

LIST OF ABBREVIATIONS

Abbreviation	Full form
AAS	Atomic Absorption Spectroscope
AATCC	The American Association of Textile Chemists and Colorists
AOX	Adsorbable Organic Halogen
APHA	American Public Health Association
APO	Aziridinyl Phoshine Oxide
ASTM	American Society for Testing and Materials
BI	Brightness Index
BOD	Biological Oxygen Demand
BS-EN	British Standard- European Standard
CCMS	Computer Colour Matching System
CD	Cyclodextrin
CHT	Chitosan of molecular weight 135,869
CHT-D1	Chitosan of molecular weight 285,231
CHT-D2	Chitosan of molecular weight 71,676
CHT-D3	Chitosan of molecular weight 38,733
CHT-D4	Chitosan of molecular weight 20,698
CHT-D5	Chitosan of molecular weight 11,986
CHT-MC	Chitosan of molecular weight 654,127
CHTN	Nano chitosan synthesized from CHT
C.I.	Colour Index
COD	Chemical Oxygen Demand
Conc	Concentration
CRA	Crease Recovery Angle
DAC	Degree of Deacetylation
DEAE	Diethylaminoethyl Chloride
DEAEMA	Diethyl Amino Ethyl Methacrylate
DMDHEU	Dimethylol Dihydroxy Ethylene Urea
DMF	Dimethyl Formamide

DNA	Deoxyribonucleic Acid
DMSO	Dimethyl Sulphoxide
DP	Degree of Polymerization
DQ	Degree of Quaternization
DS	Degree of Substitution
EDTA	Ethylene Diamine Tetra Acetic Acid
EPI	Ends Per Inch
FTIR	Fourier Transform Infrared
g/dL	Grams Per Decilitre
g/L	Grams Per Litre
GlcN	Glucosamine residue
GlcNAc	<i>N</i> - Acetyl Glucosamine residue
¹ H-NMR	Proton Nuclear Magnetic Resonance
HTCC	<i>N</i> -[(2-Hydroxy-3- Trimethylammonium) Propyl] Chitosan Chloride
IS	Indian Standard
ISO	International Organization for Standardization
K/S	Kubelka Munk constant
LD	Lethal Dose
MLR	Material-to-Liquor Ratio
m/min	Meters Per Minute
mg/L	Milligrams Per Litre
mRNA	<u>messenger</u> Ribonucleic Acid
Mol wt	Molecular Weight
Mv	Viscosity Average Molecular Weight
N-Bu CHT	<i>N</i> -Butyl Chitosan
N-Bz CHT	<i>N</i> -Benzyl Chitosan
N-Dod CHT	<i>N</i> -Dodecyl Chitosan
N-Et CHT	<i>N</i> -Ethyl Chitosan
NMP	<i>N</i> -Methyl-2-Pyrrolidone
N-Np CHT	<i>N</i> -(1-Naphthyl) Methylene Chitosan
NTA	Nitrilo Triacetic Acid

O.D.	Optical Density or Absorbance
o.w.m.	On Weight of Material
PEG	Polyethylene Glycol
pdi	Polydispersity Index
PPI	Picks Per Inch
ppm	Parts Per Million
RO	Reverse Osmosis
rpm	Rotations Per Minute
SASMIRA	The synthetic and art silk mills research association, Mumbai, India
SDC	Society of Dyers and Colourists
sec	Seconds
SEM	Scanning Electron Microscope
SITRA	South India Textile Research Association, Coimbatore, India
TDS	Total Dissolved Solid
TMCHT	<i>N, N, N</i> -Trimethyl Chitosan Chloride
TPP	Pentasodium tripolyphosphate
THPC	Tetrakis Hydroxymethyl Phosphonium Chloride
UF	Urea Formaldehyde Resin
WI	Whiteness Index
WHO	World Health Organization
YI	Yellowness Index