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Visual pollution phenomena and sensitivity of residences in heritage city centers Case of: Old district of Manama city, Kingdom of Bahrain

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ABSTRACT

Image of the ancient cities across the Arab region have been changed. The urbanization progress and their subsequent urban changes are of rapid acceleration, due to the population increase in the named cities; affecting the encompassed old districts in many respects. The mentioned changes are forked into two main branches; controlled and uncontrolled. On one side, the controlled category abide by the urban regulations in terms of the visual representation of the old districts. On the other side, the uncontrolled counterpart breach these regulations and their logical assumptions ending up in many urban problems in general and visual pollution in particular. The objective of this research is to tackle those cases of visual pollution. The research methodology is staked on both of the data collection and theoretical background about old district in Manama City, whereas thorough historic background of the city and analytical studies of the selected data and questionnaire are carried out. Although there were a few open-ended questions, the majority were closed-ended taking the form of yes/no, multiple choice, or rating scales. Questions went through several renditions based on intra- and interdepartmental review before being presented.

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1. Introduction

Treading along these ancient cities compels any researcher for visual quality analysis purposes. Albeit, touring across their streets is quite sufficient, to observe the devastating alteration within their urban state deforming their urban texture and architectural structure equivocally. It is way facile to track and detect the distinctive architectural set up of the buildings in regard of their affiliation to various decades. In addition, it is easy to the

development of these cities and the lifestyle of its residents by examining the adjustments of their building volumes, forms, color, height, and design. (Elghonaimy, Environmental Assessment of Urban Area, 2000).

In Bahrain, old district of Manama city is a

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witness on the economic, political and social eventuated over the last decade for Manama has been always the heart of civilization and vitality in Bahrain for a long time interval. It is acknowledged that the municipal architecture mirrors the cultural identity, social standard, political conditions and economic status of the homing civilization. Therefore observing the building chronological sequence in Manama indicates the sovereign historical eras of the Bahraini civilization.

It is a worth inspecting issue since the local residences of the ancient cities; Manama rely on their accommodating buildings in all their daily urban routine; living, trading, commercial activities, entertainment and social services in terms of education and health, to name a few. Yet architecture is taken for granted as part and parcel of our existence whereas it is not receiving enough attention nor contemplation. Nevertheless, considering architecture as an intrinsic part of our existence, then it ought to be enhanced regarding the visual quality of cities and counted as a window to its hosting cultural identity and its residents' self-esteem.

1.1. Diagnosis of the problem

Many urban problems occur due malfunctioning treatment of old districts in cities, such as; overpopulated residential areas, infrastructure deficiencies, and indiscriminate distribution of city services deteriorating the life quality right there. The foreign workforce imported utilize the spaces as per their requirement and understanding, thereby altering the prime functions of spaces. Moreover, they are reluctant about the visual display of their place of inhabitance as they do not consider that it belongs to them and they know that their stay is temporary. Visual pollution has been the ultimate repercussion of the haphazard urbanization policy adopted in old district of Manama.

1.2. Significance of studying "Manama city

Manama is the former capital of Bahrain, besides. It is considered as a prime tourist attraction and investment zone. It has been the prime location in the past for activities and still holds its position as an important city of Bahrain. The factual image of Manama incarnates the status of Bahrain in general indicate that of Bahrain. Manama is the considered the hub of the social, economic and environmental issues in Bahrain.

1.3. Motivation of selecting "old district of Manama "as case study

Old district of Manama city is the core business activities and official buildings of Ministries in Bahrain. Moreover, it is rich in archaeological monuments and heritage architecture entities. Enhancing the visual quality would positively show on residents' life quality, and attract investors to do business activities and tourists to visit the heritage areas, which by turn improves the national economy of Bahrain.

1.4. Research Idea

The unsorted conflict between Bahrain 2030 regarding the enforced regulations and actions amongst local authorities degrades the visual quality in the old district in Manama city. The flow of this conflict should be curbed, to avoid downgrading the visual quality in old district of Manama.

