



## LIST OF ABBREVIATIONS

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| CO <sub>2</sub> | Carbon dioxide                                      |
| CPCB            | Central Pollution Control Board                     |
| MoEF            | Ministry of Environment and Forest                  |
| GTZ             | German Technical Co-operation                       |
| ASEM            | Advisory Services in Environmental Management       |
| NEERI           | National Environment Engineering Research Institute |
| PEN             | Participatory Employment Net                        |
| UNDP            | United Nations Development Program                  |
| GEF             | Global Environment Facility                         |
| SGP             | Small Grants Program                                |
| HCC             | Hindustan Construction Company                      |
| m               | Meter                                               |
| IT              | Information technology                              |
| ITES            | Information Technology Enabled Service              |
| IE              | Industrial Estates                                  |
| Ind.            | India                                               |
| Co.Op           | Co-operative                                        |
| BIDC            | Baroda Industrial Development Corporation           |
| VUDA            | Vadodara Urban Development Authority                |
| S.E.            | Shannon's Entropy                                   |
| U.S.I           | Urban Sprawl Index                                  |
| L.C.R.          | Land Consumption Rate                               |
| L.A.C.          | Land Absorption Coefficient                         |

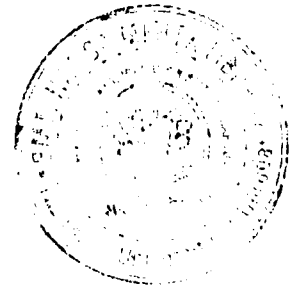
## **LIST OF ABBREVIATIONS (Cont.)**

|             |                                        |
|-------------|----------------------------------------|
| VMSS        | Vadodara Municipal Seva Sadan          |
| UGS         | Urban Green Space                      |
| UHI         | Urban Heat Island                      |
| GIS         | Geographical Information System        |
| NDVI        | Normalized Difference Vegetation Index |
| EM spectrum | Electromagnetic Spectrum               |
| NIR         | Near Infrared                          |
| WHO         | World Health Organization              |
| FAO         | Food and Agriculture Organization      |
| sq.m.       | Square Meter                           |
| LST         | Land Surface Temperature               |
| P.D.        | Population density                     |
| NDBI        | Normalized Differential Building Index |
| B.D.        | Building density                       |
| LSA         | Land suitability analysis              |
| SOI         | Survey of India                        |
| IRS         | Indian Remote Sensing Satellite        |
| LISS        | Linear Imaging Self-Scanning System    |
| MIR         | Mid Infrared                           |
| SWIR        | Short Wave Infrared                    |
| Pan         | Panchromatic                           |
| Erdas       | Earth Resources Data Analysis System   |
| GCP         | Ground Control Points                  |



## LIST OF ABBREVIATIONS (Cont.)

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| ISRO               | Indian Space Research Organization                              |
| A                  | areal extent of the city                                        |
| P                  | population                                                      |
| NNRMS              | National Natural Resources Management System                    |
| Landsat ETM+       | Landsat Enhanced Thematic Mapper Plus                           |
| DN                 | Digital Number                                                  |
| L                  | Radiance                                                        |
| W                  | Watt                                                            |
| sr                 | steradian                                                       |
| $\mu\text{m}$      | micrometer                                                      |
| lm                 | lumen                                                           |
| K                  | Kelvin                                                          |
| BT                 | Brightness Temperature                                          |
| USAP module        | Urban Suitability Analysis Package module                       |
| km                 | Kilometer                                                       |
| NH                 | National Highway                                                |
| R.C.Dutt Road      | Romesh Chunder Dutt Road                                        |
| GIDC               | Gujarat Industrial Development Corporation                      |
| UNEP GEO           | United Nations Environment Programme-Global Environment Outlook |
| T.P.               | Town Planning                                                   |
| GB                 | Greenbelt                                                       |
| $^{\circ}\text{C}$ | Celsius                                                         |
| Veg.               | Vegetation                                                      |



**LIST OF ABBREVIATIONS (Cont.)**

|      |                                             |
|------|---------------------------------------------|
| PCA  | Principal Component Analysis                |
| PC   | Principle Component                         |
| SPSS | Statistical Package for the Social Sciences |
| CNG  | Compressed Natural Gas                      |
| APTI | Air Pollution Tolerance Index               |
| AA   | Amino Acid                                  |
| RWC  | Relative Water Content                      |
| TCh  | Total Chlorophyll                           |