38TypeofluggageandFrequencyof trip

3. Resultsandconclusions-Results

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Factor 1: lingering, greeting to people, sitting in parking lot; on katta, etc., putting advertising boards, standing in group, temple activity, walking, shopping, cleaning shop front. Cycling, walking with children/kids.

Factor 2: reading newspaper, talking on mobile, walking with pets, standing alone and observing people.

Factor3:Standing ingroup, templeactivity, sittingon benches

Factor4. sittingon steps

Factor5: eating/drinking, sittingat doorsteps

Table3.1Factorpattern-Zone1

	FI	F2	F3	F4	F5	Initial communality	Final communality	Specific variance
Lingering	0.788	-0.195	0.333	-0.232	-0.283	0.997	0.901	0.09
Greeting to people	0.748	-0.124	-0.050	-0.310	0.162	1 000	0.701	0.29
Sitting in parking lot	0.920	0.097	-0.222	-0.001	0.135	1.000	0.923	0.077
Sitting on chairs	0.547	0.425	-0.032	-0.378	0.140	0.991	0.643	0.357
Sitting on benches	0.650	-0.161	-0.537	0.179	-0.258	0.999	0.834	0.166
Sitting on katta	0.743	0.309	-0.310	0.017	0.212	1.000	0.789	0.211
Sitting on steps	0.515	0.001	-0.248	0.584	0.070	1.000	0.673	0.327
Eating drinking	0.477	-0.167	-0.226	-0.078	-0.552	1.000	0.617	0.383
Putting advertising boards, signs, etc.	0.734	0.201	-0.456	0.208	-0.098	1.000	0.840	0.160
Reading news paper	-0.200	0.890	-0.071	-0.390	-0.106	1.000	1.000	0.000
Sitting at door step	-0.202	-0.270	0.352	-0.078	0.381	1.000	0.389	0.611
Talking on mobile	-0.008	-0.778	-0.221	-0.282	0.050	1.000	0.736	0.264
Standing alone and observing other beople / activities	0.369	-0.465	-0.462	-0.435	0.294	1.000	0.841	0.159
Standing in group	0.786	-0.074	0.523	0.075	0.071	0.990	0.908	0.092
emple activity	0.726	-0.086	0.524	0.212	0.095	0.993	0.863	0.137
Valking with pets	0.583	0.629	0.002	0.111	0.239	1.000	0.805	0.195
ralking	0.860	-0.155	-0.008	-0.235	0.208	1.000	0.862	0.138
ycling	0.928	0.001	0.124	0.089	0.179	1.000	0.917	0.083
hopping	0.692	-0.042	0.289	-0.239	-0.471	1.000	0.844	0.156
leaning/maintaining shop front	-0.482	0.369	-0.067	-0.355	-0.026	1.000	0.499	0.501
alking with kids children	0.764	0.153	0.313	-0.032	-0.182	1,000	0.739	0.261

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Table3.2Factorpattern -Zone2

	FI	F2	F3	F4	F5	F6	Initialcom- munality	Final com- munality	Specific variance
Lingering	0.76	0.50	0.05	9 -0.02	3 0.142	-0.056	0.994	0.863	0.137
Greetingto people	0.48	0.48	3 -0.02	5 -0.46	7 0.526	-0.203	1.000	1.000	0.000
Sittinginparking lot	0.75	6 0.01	5 0.45	2 0.00	2 0.075	0.129	0.999	0.798	0.202
Sittingonchairs	-0.42	9 0.65	9 0.33	6 -0.38	-0.120	0.305	1.000	0.988	0.012
Sittingonbench-	es 0.00	0.43	6 -0.02	4 -0.35:	-0.393	0.108	1.000	0.480	0.520
Sittingonkatta	-0.12	1 0.04	0.74	-0.062	0.254	-0.314	1.000	0.744	0.256
Sittingon steps	-0.20	0.44	0.59	-0.117	-0.239	0.209	1.000	0.709	0.291
Eating/drinking	0.73	0.118	0.128	0.291	0.028	-0.030	1.000	0.657	0.343
Puttingadvertis- ingboards, signs, etc.	0.514	-0.474	0.367	-0.236	0.017	0.115	1.000	0.693	0.307
Readingnews paper	-0.510	0.561	0.608	-0.104	0.140	-0.159	0.992	1.000	0.000
Sittingatdoor step	-0.283	0.434	0.029	0.721	-0.403	0.101	1.000	0.961	0.039
Talkingonmo- bile	0.905	0.125	0.055	0.089	0.155	0.177	1.000	0.901	0.099
Standingalone andobserving otherpeople	0.741	0.313	0.046	-0.059	0.269	0.176	1.000	0.755	0.245
Standingingroup	0.201	0.635	-0.021	0.310	-0.165	0.288	1.000	0.651	0.349
empleactivity	0.757	0.022	-0.008	-0.149	0.141	-0.301	1.000	0.707	0.293
Valkingwith ets	-0.496	0.113	0.372	0.281	-0.027	0.519	1.000	0.746	0.254
valking	0.599	0.500	-0.347	0.231	-0.043	-0.272	1.000	0.859	0.141
yeling	0.808	-0.096	-0.161	0.068	-0.010	0.001	1.000	0.694	0.306
hopping	-0.209	0.506	0.625	-0.328	0.231	0.051	1.000	0.853	0.147
leaning/main- iningshopfront	-0.386	0.647	0.412	-0.246	0.322 -	0.124	0.994	0.916	0.084
alkingwith ds/children	0.496	0.027	0.146	-0.196	0.543	0.328	1.000	0.710	0.290