1.5. Aim of the research

To find out the reasons of the deterioration of the visual quality in the old district of Manama, and the forms of the resulted visual pollution then how can we enhance it, which consequently will

- influence positively life quality of residences
- attract capitals of business
- Encourage tourists to visit the heritage areas,

Consequently, will leads to improve the economy of Bahrain

1.6. The research methodology

Research methodology consists of two cardinal sections, where the first compromises the theoretical background figuring out the motif of adjusting the urban texture of Manama followed by a survey interviewing its users, residences, businessmen and municipality officers. The second demonstrates the analytical phase concerning the collected data and the findings of the interview to generate the research guidelines.

Visual pollution problem in old cities Definitions

In general, visual pollution is an aesthetic issue referring to the impacts of pollution that impair one's ability to enjoy a visit or view. Visual pollution is defined as the whole of irregular formations, which are mostly found in natural and built environments. (Yilmaz, May 2011). It could be also defined as encountering unfavorable sight that flaunts the aesthetic appeal of a specific area. Visual pollution



occurs when an individual cannot enjoy the view in a particular area due to the drastic changes taking place in a named natural environment.

2.2. Old districts and Urban Design Defects:

In old districts in cities, life style change affected the physical conditions of the urban plan in general moreover, architectural representation in particular. In Manama, by the oil mining success and modernization, most of the old residences moved out the old districts towards new districts looking for modern and comfortable and spacious areas. Fascinated by their desire to lodge in the new residencies together with their unawareness of the value of the abandoned ones led to sweeping downfall of the old Manama and its traditional buildings as well. This reality has changed the character of the human settlement in these old areas depending on the variations of circumstances, actions and events such as migration and employment, balance of urban fabrics. (Hamouche, 2009)

In order to reconcile visual quality inside old physical district efficiency with and environmental constraints, the performance of policy and strategies in old cities seeking urban development needs to be monitored and evaluated. Reconciling visual quality inside old district efficiency required improving the quality of life reflect upon visual quality. The key factors of Reconciling coming from clarifying the value of these old districts and avoiding the conflict between policy and action plans. (Elghonaimy, Environmental Management and Economic, 1995). En masse, the planning process has to meet specific goals in terms of users, time and space. Behavior of the users' forces cannot always be predicted, so feedback information is necessary to reevaluate initial goals and objectives. The main features affected by the deterioration of urban quality are building condition, quality of life and standard of living. Hussain El-Dardiry, Islam Elghonaimy, 2010) The parallel impacts came in term of visual quality in old Manama city.

In many cases, failing in controlling visual pollution because of facing the economic power of business. For examples, as businesses look for ways to increase the profits, cleanliness; architecture, logic and use of space in archaeological urban areas are suffering from visual clutter. (Morozan, Cristian; Enache, Elena; Purice, Suzan., 29 March 2013).

2.3. Repellent factors in Site Attraction Sceneries Visual formation is considered one of the

significant factors, to get a full visual picture of cities in general. In old districts, traditional buildings are of unique characteristics. The major factors that affect visitors' scene for this area as follows:

- Site Treatment
- Study of visual interrelation between the buildings and surrounding outdoor spaces
- Site Furnishing
- Artistic element within the urban areas

2.3.1. Site Treatment

Street furniture plays significant factor in enhancing the visual communication between existing buildings and urban fabric. In old part of cities, visual studies take to embark the site treatment. It could be working on underscoring and preserving its nature, obliterating whatever spoils its homogenous set up. Moreover, it aims at introducing some additives, to highlight its natural composition on the one hand. It may be also an attempt to demolish this set all together or work on amending adjustments on the other.

2.3.2. Study of Visual Interrelation between the Buildings and Surrounding Outdoor Spaces

It comes second after the treatment process, where the buildings are studied as one block or limited variable ones. Thus, the visual image formation is not hard to handle. Using similar colors, details and materials end up in a homogenous rhythm along the blocks and spaces. It may be apparent in a systematic train of thought in control of the design; hence, the visual interrelation among the constituents of the site especially for those speedy highway travelers, for speed is known for correlating the nearest points to the farthest ones. Therefore, the named goal is realized.

