

summary of the same is provided below for your reference.

Type of Bitumen	Required Quantity (MT) (May to July)	Required Quantity (Ltr) (August to October)
Bitumen 60/70	12,700	13,726
Bitumen MC 30	515,052	631,174
Bitumen CRS -1	1,451,064	2,632,547
Bitumen CSS - 1	2,365,019	1,456,860
Any other type	34,425	55,821

Specification Details of Bitumen Sri Lanka

1. Bitumen 60/70 Specification under

Description

A penetration-grade paving bitumen widely used for asphalt concrete wearing and binder courses in Sri Lanka.

Typical Technical Requirements

Property	Typical Requirement	Test Method
Penetration at 25°C	60 – 70 dmm	ASTM D5
Softening Point	49 – 56°C	ASTM D36
Ductility at 25°C	Min 100 cm	ASTM D113
Flash Point	Min 232°C	ASTM D92
Solubility in Trichloroethylene	Min 99%	ASTM D2042
Specific Gravity	1.01 – 1.06	ASTM D70
Loss on Heating (TFOT)	Max 0.5%	ASTM D6/ASTM D1754

2. Cutback Bitumen MC-30 Specification under ASTM D2027

Description

Medium-curing cutback bitumen produced by blending penetration-grade bitumen with kerosene or petroleum solvent to reduce viscosity.

Typical Technical Requirements

Property	Typical Requirement	Test Method
Kinematic Viscosity at 60°C	30 – 60 cSt	ASTM D2170
Flash Point	Min 38°C	ASTM D3143
Distillate by Volume	As per ASTM limits	ASTM D402
Residue from Distillation	Min 50%	ASTM D402
Penetration of Residue	120 – 300 dmm	ASTM D5
Ductility of Residue	Min 100 cm	ASTM D113

3. CRS-1 Bitumen Emulsion Specification under ASTM D 2397-98 for CRS-1

Description

Cationic Rapid Setting emulsion mainly used for tack coats and surface treatment.

Typical Technical Requirements

Property	Typical Requirement	Test Method
Bitumen Content	55 – 65%	ASTM D244
Viscosity Saybolt Furol at 50°C	20 – 100 s	ASTM D7496
Residue by Evaporation	Min 57%	ASTM D244
Particle Charge	Positive	ASTM D244
Sieve Test	Max 0.1%	ASTM D6933
Storage Stability	Max 1%	ASTM D6930

4. CSS-1 Bitumen Emulsion Specification under ASTM D 2397-98 for CSS-1

Description

Cationic Slow Setting emulsion mainly used for prime coats, slurry seals, and cold mixes.

Typical Technical Requirements

Property	Typical Requirement	Test Method
Bitumen Content	55 – 60%	ASTM D244
Viscosity Saybolt Furol	20 – 100 s	ASTM D7496
Residue by Evaporation	Min 57%	ASTM D244
Particle Charge	Positive	ASTM D244
Sieve Test	Max 0.1%	ASTM D6933
Storage Stability	Max 1%	ASTM D6930

Common Sri Lankan Standards & References

Main Agencies

- Road Development Authority Sri Lanka
- RDA Research & Development Division

Common Standards Used

- ASTM D5 — Penetration
- ASTM D36 — Softening Point
- ASTM D113 — Ductility
- ASTM D244 — Emulsion Tests
- ASTM D402 — Cutback Distillation
- ASTM D2170 — Viscosity