

LIST OF ABBREVIATIONS

CR	Crumb Rubber
CRM	Crumb Rubber Modifier
CRMB	Crumb Rubber Modified Bitumen
DCR	Desulfurized Crumb Rubber
DCRMB	Desulfurized Crumb Rubber Modified Bitumen
PET	Polyethylene Terephthalate
NHDP	National Highways Development Program
SHIP	State Highways Improvement Programs
PMGSY	Pradhan Mantri Gram Sadak Yojana
ASTM	American Society for Testing and Materials
SARA	Saturates, Aromatics, Resin, and Asphaltene
BIS	Bureau of Indian Standards
IRC	Indian Road Congress
DSR	Dynamic Shear Rheometer
BBR	Bending Beam Rheometer
EN	European Norm
SBS	Styrene Butadiene Styrene
FTIR	Fourier Transform Infrared Spectroscopy
¹ H NMR	Proton Nuclear Magnetic Resonance
DSC	Differential Scanning Calorimetry
RV	Rotational Viscometer
AC	Asphalt Cement
LDH	Layer Double Hydroxides
SBR	Styrene Butadiene Rubber
XRD	X-Ray Diffraction
HDPE	High-Density Polyethylene

LDPE	Low-Density Polyethylene
POE-g-MA	Maleic anhydride-grafted ethylene-octene copolymer
GRT	Ground Tire Rubber
ATR-FTIR	Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy
SEM	Scanning Electron Microscopy
TGA	Thermal Gravimetric Analysis
AA	Acrylic Acid
RTR-MB	Recycled Tire Rubber Modified Bitumen
S	Sulfur
TOR	Trans-Polyoctenamer Rubber
TPE	Thermoplastic Elastomer
DV	Dynamic Vulcanization
DD	Dynamic Devulcanization
EVA	Ethylene Vinyl Acetate
HMA	Hot Mix Asphalt
VG	Viscosity Grade
PG	Performance Grade
Min.	Minimum
Max.	Maximum
DDA	Dodecylamine
AASHTO	American Association of State Highway and Transportation Officials
DETA	Diethylenetriamine
ER	Elastic Recovery
EU	Europe
US	United States
IS	Indian Standard
MMT	Million Metric Tones

MT	Million Ton
MP	Melting Point
MSCR	Multiple stress creep recovery
PAV	Pressure Aging Vessel
PMB	Polymer Modified Bitumen
SP	Softening Point
RTFO	Rotating Thin Film Oven
TFOT	Thin Film Oven Test