Regarding free designs, they are doubleedged weapon for their free block formation though their main problem lies in achieving continual block-space interrelation with variant functional surroundings. The design is termed successful, if it satisfies the spectators visually psychologically meeting their expectations and satisfying their wants, bearing in mind their individual differences. Reachina out for this continuation and consistency, exaggerated repellent forms and size blocks must be cut down along with setting forth an overall controlling visual theme. This is either achieved by areal categorization; narrow



ranged areas must be separated from their wider counterparts, or opting for green areas and foresting for thematic supremacy.

2.3.3. Site Furnishing:

It is a crucial supplementary factor for completing the site scene in archaeological areas. The comprehensive site scene includes plants, fountains, lighting and other artistic factors, ruling out any repellent forms for homogeny purposes. Additives do maintain the color scheme and aesthetic touch necessary for an architectural design, yet they decrease the feeling of heat in high temperature areas, meanwhile they are despised in highly humid zones. Therefore, we can say that Site furniture is not of a sole visual function, but comprehensive seen as well.

Thus, their quantity and types must be allocated accordina to the homina environment circumstances in days and nights equally. From climatic perspective, regularly Bahrain is overwhelmed by sand storm. Thus site furnishing is also significant in enhancing the visual quality in sand storm attacked zones, for dust deposition areas, where evergreens perfectly fit, for their dropping foliage accumulates no snow. (Chmielewski, Sz., Lee, D., Tompalski, P., Chmielewski, T., J., Wężyk, P, 2016

2.3.4. Artistic Element within the Urban Areas:

There are other elements that in crucial dense such as statues, sculptures. They connect different spaces and interfere in the curvature of the corridors in directing and clearing probable congestions within the site as well as the grading steps, kiosks, shops and billboards, in respect to the design consistency and the site visual coherence. (Elghonaimy, Historical preservation projects and urban developing plans, Impacts of Successful experiments in historical preservation projects upon Enhancing City urban conditions; Case of Bahrain, 2011).

Case Study: Governorate Road, "Bab Al Bahrain"

3.1. Historical Background

Bahrain has a prolonged history that goes back to before the birth of Christ era, where the oldest civilization took place "Delmon"; it was a center of trading from that time, until today. Till the time being, trading background still influences the Bahraini community. Manama is one of the most old cities in Bahrain emerged in 1780s, where Manama is the capital and largest city of Bahrain, it was an important trading center in the Gulf. Traders came to rest

and feature their products. It means "the place of rest", Manama is a cosmopolitan castle embracing multi-ethnic origins within; Jews, Muslims, Christians, Hindus Buddhists, etc. It has been a melting pot for all these ethnic varieties lived door to door since the birth of the peaceful coexistent community

The case of studying locate in the old district Manama, Governorate Road, "Bab Al Bahrain" area. This Avenue is one of the liveliest streets in Bahrain, it is filled with locals and tourist filling this area, with Bab-AL Bahrain and the gold market is one of the busiest streets in Manama. Visual analysis will for this street to find out the common features of visual pollution then in return, it would be requesting some improvements that may enhance the users' experience. (Hamouche, 2009).



Figure 1. A map of Manama of the early '30s clearly show the morphological structure and the extent of the two fabrics at the beginning of the modernization process (Agriculture, 2007)



Figure 2. A map of Manama governorate clearly show the old district, Bahrain, in 2016s, Ministry of Municipalities Affairs and Agriculture

A sample of "transitional area" in Manama; the historic pattern is still kept, but some streets have been widened to become commercial trough fares. Several transformations have occurred in the built-up fabric as well,



especially along the "modernized" streets. The red perimeter show the survey test area.

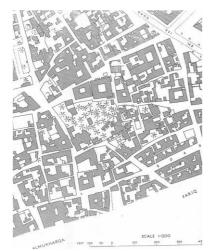


Figure 3. A portion of Manama city, Bahrain, in 1950s showing the urban fabric and spaces usage in old district. (Hamouche, 2009)



Figure 4. A portion of Manama city, old district 2006, showing more focus the urban fabric and spaces usage in old district (Agriculture, 2007)

The survey test area in the "transitional" zone: a "modernized" commercial street and two "traditional" streets. The bases of the survey data (including ownership, state of occupancy, building typology, construction system, and so forth) the category of the permitted interventions are identified for each buildings (left). Some "sensitive" areas can also be defined to be possibly submitted to integrated conservation and regeneration projects. (Agriculture, 2007).

