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## INDEX

Sr. No.	Title	Author	Subject	Page No.
1	Cost of capital: an empirical case study of hindustan unilever limited	Dr. Vinod K. Ramani	Accountancy	1-2
2	Self Revolution	Mohanapriya.P	Arts	3-4
3	Wound healing activity of Cestrum elegans	V. Subhaa, Dr. D. Sukumarb, Dr. V. Elangoc	Chemistry	5-6
4	Anti Bacterial Activity of Apigenin 7-0-(6"caffeoyl) neohesperidoside from chrysanthemum indicum	M.Jerome Rozario, Dr.A.John Merina, Dr.V.Srinivasana	Chemistry	7-10
5	Adsorption Studies of Cu (II) and Cr (VI) from metal solution using crosslinked chitosan-g-acrylonitrile copolymer	Shankar.P, Gomathi T., Vijayalakshmi.K, Sudha P.N	Chemistry	11-13
6	An Insight into Derivative Markets: Indian Perspective	Dr. C.Shobha, Dr. T. Hanumantha raya	Commerce	14-16
7	Vision and Planning	Dr. J. K Sehgal	Commerce	17-18
8	An Analytical Study of Employee's Productivity in Some Selected Nationalized Banks of India	Dr. Jyotindra M. Jani, Manish B. Raval	Commerce	19-20
9	New Products of Tourism in India	Dr. M. K. Maru	Commerce	21-22
10	Inventory Management in Sugar Mills - A Comparative Study	Promila	Commerce	23-25
11	Price -Mix Strategy of Jammu and Kashmir Co-Operatives Supply and Marketing Federation Limited in Jammu District of J&K State	Tarsem Lal	Commerce	26-28
12	Warehouse Management Information System: A New Perspective in Supply Chain Management	Dr. Vipul Chalotra	Commerce	29-30
13	A Study on Consumer Satisfaction of Aavin Milk in Salem City	Dr.A.Vinayagamoorthy, Mrs. M.Sangeetha, C.Sankar	Commerce	31-33
14	Hybrid Attribute Selection Process for Decision Tree Based Classification Algorithms	Mr. A. Jebamalai Robinson, Mrs. S. C. Punitha, Dr. P. Ranjit Jeba Thangaiah	Computer Science	34-36
15	Visualizing the validation of UML diagrams	Lavleen Kambow	Computer Science	37-38
16	Effectiveness of coconut palm insurance scheme in the coastal belts of India-A SWOT analysis	Prof. (Dr.) D. Rajasenan, Bijith George Abraham	Economics	39-41
17	An Analysis of the Efficiency of Selected Public and Private Banks in India during 2005-2011	Dr.Dinesh Kumar, Sanjeev	Economics	42-44
18	Measurement of Emotional Development of the Students	Dr. Nivedita K. Deshmukh	Education	45-46
19	A comparative study of effect of method of lecture and dramatization of Marathi teaching	Dr. Nivedita K. Deshmukh	Education	47-48
20	Peer pressure-problems and solutions	V.Vaithyanathan, Dr.P.Sivakumar	Education	49-50
21	Language Anxiety In Indian L2 Learners: Male or Female Learners - Who Scores High?	S. Gandhimathi, Dr.R.Ganesan	Education	51-52