Factor 1: lingering, sitting in parking lot; putting advertising boards, eating/drinking, talking on mobile, standingaloneandobservingpeople.temple activity, walking, Cycling.

Factor 1
Factor 6
Factor 7
Factor 7
Factor 7
Factor 8
Factor 9
Fac

Factor2:sittingonchairs, benches, standingingroup, cleaning shopfront.

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Factor3:sittingonkatta,sittingonsteps,shopping,readingnewspaper.

Factor4:sittingatdoorsteps.

Factor5: walking with children/kids, greeting to people.

Factor6: walking with pets.

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After analyzing the activities on the streets throughout the day following are the significant activities in which people aremoreengaged and other activities which are demarcating the level of significance is more that people are like to perform those activities on the street if the time and space make them convenient, comfortable and safe.

Table3.3Zone1-Lingeringactivity

Activity	r	tCal	p	Conclusion
Lingering	0.54	2.303	0.0489	sig*
Greetingtopeople	0.557	2.42	0.0309	sig*
Sittinginparkinglot	0.719	3.73	0.0025	sig*
sittingon chairs	0.068	0.247	0.81	Non sig**
Sittingon benches	0.491	2.03	0.0633	Non sig**
sittingon katta	0.43	1.71	0.111	Non sig**
Sittingonsteps	0.574	2.53	0.022	sig*
Eating/drinking	0.1934	0.71	0.48	Non sig**
Puttingadvertisingboards, signs, etc.	0.575	2.53	0.025	Sig*
Readingnewspaper	-0.026	0.0953	0.9285	Non sig**
Sittingondoorstep	-0.266	0.99	0.34	Non sig**
Talkingonmobile	0.194	0.713	0.48	Non sig**
standingaloneandobservingother people/activities	0.68	3.31	0.0086	sig*
Standingingroup	0.045	0.164	0.8723	Non sig**
Геmpleactivity	0.942	10.154	0.0001	sig*
Walkingwith pets	0.43	1.72	0.1091	Non-Sig **

Significant activities on the street

Activitiesarelikelytoperformonthestreet

TostudythecorrelationcoefficientofdifferentactivitiesT-testisused.

Table3.4(Zone1) --- Necessary Activity

Table 3.5

Activity	r	t Call	p	Conclusion
walking	0.623	2.87	0.0131	sig*
Cycling	0.734	3.899	0.0018	sig*
Shopping	0.2084	0.76	0.456	Non sig**
Cleaning/maintainingshopfront	-0.546	2.349	0.0353	sig*
Walkingwithkids/children	0.551	2.382	0.0485	sig*

Table 3.5(Zone1)---Social Activity

Activity	r	tCal	P	Conclusion
Eating/drinking	0.55	2.391	0.048	Sig*
Standingingroup	0.522	2.21	0.0497	Sig*
Templeactivity	0.24	0.87	0.4001	Non sig**

*:significantat5%levelofsignificance

**:non-significantat5%levelofsignificance

Table 3 6(Zone 2) ------ Lingering Activity

Activity	r	tCall	p	Conclusion
Lingering	0.31	1.177	0.2603	Non sig**
Greetingtopeople	0.007	0.026	0.9197	Non sig**
Sittinginparkinglot	0.58	2.565	0.024	sig*
sittingon chairs	-0.576	2.54	0.025	sig*

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Sittingonbenches	0.212	0.783	0.48	Non sig**
sittingon katta	-0.356	1.38	0.1909	Non sig**
Sittingonsteps	-0.274	1.03	0.322	Non sig**
Eating/drinking	0.61	2.78	0.0186	sig*
Puttingadvertisingboards, signs, etc.	0.561	2.45	0.028	Sig*
Readingnewspaper	-0.598	2.69	0.0185	sig*
Sittingondoorstep	-0.34	1.31	0.2129	Non sig**
Talkingonmobile	0.566	2.47	0.0199	sig*
standingaloneandobservingotherpeo- ple/activities	0.53	2.246	0.0473	sig*
Standingingroup	-0.136	0.49	0.6323	Non sig**
Templeactivity	0.663	3.196	0.007	sig*
Walkingwith pets	0.55	2.37	0.0339	Sig*