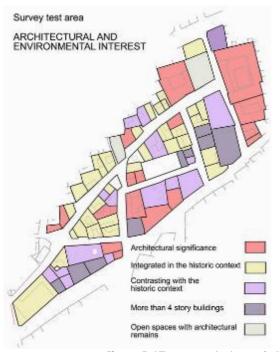
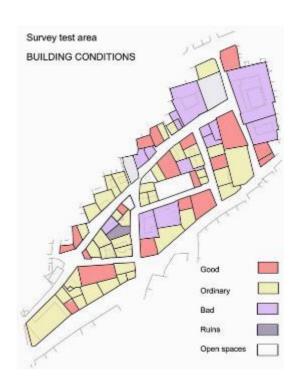


Figure 5. 1The survey test area in the "transitional" zone (Agriculture, 2007)





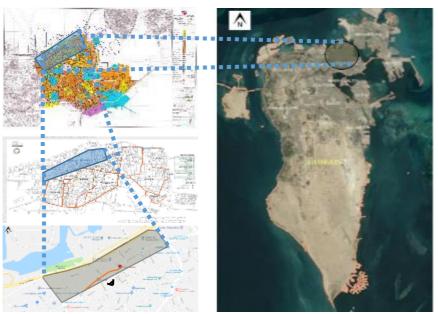


Figure 6. Location of the pilot study of: "Bab Al Bahrain", Governorate Road, Old Manama, Kingdom of Bahrain

4. Pilot study: Government road, Old district, Manama City

4.1. Location of the Pilot study

It is the Avenue that goes through Bab Al-Bahrain into Manama. Bab Al-Bahrain was built in 1949, and it has undergone eminent changes over the years but the Ministry of Culture undertook a project to preserve it as a cultural landmark; thus restored it to its former glory and eventually moved its tourism sector offices and visitor's center right into the building. Attached to Bab Al Bahrain is the old Manama Marketplace "Souq". The market is a vibrant collection of number of traditional coffee and shops offering a wide range of goods from gold, textiles, spices, incense,

perfumes, handicrafts and souvenirs, as well as more modern products from all over the world. The souq offers a unique shopping experience that brings to mind the style of commerce from days long past (figure 7).

4.2. Historical background of the Area

The whole area had gone through many developments until this day; the first area is relatively the same as before. The second area had gone through major changes; it had been turned into a pedestrian path, which is similar to the international case that has been chosen, by turning a normal street into a pedestrian path.



Figure 7. Urban context of the study area, google earth map, 2017







Figure 8. The most famous buildings in the study area.

4.3. Users

Fig 9, illustrates the featured estimation for the use of Bab Al-Bahrain Avenue, where it is highest used twice a day; in the afternoon and evening. It records highest utilization rates in the

weekends especially Friday. Both inhabitants and tourist use the street, as it holds a cultural attraction as well an economic attraction.

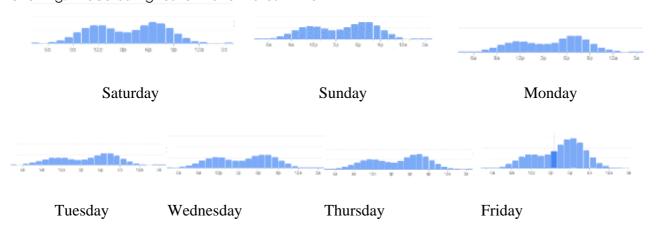


Figure 9. The featured an estimation for the use of Bab Al-Bahrain Avenue (Popular times in Bab Al Bahrain, 2018)

4.4. Activities

This area indulges many activities; capturing photos near the (heart) Bahrain structure or near Bab Al-Bahrain or near the hanging coins. For local residences, they can enjoy their time in the cafés they can also sit around and just

enjoy the space. While the victors do some shopping and have rest in some traditional cafeterias.