22	Topological Characteristics of ECG Signal using Lyapunov Exponent and RBF Network	Abinash Dahal, Deepashree Devaraj, Dr. N. Pradhan	Engineering	53-55
23	Development of slicing package of solid model for cone and sphere in rapid prototyping	Dineshkumar M. Patel, Prof. P.D.Solanki	Engineering	56-58
24	Hardware modeling Simulation with COSSAP	Krunali Amrutlal Ratanpara, Devendra Soni, Shrenik Rajesh Golwelkar	Engineering	59-61
25	Coordination Of Pss And Statcom To Enhance The Power System Transient Stability	Lalit K. Patel, Kaushik M. Sangada, Sunil S. Changlani , Ankit M. Patel	Engineering	62-64
26	Cooling Performance Analysis of Heat Sink	Mr. Pritesh S. Patel, Prof. Dattatraya G. Subhedar, Prof. Kamlesh V. Chauhan	Engineering	65-67
27	Thermal Modeling and Analysis of Friction Stir Welding	Rankit Patel, Prof. Bindu Pillai	Engineering	68-70
28	Review on shrinkage defect – A case study	Mr. Ravi N. Kalotra, Mr. Gajanan Patange, Mr. J.K. Gohil	Engineering	71-75
29	Stream Function Formulation of Lid Driven Cavity	Mr. Zankhan C. Sonara, Prof. Dattatraya G. Subhedar, Mr. Kartik Patel	Engineering	76-78
30	Implementation of ABT (Availability Based Tariff) - its Treatment & Proceedings	Dilip m.Bhankhodiya, Dipak t. Vaghela	Engineering	79-82
31	Active Filters for Power Quality Improvement	Dipak t. Vaghela, Dilip m. Bhankhodiya	Engineering	83-87
32	Design and Analysis of Air Bearing using Orifice and Feed Hole Pocket	Nileshkumar T. Raval, Prof. M.Y.Patil	Engineering	88-90
33	Drip irrigation technique enhancing water and fertiliser use efficiency in cauliflower	Dr. S.S. Yadav, Dr. R.S. Meena	Engineering	91-92
34	Experimental and FEA Evaluation of Hybrid Joint Strength of Single Lap joint.	S. S. Kadam, P. A. Dixit	Engineering	93-96
35	CFD Analysis of Mixed Flow Submersible pump Impeller	Mitul G Patel, Subhedar Dattatraya, Bharat J Patel	Engineering	97-100
36	EVA: An Innovative Parameter for Shareholders' Wealth Measurement	Shri. Arvind A. Dhond	Finance	101-103
37	Profitability and consistency analysis of Textile Sector in India	Dr. K. S. Vataliya, Rajesh Jadav	Finance	104-107
38	Harmonious Relationship between Art and Music Critical vision (comparison)	Dr. Marwan Imran	Fine Arts	108-109
39	Land Use Pattern and Crop Combination Region in Satara District : A Geographical Study	Dr. Rathod S. B., Mane-Deshmukh R. S.	Geography	110-111
40	Garlic---Benefits and Uses	Dr. Sneh Harshinder Sharma	Geography	112-114
41	An Assessment of Thermal Comfort Zones in Terms of Tourists: A case study of Karveer Tehsil	Mr. Prashant Tanaji Patil, Miss. Mane madhuri maruti, Miss. Mugade Nisha Ramchandra	Geography	115-117

42	Hematological changes due to the impact of Lead nitrate on economically important estuarine fish <i>Mystus gulio</i>	Dr.S.Palani Kumar	Horticulture	118-119
43	Stress Management level in the employees of Manufacture Industries By considering key parameters with reference to Bhavnagar city	Dr. K. S. Vataliya, Adv. Ajay H. Thakkar	Human Resource	120-122
44	The Case of ABC Group-A Case on Performance Appraisal System	Shivani Sah	Human Resource Management	123-124
45	A Study On Performance Appraisal of Employees in Health Care Industry in a Private Multi-Speciality Organization	Dr. C. Swarnalatha, T.S. Prasanna	Human Resource Management	125-126
46	(Upnyas - Jansi ki Rani Laxmibai (vrundavanlal varma)	Dr. Sneh Harshinder Sharma	Literature	127-128
47	"Educational Technology for Professional Development of English Teachers: A Case Study of the College Teachers of English in Jammu Province"	Dr. Wajahat Hussain	Literature	129-130
48	The Reality of Sultana's Dream: A step towards success Rokeya Sakhawat Hossein	Riju Sharma, Ruchee Aggarwal	Literature	131-132
49	Road blocks of Match Industry in Andhra Pradesh: Certain Issues and Concerns	Anuradha Averineni	Management	133-134
50	Government's Assistance Towards the Development of Small Scale Industries in India with Special Reference to Krishnagiri District	B. Mohandhas, Dr. G. Prabakaran	Management	135-140
51	Effects of Role Stress on Employee Job Satisfaction and Turnover	Dr. T.G.Vijaya, R.Hemamalini	Management	141-144
52	"MNP – A major concern of Telecom Operators in Gujarat"	Mohsinali Momin, Dr. Deepak H. Tekwani	Management	145-147
53	A Study on Fiscal Support Provided by Vijaya Bank to Msme in Coimbatore City	Mrs. G. Murali Manokari, Mr. G. Lenin Kumar, Mrs. G. Sathiya	Management	148-150
54	Competencies for HR Professionals	GAYATHRI. M	Management	151-153
55	Cost and Strategic Management - Application, Framework and Strategies for the Growth of Sme Sector	Manisha gaur	Management	154-156
56	Development of Management Education System in India	Mr. Goudappa Malipatil	Management	157-158
57	Study on Volatility and Return of Major Indices of Indian Stock Market with Reference to Sensex And Nifty	Mr. Mukesh C .Ajmera	Management	159-160
58	A Need for an Epitome Shift in Management Education A study on Conceptual Teaching practices	Mrs. Vanishree K. Jamashetti, Mr. Sanjeev Rathod	Management	161-162
59	Personal Social Responsibility – A novel thought	Parul Jain, Dr. N.C Pahariya	Management	163-164
60	Green Marketing – A Consumer's Perspective in the Indian Scenario	Nidhi Srivastava, Preeti Pillai	Management	165-166
61	Challenges and Opportunities of Mobile Banking - An Indian Scenario	Sandhya.Ch.V.L	Management	167-169
62	A pragmatic study of civilizing amortment among The diverse countries	Mr. Vimal P. Jagad, Mr Mukesh .C Ajmera	Management	170-171
63	Celebrity Endorsement in India An Effective Tool of Sales Promotion	Piyush Shah, Dr. N C Pahariya	Management	172-176

