

LIST OF ABBREVIATIONS	
CGWB	Central Ground Water Board
BCM	Billion cubic meters
GoI	Government of India
MCM	Million cubic meters
IRMA	Institute of Rural Management Anand
WFR	Westerly flowing river
NGO	Non-governmental organization
GSI	Geological Survey of India
GSDMA	Gujarat State Disaster Management Authority
NBSS	Natural Bureau of soil science
ASTER	Advanced Spaceborne Thermal Emission and Reflection
LISS	Linear Imaging Self Scanner
USGS	United States Geological Survey
NRSC	National Remote Sensing Centre
IBM	International Business Machines Corporation
SPSS	(Statistical Package for the Social Sciences) software package for statistical analysis from IBM
GPS	Global Positioning System
GMS	Groundwater Modeling System
GHz	Gigahertz
RAM	Random Access Memory
GB	Giga byte
GWRDC	Gujarat Water Resources Development Corporation
TDS	Total Dissolved Solids
KDP	Kutch Development Plan
AHP	Analytic Hierarchy Process

DRASTIC	D- Depth to Water; R- Net Recharge; A- Aquifer Media S- Soils; T- Topography; I- Impact of Vadose Zone; C- Hydraulic Conductivity
MODFLOW	U.S. Geological Survey modular finite-difference flow model
IMD	India Meteorological Department
MSL	Mean Sea Level
Sq. km	Square Kilometers
mtr	Meters
Mw	Mega Watt
mm	Milimeter
NW	North West
C	Centigrade
Kmpd	Kilometer per day
MJ	Joules
m ²	Meter Square
SEZ	Special Economic Zone
km	Kilometer
etc	Et cetera (And the rest)
M/F	Male to Female Ratio
SDA	Study Area
RWH	Rainwater Harvesting System
KAP	Knowledge, Awareness & Perception
GIS	Geographic Information System
Landsat TM	Thermal Mapper
LU/LC	Land Use and Land Cover
GLCF	Global Land Cover Facility
NCR	National Capital Region
Mag & Intn	Magnitude & Intensity
SC	Schedule Castes

ST	Schedule Tribes
ML	Richter local magnitude
NS	North South
NNE	North North East
SSW	South South West
SE	South East
EW	East West
mbgl	metres below ground level
TDS	Total Dissolved Solids
ma	Million years ago
cm	Centimeter
KHF	Katrol Hill Fault
KMF	Kachchh Mainland Fault
et al	and others
e.g	Exempli gratiā, "for example"
3-D	Three Dimentional
DEM	Digital Elevation Models
SRTM	Shuttle Radar Topography Mission
ASTER	Advanced Spaceborne Thermal Emission and Reflection
SPOT	Satellites Pour l'Observation de la Terre or Earth-observing Satellites
CARTOSAT	Cartography and Satellite Sensor
IRS	Indian Remote Sensing
SWL	Static Water Level
wrt	With respect to
MSL	Mean Sea Level
GWSSB	Gujarat Water Supply and Sewerage Board
SP	Self Potential
WQI	Water quality index

CGWB	Central Ground Water Board
IDW	Inverse Distance Weighted
pH	Potential of hydrogen' is a scale of acidity from 0 to 14
CO ₃	Carbon trioxide
H ⁺	Hydrogen ions
NO _x	Nitrogen oxides
SO ₂	Sulfur dioxide
mg/l.	Miligram per litre
STD DEV	Standard deviation
EPA	European Space Agency
HCO ₃	Bicarbonate
NaCl	Sodium chloride
KCl	Potassium chloride
CaCl ₂	Calcium chloride
SO ₄ ⁻⁻	Sulfate
Na ⁻	Sodium
ppm	Parts per million
Na ₂ CO ₃	Sodium carbonate
NaHCO ₃	Sodium bicarbonate
Anjar (M)	Anjar Municipality
GSDMA	Gujarat State Disaster Management Authority
CAZRI	Central Arid Zone Research Institute
Vs	Versus / against
SCS	Soil Conservation Service
NRSC	National Remote Sensing Centre
CN	Runoff Curve Number
I _a	Initial abstraction
Eq	Equation

USDA	United States Department of Agriculture
HSG	Hydrologic Soil Group
hrs	Hours
VF	Valley Fill
PPM	Pediplain Moderate
PPS	Pediplain Shallow
LR	Linear ridges
MCE	Multi-Criteria Evaluation
AHP	Analytical Hierarchy Process
N	Number
CI	Consistency Index
RCI	Random Consistency Index
CR	Consistency ratio
DW	Dug Well
BW	Bore Well
TW	Tube Well
LPM	Litres Per Minutes
cu.m	Cubic Meter
NP	Non-Potable
P	Potable
PT	Percolation Tank
CD	Check Dam
NB	Nala Bund
RW	Recharge Wells
DT	Desilting of Tank
RP	Recharge Pit
GW	Ground water
GPS	Global Positioning System

CGM	Commissioner of Geology and Mining
ESRI	Environmental Systems Research Institute
GSDMA	Gujarat State Disaster Management Authority
GSI	Geological Survey of India
Modflow	U.S. Geological Survey modular finite-difference flow model
IMD	India Meteorological Department
EVT	Evapotranspiration package of GMS
ET	Evapotranspiration