Figure 10. The common social and commercial Activities in the case study area

4.5. Symptoms of visual pollution in "Bab Al Bahrain", Governorate Road, Old Manama

Unfortunately, the visual quality is deteriorating, which is but a distortion of the once inviting view propagating psychological unease in many places. In particular, the visual pollution appeared due to improper usage of the monumental and valuable wealth of the area disturbing the visual quality concerning its beholders. Infringing changes of the urban context forcing the seers to accept

unaesthetic scenes as normal. Residences used to deal with deteriorated visual quality as normal issues. It is an aesthetic issue and refers to the impacts of pollution that impair one's ability to enjoy a vista or view. Visual pollution disturbs the visual areas of people by creating harmful changes in the natural environment. Therefore, the dealing with phenomena of Visual pollution in Manama Old districts is related to its handling methodology.







Figure 11. Miss use of vacant lands that harmful the urban context

From the inventory and field survey, it is deduced to be lacking the least artistic taste in dealing with building color or adding new one to the surrounding old buildings or disappearance of the aesthetic image of everything that surrounds from buildings to roads or sidewalks and others will provide some examples of this type of pollution:



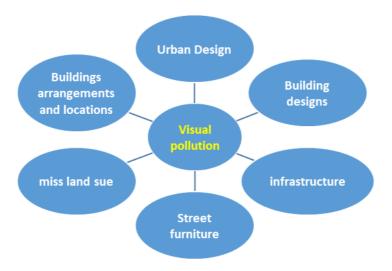


Figure 12. Common causes for visual pollution in study area

a. Urban Design;

- Lack of urban controlled: Local managers of old urban areas especially in archaeological places over what is built and assembled in public places.
- ii. Poor urban planning of some buildings, both in terms of spaces or in terms of the form of construction.
- iii. Build buildings in front of beautiful scenery and hide it, for example hiding the sea
- iv. Improper way in hiding waste and countless other examples.

b. Buildings arrangements and locations:

- The spread of housing haphazardly in the vacant areas instead of having gardens.
- ii. archaeological projects: Deficiency in dealing with the restoration projects in the archaeological areas in comprehensive level

c. Land misuses: in terms of

- i. Miss land sue in the old districts in general
- ii. open storage of trash, and automobiles movements and parkina
- iii. Crashed cars or those loaded with goods asymmetrical appearance.
- iv. hopheads land use within the area
- v. Waste disposals: Garbage cans in their forms that give rise to pessimism.

vi. Waste from the rubbish in the land space and around the crankshafts different colors of building facades.

d. Street Furnishings:

- Street Lighting: Street lighting poles do not fit the streets while electrical wires are hanging on building' facades deteriorate visual quality of the area.
- ii. Poor management of Billboards, Trash cans and dumping areas that are exposed,
- iii. Signboards and billboards hanging in the streets in non-matching colors.





Figure 13. Street furniture: in term of Miss-use Billboards

- i. Missing sitting areas and places for taxi drivers waiting areas.
- ii. Missing shades and landmarks.
- iii. low level of respecting the landmarks for example minor sculpture in the area
- iv. **Garbage bins:** Garbage bins are provided in large numbers (15 or

more) and distributed randomly along the street, with different sizes, materials, colors and forms. Pedestrians throw the garbage instead of making the street dirty with wastes.



Figure 14. Street furniture: in term of Miss allocating or designing trashcans and dumping areas

v. Fences and Barriers: Lots of barrier structure are used in the avenue to separate the pedestrian pathways from Vehicles Street using these different material and form barriers, so they prevent vehicles to enter

some places. Some of these barriers are made of metal; some are made of concrete but in general are not matching with the traditional style of buildings.



Figure 15. Fences and Barriers are not matching with the traditional style of buildings.

vi. Sitting areas: All visitors of different ages can use sitting areas-the "Basta" sitting area used by adults more. According to time, the using for the areas. all dav -used more afternoons and evening preferable daytime for shopping and using the SOUQ. For taking rest after shopping or for enjoying the photo gallery and the entrance

fountain view and for gathering. Shadings in many places are in ugly shape for shading the pathway in the shopping areas and the shading for the police officer.





Figure 16. Sitting areas: more visual pollution sources in term of the clear haphazard in allocating for sitting areas.