64	A Study of Prominent Character Strengths and Their Relationship with Well Being Among Business Management Students	GarimaKamboj, DikshaKakkar	Management	177-180
65	Coffee Consumption in India: An Exploratory Study	Shri. Arvind A. Dhond	Marketing	181-183
66	Applicability of Retail Service Quality Scale (RSQS) in India	M. Ramakrishnan, Dr. Sudharani Ravindran	Marketing	184-186
67	Account Holders perceptions towards Self Service Technologies: a study of selected Private Sector Banks	Dr A Kumar, Prof Ankur Gangal	Marketing	187-189
68	Impact of Sales Promotion on Sales figures of Select International FMCG Brands	Dr.Sharif Memon	Marketing	190-193
69	Factors Affecting Green Product Design: Marketing Professional's Perspective	D. S. Rohini Samarasinghe	Marketing	194-196
70	The Impact of 'Ambience' and Variety on Consumer Delight: A Study on Consumer Behaviour in Ahmedabad	Dr A Kumar, Prof Vineeta Gangal	Marketing	197-200
71	Co-Relation of Social Justice with Human Rights: A Review	Dr. Monica Narang	Marketing	201-202
72	Study of Iron Status and Free Radical Activity in Plasmodium Falciparum and Plasmodium Vivax Malaria Infection	Sangita M. Patil, Ramchandra K. Padalkar	Medical Sciences	203-205
73	GOAL SETTING TENDENCIES, COMMUNICATION SKILLS AND WORK MOTIVATION VIS-À-VIS AGE DIFFERENCE – A STUDY ON PUBLIC SECTOR ORGANIZATION	Dr. Swaha Bhattacharya, Dr. Monimala Mukherjee	Psychology	206-208
74	Role of NGOs in Social Mobilization in the context of SGSY	Dr.Veershetty C. Tadalapur	Sociology	209-211
75	Age at menarche and its secular trend in rural and urban girls of bathinda district	Jyoti Sharma, Dr. Ajita	Sports Science	212-213
76	Effect Of Resin Finishing On Stiffness And Drape Of Khadi Fabric	Dr. Suman pant, Ms. Noopur Sonee	Textiles	214-216



## An Assessment of Thermal Comfort Zones in Terms of Tourists: A case study of Karveer Tehsil

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### ABSTRACT

*Climate has a strong influence on the tourism and recreation sector. Thermal comfort is one of the important considerations in tourism activity. Thermal comfort is a complex entity. Comfort zone delineate specific combinations of temperature and relative humidity (RH) ranges. These zones are different for winter and summer conditions. For the determination of comfort zone climograph is employed. On the basis of the zones of climograph comfort level is decided. This analysis helps to determine, which month in a year offers comfortable climatic condition for visit of tourists. So, this analysis supports to improve qualitative and quantitative tourism.*

**Keywords : Thermal comfort, climograph, scales of discomfort**

### Introduction

Thermal comfort is a complex entity. Several indices have been put forward from time to time to express thermal comfort and heat stress. In that case, two important indices are; air temperature and relative humidity, which decided the comfort level of a place. There is no unanimous decision on a single zone of comfort for all people because comfort is quite a complex subjective experience which depends not only on physical factors, but also on psychological factors which are difficult to determine (<http://docs.google.com>)

The comfort zone is a behavioural state within which a person operates in an anxiety neutral condition, using a limited set of behaviors to deliver a steady level of performance, usually without a sense of risk (White, 2009). Comfort zone delineate specific combinations of temperatures and relative humidity (RH) ranges where statistical tests have shown 80 % of the tested population to be comfortable.

