

ABBREVIATIONS

^1H NMR – Proton NMR	$\text{K}_2\text{Cr}_2\text{O}_7$ – Potassium dichromate
CaCO_3 – Calcium carbonate	KP – Kyoto protocol
$\text{CaMg}(\text{CO}_3)_2$ – Dolomite	PRL – Physical research laboratory
CFC – Chlorofluorocarbons	Kg – Kilograms
CH_4 – Methane	ANOVA – Analysis of variance
CO – Carbon monoxide	MBC – Microbial biomass carbon
CO_2 – Carbon dioxide	GPP – Gross primary production
CO_3^{2-} – Carbonate ions	g – gram
FAO – Food and agriculture organisation of the United Nations	t – tonne (10^6 grams)
FSI – Forest survey of India	HF – Hydrofluoric acid
GHGs – Green house gases	cm – Centimetre
HCO_3^- - Bicarbonate ions	m -Meter
HFC – Hydrofluorocarbon	Mha – Million hectare
IGBP – International geosphere biosphere programme	Mg – Mega gram
IPCC – Inter Governmental Panel on Climate Change	WB – Walkley and Black method
N_2 – Nitrogen	Gt – Gigatonne (10^9 tonnes)
N_2O – Nitrous oxide	Pg – Petagram (10^{15} gram)
NOAA – National Oceanic and Atmospheric Administration	BD – Bulk density
OC – Organic carbon	NEP – Net ecosystem production
OM – Organic matter	LUCS – Land use and carbon sequestration
PFC – Perfluorocarbons	H_2SO_4 – Sulphuric acid
SF_6 – Sulphur hexafluorides	HCl – Hydrochloric acid
SOC – Soil organic carbon	CDM – Clean development mechanism

SOM – Soil organic matter

USDA – U.S. Department of agriculture

SWS – Shoolpaneshwar wild life
sanctuary

pMC – percent modern carbon

UNFCCC – United Nations Framework
Convention on Climate Change

NMR – Nuclear magnetic resonance
spectroscopy

H₃PO₄ – Orthophosphoric acid

β – beta

NaF – Sodium fluoride

FeSO₄ · 7H₂O – Ferrous sulphate

Fe (NH₄)₂(SO₄)₆H₂O – Ferrous
ammonium sulphate

M - Molar

VPDB – Vienna Pee Dee Belemnite

NaOH – Sodium hydroxide

LM_i – Initial litter mass

LM_r – Remaining litter mass

K₂SO₄ – Potassium sulphate

ha - hectare

δ¹³C – ¹³C/¹²C

C - Carbon