

List of abbreviations used in this thesis

a	Annum
AD	Years after the birth of Jesus
^{14}C	Carbon
^{230}Th	Thorium
$^{230}\text{Th} / ^{234}\text{U}$	Uranium-thorium dating, also called thorium-230 dating.
^{234}U	Uranium
^{40}K	Potassium
ABF	Allahbund Fault
amsl	above mean sea level
ASTM	American Society for Testing and Materials
ARI	Agharkar Research Institute, Pune
BHG	Banni Half Graben
BL	Bhuj low
BP	Before present, i.e Present referring to the year 1950 AD.
BTZ	Bet Zone
C^{14}	Carbon-14 dating
Ca	Around-About
CAM	Central Age Model
CHR	Central Highland Range
CHR	Central Hill Range
CL / BLGO	Canyon Limestone/ Badi Lower Golden Oolite
Coord	Coordinator
CSIR	Council of Scientific & Industrial Research
DEM	Digital Elevation Model
DEM	Digital Elevation Model
Dept	Deaprtment
DGM	Deputy General Manager
Dr	Has obtained a doctoral degree
EDX	Energy Dispersive X-ray Spectroscopy

ESR	Electron Spin Resonance
FA	Fakirwadi Area
FMM	Finite Mixture Modeling (FMM)
Fmr	Former
Ga	Gangeswar Area
GBZ	Great Barren Zone
GF	Gedi Fault
GOKHG	Gulf of Kachchh Half Graben
GSi	Geological Society of India
GYF	Gora dungar-Yellow flagstone member
IBF	Island Belt Fault
IBI	Island Belt Upland
IBU	Island Belt Uplift
ICS	International Commission on Stratigraphy
ISB	Island Belt
ISC	Indian Science Congress
ISM	Indian summer monsoon
ISR	The Institute of Seismological Research,Gandhinagar.
IUGS	International Union of Geological Sciences
JCL	Jumara Coral Limestone Member
JGO	Jhura Golden Oolite Member
Ka / kyr	Thousand years
KA	Kotda Roha Area
Kachchh University	Krantiguru Shyamji Krishna Verma Kachchh University,Bhuj
KHF	Katrol Hill Fault
KHR	Katrol Hill Range
KMF	Kachchh Mainland Fault,
KMU	Kachchh Mainland Uplift
KR	Kachchh Rift
KU	Kathiyawar Uplift

LED	Light Emitting Diode
LGM	Last Glaciations Maxima
LISS-III	(Linear Imaging Self Scanning Sensor) sensor is an optical sensor working in four spectral bands (green, red, near infrared and short wave infrared). It covers a 141km-wide swath with a resolution of 23m in all spectral bands.
LRK	Little Rann of Kachchh
Lst	Limestone
LTZ	Linear Trench Zone
M S Uni	The Maharaja Sayajirao University of Baroda,Vadodara.India
M.S.L./msl	Mean Sea Level
Ma	Million years
MAM	Minimum Age Model
mb	Member
MH	Median High
MIS	Marine Isotope Stage
MS	Magnetic Susceptibility
NET	National Eligibility for Lectureship Test
NGO	Non Governmental Organization
NHR	Northern Hill Range / Northern Highland Range
NKF	North Kathiawar Fault
NKHF	North Katrol Hill Fault
Nod	Nodular
NPF	Nagar Parkar Fault
NPU	Nagar Parkar Uplift and.
NPU	Nagar Parkar Uplift
ONGC	Oil and Natural Gas Corporation Limited
OSL	Optically-Stimulated Luminescence
op.	(Latin-Opere Citato)-earlier in the text, used in starting or end note
Ph.D.	Doctor of Philosophy

Pos	Position
Prof.	Professor
PU	Pancham Uplift
RISO	National Laboratory for Sustainable Energy, Technical University of Denmark (DTU)
RHG	Rann Half Graben
SAR	Single-aliquot regenerative dose
SEM	Scanning Electron Microscope
SKHF	South Katrol Hill Fault
SOI	Survey of India
SRTM	Shuttle Radar Topography Mission
sst	Sandstone
SWF	South Wagad Fault
TF	Transverse Fault
UGC	University Grants Commission
VA	Varli Area
VF	Vigodi Fault
vs	Versus
VGKDZ	Vigodi-Gugriana-Khirsara Deformation Zone
WU	Wagad Uplift
XRF	X-ray fluorescence spectrometry