The climograph is employed for the determination of comfort zones. This graph shows the interrelationship between two climatic variables, wet-bulb temperature and relative humidity. On the basis of the climatic zones in climograph the comfort level is determine for selected tourist places. This analysis helps to denote, which month in a year represents the comfortable climatic condition for the tourists to visit the study area. So, this supports to improve qualitative and quantitative tourism in study area.

### Objectives

1. To find out the thermal comfort zones for tourism activity in the study area.
2. To recommends some suggestions in order to improve the tourists comfort.

### Data Base

In order to meet above mentioned objectives the required data is mainly collected from the secondary sources. The secondary data is collected from the State Data Storage Center (SDSC) at Nashik. The other related data is collected District census handbook, Socio-economic review of Kolhapur district, Website of Kolhapur Municipal Corporation and avail-

able published and unpublished material, internet, Books and Maps.

### Methodology

Griffith Taylor's climograph method is used to find out the thermal comfort zones. This graph represents two climatic variables at any one place, in which one variable (relative humidity) is plotted on abscissa and another (wet bulb temperature) is plotted on the ordinates. This graph is twelve sided figure. Each of twelve points showing wet-bulb temperature and relative humidity for individual month and it is marked by initial letters of the months and this twelve points joined together systematically with the help of scale. The four quadrants NW, NE, SE and SW represent the climatic condition as Scorching, Muggy, Raw and Keen respectively. With the help of these four zones the comfortable climatic conditions for human beings are identified.

### A tentative scale of discomfort –Suggested by Taylor

- 40oF to 45oF- (Very rarely uncomfortable)
- 45oF to 55oF- (Ideal)
- 55oF to 60oF- (Very rarely uncomfortable)
- 60oF to 65oF- (Sometimes uncomfortable)
- 65oF to 70oF- (Often uncomfortable)
- 70oF to 75oF- (Usually uncomfortable)

### Study Area

The present study is restricted to Karveer tehsil. The Karveer tehsil is situated in the northern part of Kolhapur district of Maharashtra. It lies between 16o 42' 50" north to 16o 43' 55" north latitude and 74o 10' 52" east to 74o 11' 57" east longitude. The tehsil is well connected by rail and road with the major cities of India viz. Mumbai, Bengaluru, New Delhi and other important cities of Maharashtra like Pune, Sangli, and Miraj. The Karveer tehsil covered an area of 671.1 sq. km. It shares 8.2 percent of total area of Kolhapur district. The east-west width of tehsil is 30.20 km. And north-south length is 23.40 km. The study area is a part of Krishna basin (2nd largest river of south India) and is drained by Panchaganga River, a major tributary of Krishna River.

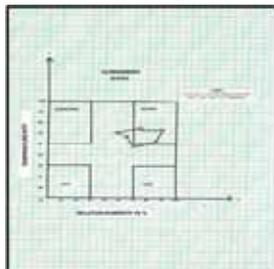
### An Assessment of Thermal Comfort Zones in the Study

**Area (from 1995-2009)**

The climograph-A is a twelve sided graph, which shows the climatic conditions of Karveer tehsil. The average climatic conditions as per the climograph for year 1995 are unpleasantly warm & damp throughout the year. But specifically the three months January, February and March represents the pleasant/comfortable climatic conditions for human beings with less than 70 per cent relative humidity with wet bulb temperature near about 60 to 70oF (fig. 1). The climograph-B shows the climatic conditions of January and February months are comfortable to some extent due to decline in temperature below 60oF with relative humidity 70 to 80 per cent. The remaining months with temperature more than 60oF and relative humidity is more than 70 per cent indicates usually uncomfortable condition, which represents unpleasantly warm and damp weather (fig. 2). The curvature on the climograph-C displays the climatic conditions of Karveer tehsil in 1997. In general, there is muggy climatic condition. The February month shows the ideal climatic condition with temperature below 55oF, while the January month displays very rarely uncomfortable climatic condition for human beings (fig. 3).