Figure 17. Mal-allocating for sitting areas

vii. shading devises



Figure 18. Shadings in many places are in ugly shape

e. Infrastructure: in terms of Antennas, electric wires hanging upon building facades



Figure 19. Haphazard car parking with low level of maintenance.









Figure 20: Deteriorating traditional building condition (air conditions are haphazard disrupted).

f. Building designs:

- i. **Building heights:** Demolishing the traditional buildings amid to build high-rise buildings leads to miss the homogenous skyline for district buildings. Moreover, the creation of new high rise buildings invaded the visual privacy of older homes.
- ii. **Facades designs:** The use of glass and aluminum finishing, which increases the sensation of heat. Moreover, they are randomly hanged for air conditioners in facades.
- iii. **Colors scheme:** lack of harmony for the new parts with the old

- iv. **Demolishing the traditional** buildings to build high buildings.
- v. Missing the common style of Architecture design for building in terms of height, color, or design for buildings,
- vi. **Buildings roofs:** Improper use for roofs in term of Antennas or storage are often considered visual pollution. (Chmielewski, S., Samulowska M., Lupa, M., Lee, D., Zagajewski, B, 2018).







Figure 21: low quality of dealing with building Facades designs

5. Governmental actions considering visual pollution:

5.1. Legislations and regulations

Several legislations were issued to manage dealing with visual aspects while others were issued to deal with the old districts in Bahrain; like the legal codes in the years 1977, 1979, 1981 and 1998 and binding regulations in the years 1979,-1981, 1988, 1998 and 2005. Unfortunately, not all these laws and regulations controlled the visual pollution or the controlling the deteriorating of the old distrust.



Figure 22: Falling of laws and regulations in control the visual quality.



5.2. Bahrain's Master plan 2030 – Overview

Bahrain's Master plan 2030 deals with the Bahrain Strategies and Policies. There were many steps towards treating visual pollution in old districts in Manama as well for example:

- i. Creating one comprehensive master plan for the old district.
- ii. Built distinct communities.
- iii. "The National Plan of Bahrain lays out key strategies that coordinate and focus development"
- Control Land Speculation
- Protect resources
- Preserve Historical & Ecological important sites
- Integrate transport & ensure public access to open space Waterfront. (Bahrain, 2007).

5.3. Benefit of analyzing the Master plan & Vision of 2030:

The Master plan & Vision of 2030 that will help in:

- i. "Built distinct communities" and adding greenery to the area
- ii. They want to lessen the sprawl, use the land more effectively, help preserve and keep the traditional Bahraini lifestyle, and the historical landmarks.
- iii. Protection of the heritage, archaeological, & cultural sites
- iv. Help encourage tourism through visual aesthetics to the archeological sites and traditional Bahraini lifestyle.





Figure 23: Bahrain's Masterplan 2030 – Overview

6. Conclusion

Visual pollution in the old district leads to loss the aesthetics and the sense of unity and common values for the areas in general in terms of:

- a. The danger of visual pollution lies in its association with the old district of Manama City. The studied area is a very active pedestrian area, where people constantly use it at all time for the cultural representation it has and the economical center it is, so it is important to have a careful design for the area, which will assure the comfort of the users while using the street.
- b. By contrast, the loss of beauty and the collapse of aesthetic considerations in the area deteriorating the general taste of residences in Bab Al Bahrain area, leads to the acceptance of the ugly image as dominate, and deteriorate the taste of the residences.
- c. Tourists would never find it appealing to visit the old districts, and the investors and businessmen are to look for other beautiful

urban context to inaugurate their business. . The real estate investors tend to invest in the reclaimed area opposite to the Manama souq because of sea view and modern infrastructure development.

- d. Unpleasant spread until it became a domineering visual characteristic, where law still exists to detect the sources visual pollution and its manifestations in the streets, roads and neighborhoods of the city tracking some aspects.
- e. Buildings design are characterized by its haphazard and deteriorating building conditions in terms of installations, color, height, building materials, structure systems, general noticeable exterior and leads to a clear truancy of harmony; utilized materials in covering the facades of buildings, the finishing materials.
- f. There is a need to be sure of implementation the approved facades design by the municipality.



