

Schedule – D

(See Clause 2.1)

SPECIFICATIONS AND STANDARDS**1. Construction**

The Contractor shall comply with the Specifications and Standards set forth in Annex-I of this Schedule-D for construction of the Project Highway:

2. Design Standards

The Project Highway including Project Facilities shall conform to design requirements set out in the following documents:

“Manual of Standards and Specifications for Four Laning Manual published by the Indian Roads Congress – IRC: SP: 84-2014.”

3. Ministry of Road Transportation and Highways vide letter No. RW/NH-35072/05/2018-S&R(P&B) dated 24.08.2018 has decided to use VG – 40 in the construction of National Highways. Hence, following have been decided to be used in the construction of National Highways:-

(i) **DBM/BM layer** – Only VG-40 Grade of bitumen shall be used for the National Highways.

(ii) **Wearing coat (bituminous concrete)** – Modified bitumen (using polymer/crumbled rubber/natural rubber) or VG 40 grade of bitumen has to be used. In such cases, shearing mill is to be mandatorily used (in case of Bitumen modified with crumbled/natural rubber) so as to ensure proper mixing of the bitumen and the modifier. Other measures should also be taken so that proper mixing of the bitumen and the modifier is ensured at the time of using the modified bitumen for construction of wearing coat.

(iii) The source of procurement of bitumen/modified bitumen is always a concern from the point of view of homogeneity and quality. As such, the bitumen/modified bitumen shall be procured from the refineries only.

Annex – I

(Schedule-D)

Specifications and Standards for Construction**1 Specifications and Standards**

All Materials, works and construction operations shall conform to the Manual of Specifications and Standards for Four-Laning of Highways published by IRC (referred to as “Manual” in this Schedule) and MORTH Specifications for Road and Bridge Works. Where the specification for a work is not given, Good Industry Practice shall be adopted to the satisfaction of the Authority’s Engineer.

2 Deviations from the Specifications and Standards

2.1 The terms “Concessionaire”, “Independent Engineer” and “Concession Agreement” used in the Manual shall be deemed to be substituted by the terms “Contractor”, “Authority’s Engineer” and “Agreement” respectively.

2.2

Sr. No.	Clause referred in Manual	Item	Modified Provision
1	2.12.2.3	Entry and Exit Point	Provision of entry and exit ramps deleted. However, Service Road shall be connected by designing adequate weaving length.