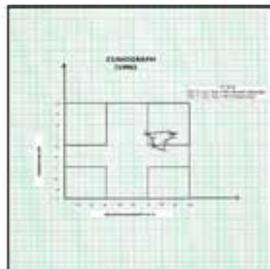
As per the climograph-D, the climatic condition of April to October months indicates the usually uncomfortable conditions for human beings with the more than 70oF temperature, while remaining months viz: January, February and December shows the unpleasantly warm and damp weather because of very high humidity and temperature (fig. 4). The climograph-E of year 1999 denotes that the climatic conditions of Karveer tehsil in the month of January are very rarely uncomfortable, while in the month of December climatic conditions are sometime uncomfortable. All remaining months are come under the muggy zone, which displays the unpleasantly warm and damp weather (fig. 5). The Climograph of the Karveer tehsil of year 2000 represents the muggy climatic conditions throughout the year. The months from February to November expresses the muggy climatic condition, which means that the weather is unpleasantly warm and damp. The January month denotes unusually uncomfortable condition, besides that month of December also has comfortable climatic conditions with temperature below 60oF (fig. 6). The climograph-G characterizes the muggy climatic condition with slight variations in average figures of

relative humidity. The months of January to November comes under the unpleasantly warm and damp weather conditions. Only the month of December come under the unusually uncomfortable weather condition, which means December month has comfortable climatic conditions in terms of Tourists (fig. 7). All months in year 2002, except January and December, shows the high temperature (above 70oF) and also very high humidity (above 75 %). Therefore, the average condition of the study area denotes unpleasantly warm and damp weather (fig. 8). The slanted line on the climograph-I shows that all the months are come under the muggy climatic condition with temperature more than 60oF and relative humidity more than 75 per cent. The average weather condition denotes that the study area has unpleasantly warm and damp weather (fig. 9). The climograph-J indicates that the months of January, February, November and December have sometimes comfortable thermal conditions for human beings due the decrease in temperature. The average climatic conditions of remaining months represent the unpleasantly warm and damp weather (fig. 10). The climograph-K represents the months of January and February represents the comfortable weather conditions to some extent due to the lower temperature (below 65oF). While remaining all months have high temperature and high relative humidity, which indicates the unpleasantly warm and damp weather (fig. 11). The climatic conditions of Karveer tehsil of year 2006 are displayed by climograph-L. The months of January to October and December having very high temperature and relative humidity, therefore, all above mentioned months represents the unpleasantly warm and damp weather conditions. The month of November come under the unusually uncomfortable condition with high temperature, but low relative humidity (fig.12).