Table3.7(Zone2) --- Necessary Activity

Activity	r	tCal	p	Conclusion
walking	0.09	0.33	0.75	Non sig**
Cycling	0.564	2.463	0.045	sig*
Shopping	-0.488	2.01	0.0542	Nonsig**
Cleaning/maintainingshopfront	-0.576	2.54	0.0247	sig*
Walkingwithkids/children	0.244	0.91	0.38	Non sig**

Table3.8(Zone2)----- Social Activity

Activity	r	tCal	P	Conclusion
Eating/drinking	0.612	2.78	0.0156	Sig*
Standingingroup	-0.135	0.49	0.6323	Non-Sig**
Templeactivity	-0.55	2.37	0.0339	sig*

Table 3.9 - significantlingering, necessary and social activities

Significantlingering activities	Significantnecessary activities	Significantsocialac- tivities
Lingering	walking	Standingingroup
Greetingtopeople	cycling	Eatinganddrinking
Sittinginparkinglot	Cleaningandmaintain- ing shop front	Templeactivity
Sittingon steps	Walkingwith kids	
Sittingonchairs		
Puttingadvertisingboards and signs, etc.		
Standingaloneandobserv- ingotherpeople/activities		
Readingnewspaper	K SECTION OF THE SECT	
Templeactivity	A STATE OF THE REST	
Eatinganddrinking		
Walkingwith pets		

Table3.10- activities which are likely to perform on the street

Necessaryactivitieswhicharelikely to perform on the street	Lingeringactivitieswhicharelikely to perform on the street
shopping	Sittingonbenches
Education (Street Street	Sittingonkatta

Conclusions

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Land-usequalitiesandrelatedactivitieshappeningonthe street

Diversity - **Variety and independent owned businesses** - Mix land use that provides an opportunity for variety of businesses on the neighbourhood Main Street which is helpful for thevarietyofactivitiestooccuronthestreetat alltimeofdayandalso fulfilstheneedsofthe inhabitants of neighbourhood within walking distance.

Vitality - Frontage and pedestrian zone - Number of people in and around the street across different timesof theday and night, theuptakeof facilities, the number of cultural events and celebrations over the year, the presence of an active street life.

Identity and sense - Temple as an important land use (Amenity), Variety and independent owned businesses, temple, food and tea stall - A workable image—temple activity, shopping pooja sahitya, greeting to people, talking on mobile, eating and drinking, standing alone and observing other people/activities, etc.

Legibility (opportunities the space offers for different activities) - Variety and independent owned businesses, temple, food and tea stall, pedestrian and frontage zone - Greeting to people, talking on mobile, eating and drinking, standing alone and observing other people/activities and so on.

Physical qualities and related activities happening on the street

Pedestrianfriendliness -Pedestrianway/Footpath-Walking

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Sense of belonging - Steps, katta, Otala such linear spaces bind the street - sitting, standing alone, seating in group, standing in group, children playing, waiting, watching people, going in and out which offer variety of lingering and social activities

Environmental comfort - Shade and shelter - Cantilever projections/balconies provide shade and shelter for the people who are using the frontage zone.

Relaxation - Pedestrian way, Frontages zone, steps, katta - sitting, standing alone, seating in group, standing in group, children playing, waiting, watching people, going in and out which offer variety of lingering and social activities

Permeability(capacitytoaccommodatevarietyofactivity)-Steps,katta,Otalasuchlinear spaces bind the street - sitting, standing alone, scating in group, standing in group, children playing, waiting, watching people, going in and out which offer variety of lingering and so- cial activities

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Socialqualitiesandrelatedactivitieshappeningonthestreet

Universal access - Variety and independent owned businesses - all kind of users are engaged in variety of activities throughout the day and night with respect to age, gender and class

Senseofenclosure-Senseofbelonging -Articulationofstreet façade

Territory, personalization and Control on the street - Variety and independent owned businesses - Putting advertising boards, signs, etc... Sitting on chairs, Group of people standing in a particular time every day in a particular space, regular maintenance of shop front, occasional decoration

Sense of safety and security - Sense of belonging - People engaged in variety of lingering, social activities and necessary activities throughout the day

Third places - Variety of public places that host the regular, voluntary, informal and happily anticipated gatherings of individuals beyond the realms of home and work.'- People identified as places where they were welcome, friendly, and where they spent time in active and passive socializing. E.g., Food/Tea stalls, etc. - Eating, drinking

The study concludethatit is an engagement between the spaces and theactivities in whichpeople get engaged that creates a comfortable, pleasurable and meaningful environment forthe sociable street which is going to disappear day by day because of modern transformation. People like to use the street for different activities but they are under fear to use the street for lingering and social activities rather than necessary activities. If we provide these qualities of the street to the neighborhood main street people will like to use the street as a social spaceeven in today's context.

Glossary

PMM-PanchmukhiMarutiMarg Zone 1 – Frontage zone Zone2 –Pedestrian zone

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