- g. Absence respecting traditional architecture style in designing the new building.
- h. Miss proper Implementing the relation between the followings elements:

Table 1. Visual pollution elements and forms in the old district

Element	Forms of visual prolusions
Site Treatment and Sitting of	Garaging and parking
buildings	Communal spaces
	Access while health service needed and emergency circumstances.
	Private spaces
surrounding land-use	Disappearing the artisan and the traditional workshops area
	Access to Commercial land-use
	Services (as land-use)
	Access to different buildings types (governmental – nongovernmental)
	Miss allocating the waste collection
infrastructure grid system and	improper Sanitary, electricity, communications
networks	Freedom from local hazards and nuisances
	Accident hazards.
Site furniture	Aesthetics, street lighting, hard scape and soft scape as well
Open space (recreational uses	Public safety
	Public recreational places
Roads and Transportation	effective capacity of roads
	Access to transportation
	Access (vehicles and pedestrians)

7. Recommendation: Authoritative contribution in controlling Visual pollution
Urban planning policy level, the flow of the unsorted of the conflict between Bahrain 2030 regarding the enforced regulations and actions amongst local authorities should be curbed, to avoid downgrading the visual quality in old district of Manama city

strategy level, there is a need to revise the points of controlling the visual pollution reasons

that mares the beauty of old district of Manama city and gives the viewer an awful display; it should be proposed solutions to mitigate visual pollution. It is worth mentioning, that urban scholars are of authoritative contribution in controlling Visual pollution in Manama Old districts considering the Physical axes, Environmental (context) The social dimension and Economic conditions; (table 1) (El-Ghonaimy, 2013).

Table 2. Influences with phenomena of Visual pollution in Manama Old districts

uble 2. Influences with priendifiend of visual politifior in Manaria Old districts		
	Factor	Description
i	- Physical (location)	Considering applying architecture building code, land use, and landscape architecture represents the maximum number of users for a certain period in a place without causing any damage to the environment
j	i- Environment	Use a level, which you can tolerate without causing any destruction to the environment and their preservation.
j	ii- social and Cognition (awareness for users)	Human behavior and resources that Represented by the habits and behaviors, that characterize the users place (sociological psychological approaches)
j	v- Economic (Returns)	Activities and management strategies. for example, Accounts for the level of use and consumption of a place for fuedal returns. Paving attention to attract capitals and tourists towards the old district.

Control visual pollution will in term of:

- a. Urban design, regulation and coding; there is acute needs to adopt manuals of urban design/architectural guidelines, rules and restoration codes within the protected zones.
- b. **Skills of Urban Scholars**: Raise the technical level of urban designers,
- landscape architectures and architects responsible to know how to deal with the vernacular buildings in term of Architectural designs, especially façade designs, colors, finishing materials and support section
- c. Conservation Zone Area; to adopt temporary visual protection measures



including protection two prime perimeters for the traditional core areas of Manama. Moreover, to develop the conservation plan leading to the establishment of the urban conservation zones and their boundaries. And to adopt the policy of investors, demonstrating to businessmen, and residents, government's commitment to these areas through the implementation of pilot projects.

- d. **Buildings arrangements and locations:**prepare strong action roles in controlling
 the relation between the contractor and
 the Municipality. Tightening Supervision by
 municipalities on contractors and owners
 of the obligation to implement what has
 been done.
- e. **Street furniture:** there is a need to reexamine the existing case of:
- -Street lighting
- -Garbage bins
- -Soft scape and plants species
- -Encouraging walkability
- -Fences and barriers
- -Sitting areas
- -Pavement design
- Allocating bicycles parking
- f. **Design codes:** implement design codes to control schemes, facades, and colors setting suitable landscape architecture.
- g. **Modern Technology**: use it in infrastructure and construction.
- h. **Encouraging public participation:** to share in enhancing and developing the old district.
- i. **Building designs: Design codes:** implement design codes to control:
- -Schemes and style of building architecture
- -Building materials
- -Structure system
- -Facades colors and style
- -Buildings roofs
- -Landscape architecture

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