

LIST OF ABBREVIATIONS

AASHTO	American Association of State Highway and Transportation Officials
AC	Asphalt Concrete
AFT	Apparent Film Thickness
AI	Ageing Index
AMPRI	Advanced Materials and Processes Research Institute
ASCE	American Society of Civil Engineers
ASTM	American Society of Testing and Material
BC	Bituminous Concrete
BIS	Bureau of Indian Standards
BS	British Standard
CBR	California Bearing Ratio
CL	Cantabro Loss
CPWD	Central Public Works Department
DBM	Dense Bituminous Macadam
DMA	Dynamic Mechanical Analysis
DSR	Dynamic Shear Rheometer
FM	Fineness Modulus
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GL	Glass - Hydrated Lime
GP	Glass Powder
GSB	Granular Sub-base
GTRV	Global Total Rank Value
HMA	Hot Mix Asphalt
HL	Hydrated Lime
Hz	Hertz
IIT	Indian Institute of Technology
IIT (BHU)	Indian Institute of Technology (Banaras Hindu University)
INR	Indian Rupee
IRC	Indian Road Congress
IS	Indian Standards

ISSA	International Slurry Seal Association
ITFT	Indirect Tensile Fatigue Test
ITS	Indirect Tensile Strength
KS	Kota Stone
LAS	Linear Amplitude Sweep
LDF	Lateral Distribution Factor
LTA	Long-Term Aged
LVDT	Linear Vertical Displacement Transducers
LVE	Linear Viscoelastic
MBV	Methylene Blue Value
MEPDG	Mechanistic Empirical Pavement Design Guidance
MoRTH	Ministry of Road Transport and Highways
MQ	Marshall Quotient
MS	Marshall Stability
MSCR	Multiple Stress Creep and Recovery
NCAT	National Centre for Asphalt Technology
NCHRP	National Cooperative Highway Research Program
NMAS	Nominal Maximum Aggregate Size
OBC	Optimum Bitumen Content
PA	Porous Asphalt
PATTI	Pneumatic Adhesion Tensile Testing Instrument
PAV	Pressure Ageing Vessel
PG	Performance Grade
PI	Plasticity Index
PMB	Polymer Modified Bitumen
RMS	Retained Marshall Stability
RTFOT	Rolling Thin Film Oven Test
RV	Rank Value
SD	Stone Dust
SEM	Scanning Electron Microscopy
SHRP	Strategic Highway Research Program
SMA	Stone Matrix Asphalt
SP	Special Publication
STA	Short-Term Aged
TFO	Thin Film Oven

TRB	Transportation Research Board
TRV	Total Rank Value
TSR	Tensile Strength Ratio
UA	Un-aged
USA	United States of America
UTM	Universal Testing Machine
VA	Air Voids
VECD	Viscoelastic Continuum Damage
VDF	Vehicle Damage Factor
VG	Viscosity Grade
VFB	Voids Filled with Bitumen
VMA	Voids in Mineral Aggregate
WMM	Wet Mix Macadam
XRD	X-Ray Diffraction
XRF	X-Ray Fluorescence
G^*	Complex shear modulus
G_{mb}	Bulk specific gravity of bituminous mix
G_{mm}	Theoretical maximum specific gravity of bituminous mix
δ	Phase angle
C_u	Coefficient of Uniformity
C_c	Coefficient of Curvature
D_{50}	Particle size corresponds to 50% passing
G_0	Initial linear viscoelastic modulus
J_{nr}	Non Recoverable Creep Compliance
M_r	Resilient Modulus
N_f	Fatigue Life of Mastic
S_s	Aggregate Specific Surface
%R	Percentage Recovery
ω	Angular frequency
Δt	Time lag between stress and strain
τ_{max}	Maximum shear stress
γ_{max}	Maximum shear strain