



COMPARISON OF BENEFITS OF TERRACE GARDENING BETWEEN INDIVIDUAL HOUSES AND APARTMENTS

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ABSTRACT

Terrace gardening are a living work of art in which the plants are arranged on a terrace. It also consists of indoor or outdoor plants (Irfan-Iodhi, 2018). One important purpose of terrace gardening is passion for gardening. Apart from that, it has many other benefits like ecological benefits, water conservation, energy conservation, decorative enhancement and attraction to birds and insects. Terrace gardens also contribute tremendously towards the health betterment of the occupants of the building (Rao, 2016). The present study focused on comparing the benefits of terrace gardening between individual houses and apartments. The results of the study showed that benefits of terrace garden by the selected respondents were similar irrespective of their type of house and positive relationship exists between factors inspired and level of satisfaction on benefits of terrace gardening.

KEYWORDS : Terrace garden, roof gardening.

INTRODUCTION:

The term “terrace garden” can refer to two different types of gardens. In one sense, a terrace garden is a garden which is established on a terrace, roof, or patio, usually in a house where there is limited gardening space (McMahon, 2018). Terrace gardening transform buildings and homes into lush productive and purifying livable spaces with natural greenery. These gardens can be created on almost all kinds of buildings like residential flat, independent houses, apartments (Kisancentral, 2018). Terrace garden is a new trend for having surrounded by nature. Terrace garden not only gives rich look to the house but it also helpful in providing good health. Having various medicinal plants is a good approach. Much common life style diseases can be solved at home if has greenery in from of terrace garden and some medicinal plants there. Also having fresh vegetables like tomato, chilies, mints cabbage, ladyfingers, cauliflower, gives real joy (Binetti & Peters, 2008).

OBJECTIVES:

- To know the factors inspired for terrace gardening of the selected respondents based on their type of house.

RESULTS AND DISCUSSION:

Table – 1: Factors inspired and Benefits of terrace gardening of the Selected Respondents based on their type of house (In percent)

Factors inspired to have terrace gardening	Individual House		Apartment		Total N= 80
	N= 40	%	N= 40	%	
Space intension	32	80	30	75	78
Health benefits	33	82.5	34	85	84
For income purpose	10	25	10	25	26
Relaxation	37	92.5	37	92.5	93
Aesthetic	25	62.5	20	50	56
Hobby	24	60	29	72.5	66
Medicinal benefits	36	90	36	90	90
Rake	28	70	33	82.5	76
Hoe	18	45	22	55	50
Benefits of terrace gardening					
Free from stress	37	92.5	35	87.5	90
Reduce indoor temperature	26	65	30	75	70
Increase oxygen amount in air	37	92.5	34	85	89
Brings close to nature	37	92.5	36	90	91
Purifies air by removing toxic substance	13	32.5	17	42.5	38
Reduce vegetables and fruits expenses	14	35.0	21	52.5	44
Improves aesthetic appeal of the terrace	29	72.5	30	75	74
Reduce noise pollution	10	25	15	37.5	31
Better usage of available place	35	87.5	34	85	86
Improves health	34	85	38	95	90
Reduce global warming	39	97.5	35	87.5	93

- To analyse the benefits of terrace gardening of the selected respondents based on their type of house.

METHODOLOGY:

An Ex post facto research design was used for the study. Using purposive sampling technique 80 residential buildings possessing terrace garden were chosen for the study out of which 40 were individual house and 40 were apartments and the details are obtained through the people residing in the house. The structured questionnaire with details pertaining towards factors inspired and benefits of terrace gardening was used to collect data and analyzed using correlation, 't' test and 'F' test.

HYPOTHESES:

- Significant difference would exist between benefits of terrace gardening based on the type of house
- Significant relationship between the factors inspired for terrace gardening and level of satisfaction on benefits of terrace gardening.

Table 1 depicts the factors inspired and benefits of terrace gardening of the selected respondents based on their type of house.

Factors inspired to have terrace gardening:

An equal majority (93 percent) of the selected respondents residing in both individual house and apartment stated relaxation whereas (90 percent) for medicinal benefits, followed by (84 percent) for space intension, (66 percent) as hobby, (56 percent) and (26 percent)

for aesthetic and income purpose respectively.

Benefits of terrace gardening:

Majority (97.5 percent) of the residents of individual house stated that it reduces global warming, followed by (92.5 percent) free from stress, increases oxygen content, bring close to nature. Whereas the majority residents of apartment reported (93 percent) it reduces the global warming, followed by (91 percent) brings close to nature and (90 percent) free from stress and improves health.

Table-2: Level of satisfaction on benefits of terrace gardening of the Selected Respondents based on their type of house (In percent)

Benefits	Individual house			Apartment house		
	Fully satisfied	Partially satisfied	Not satisfied	Fully satisfied	Partially satisfied	Not satisfied
Home purpose	75	25	0	72.5	27.5	0
Hobby	42.5	57.5	0	70	30	0
Health benefits	67.5	30	2.5	75	22.5	2.5
Heat absorption	42.5	55	2.5	57.5	40	2.5
Hygienic	70	30	0	82.5	15	2.5
Reduce stress	80	20	0	80	20	0
Purifies the air	37.5	60	2.5	47.5	52.5	0
Reduce noise pollution	17.5	75	7.5	30	67.5	2.5
Expenditure	72.5	27.5	0	77.5	20	2.5

It is clear from the table that majority of individual house residents stated that 80 percent of them were fully satisfied in the aspect of reducing stress, whereas majority 82.5 percent of the apartment residents stated that were fully satisfied in the aspect of getting hygienic products. Majority (75 percent) and (67.5 percent) of individual and apartment residents stated that they were partially satisfied in the aspect of reducing noise pollution respectively.

significance with level of satisfaction in benefits of terrace garden. Hence the hypothesis 2 is accepted.

Table-3: Comparison of benefits of terrace gardening based on the type of house

Benefits Of terrace garden	Type of house	N	Mean	Std.dev	Std.error mean	't' value
Benefits	Individual house	40	14.23	1.441	0.228	0.951NS
	Apartment house	40	13.88	1.828	0.289	

NS- not significant

CONCLUSION:

It is concluded from the study that irrespective of type of house both the respondents of individual houses and apartments prefer terrace gardening for relaxation purpose and stated reduce in global warming as the major benefit. It is also clear that majority of individual house residents stated that 80 percent of them were fully satisfied in the aspect of reducing stress, whereas majority 82.5 percent of the apartment residents stated that were fully satisfied in the aspect of getting hygienic products. It is evident, that benefits of terrace garden by the selected respondents were similar irrespective of their type of house and positive relationship exists between factors inspired and level of satisfaction on benefits of terrace gardening.

Table 3 shows the mean, standard deviation and "t" value to depict the comparison of benefits of terrace gardening based on the type of house

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Benefits of terrace garden

There existed no significant difference between the selected respondents living in individual house and apartment regarding the benefits of terrace garden and was found to be similar.

It is evident from the table, that benefits of terrace garden by the selected respondents were similar irrespective of their type of house.

Hence the hypothesis 1 is rejected.

Table 4: Correlation coefficient matrix showing the relationship between the factors inspired and level of satisfaction on benefits of terrace gardening.

S.NO	Selected variables	Level of satisfaction in benefits
1.	Factors inspired	0.371**
2.	Level of satisfaction in benefits	1

** significant at 1% level

Table 4 depicts the correlation between the factors inspired and level of satisfaction on benefits of terrace gardening. The result showed significant positive relationship (0.371) at 1% level of