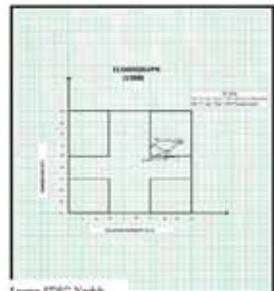
Climograph-A: 1995

Figure 1



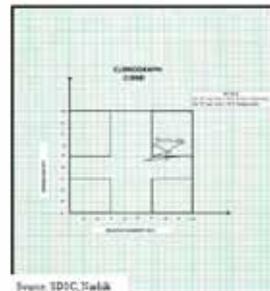
Climograph-B: 1996

Figure 2



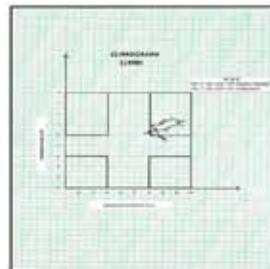
Climograph-C: 1997

Figure 3

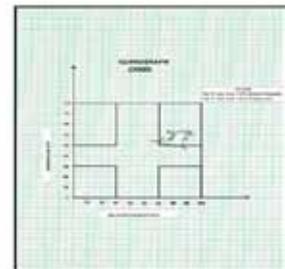


Climograph-D: 1998

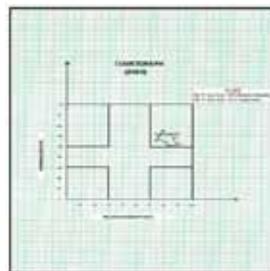
Figure 4



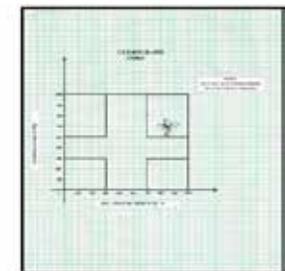
Climograph-E: 1999  
Figure 5



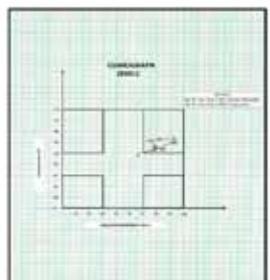
Climograph-F: 2000  
Figure 6



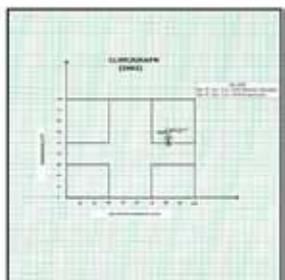
Climograph-G: 2001  
Figure 7



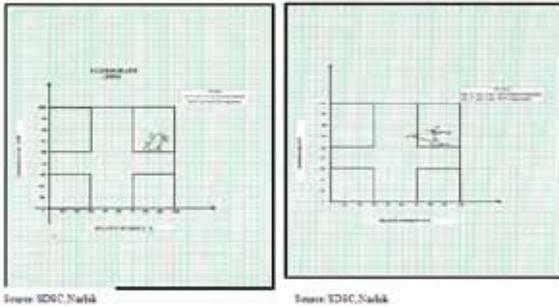
Climograph-H: 2002  
Figure 8



Climograph-I: 2003  
Figure 9



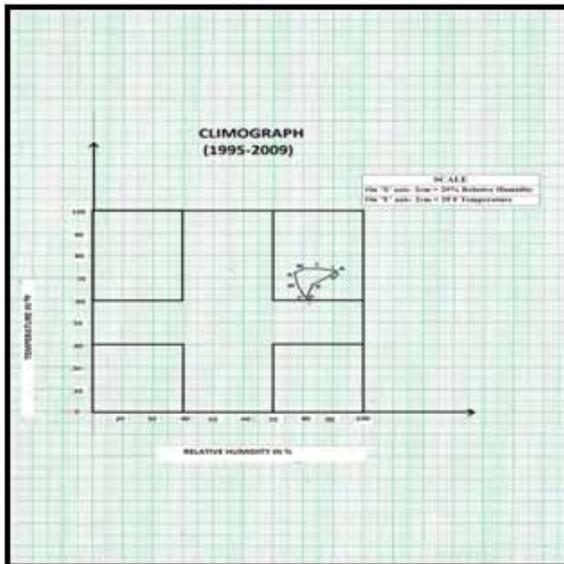
Climograph-J: 2004  
Figure 10



Climograph-K: 2005  
Figure 11

Climograph-L: 2006  
Figure 12

Climograph-M: 2007  
Figure 13  
Climograph-N: 2009  
Figure 14



Climograph-O: 1995-2009  
Figure 15

The climograph-M of the Karveer tehsil of this particular year indicates that the months of January, February and December come under the sometimes uncomfortable zone and months of November and March come under often uncomfortable climatic zone. Remaining months are come under the usually uncomfortable conditions (fig.13). This climograph-N illustrates that most of the months in that specific year displayed the temperature more than 70oF and relative humidity above 80 per cent. Therefore, the entire study area represents the unpleasantly warm and damp weather conditions (fig. 14).

**Conclusion**

For the present investigation, the climatic data from year 1995 to 2009 is employed to find out the thermally comfort zones in study area. As per the technique devised by G. Taylor, most of the part of study area incorporated in Muggy climatic conditions with temperature above 60oF and relative humidity more than 70 per cent. Therefore, the study area characterizes the unpleasantly warm and damp weather conditions, which is sometimes thermally uncomfortable for human beings. But the average climatic conditions of the months of January, February, November and December represents the pleasant/ comfortable climatic conditions for human beings with less than 70 per cent relative humidity and near about 60 to 70oF wet bulb temperature. Therefore, the months of January and February are all time suitable/comfortable months for tourists to visit the tourists' places in Karveer tehsil, while, most of the time, the months of November and December are comfortable but sometime this months are rarely uncomfortable for tourists to visit.

**Suggestions**

The average climatic conditions of the January, February, November and December months represents the pleasant/ comfortable climatic conditions (as per the G. Taylor's technique) for human beings with less than 70 per cent relative humidity and near about 60 to 70oF wet bulb temperature. Therefore, the months of January, December are the very suitable months for tourists to visit the tourist places in Karveer tehsil. Whereas, the months of February and November are most of the times comfortable but some time represents unfavorable climatic conditions.

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