

Experimental investigation of low viscosity grade binder modified with Fischer Tropsch-Paraffin wax

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Abstract

The purpose of this study aims at investigating the effect of “Fischer Tropsch-Paraffin wax” (Sasobit) on the properties of low viscosity grade bitumen. Bitumen with viscosity grade-10 is selected as the control binder and later it is modified with different additive dosages of Sasobit (1–5%). Penetration, softening point and ductility tests were employed for evaluating the effect of Sasobit on basic physical properties of modified bitumen. A Dynamic Shear Rheometer (DSR) is also utilized for evaluating the rheological properties of the base and modified bitumen, for both aged and unaged bitumen. Based on the