भारत सरकार - GOVERNMENT OF INDIA
रेल मंत्रालय - MINISTRY OF RAILWAYS
(An ISO: 9001-2015 Certified Organization)

Indian Railways
Centre for Advanced Maintenance Technology

(केवल कार्यालयीन उपयोग हेतु /
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Requirements of Course Aggregate from Natural Sources as per IS 383-2016

CAMTECH/C/2022/CA/1.0 (MARCH – 2022)

Correction Slip – 01, June 2022

[**Page 2, S. No. 4 'Tests for Mechanical Properties'**] – Substitute the following for the existing entry:

SN	Material / Test	Method of Test, Ref to	Permissible Limits/ Variations
4	**Tests for Mechanical Properties** *(Cl. 5.4 of IS :383:2016)*		
A	Aggregate Crushing Value/ Ten Percent Fines Value OR	IS 2386 (Part 4)	≯ 30% for aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water having flow velocity more than 6 m/s, spillways and stilling basins).
			In case the aggregate crushing value exceeds 30% for aggregates to be used in concrete other than for wearing surfaces, then the test for 'ten percent fines' should be conducted and the maximum load for the ten percent fines should be 50KN.
	Aggregate Impact Value (As an alternative to Aggregate Crushing Value/ Ten Percent Fines Value)	IS 2386 (Part 4)	≯ 30% for aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water having flow velocity more than 6 m/s, spillways and stilling basins).
			≯ 45% for aggregates to be used in concrete other than for wearing surfaces.
	For concrete of grades M 65 and above, stronger aggregates are required and hence the maximum aggregate crushing value and aggregate impact value shall not exceed 22 percent.		
B	Aggregate Abrasion Value	IS 2386 (Part 4) using Los Angeles Machine	≯ 30% for aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water having flow velocity more than 6 m/s, spillways and stilling basins).
			≯50% for aggregates to be used in concrete other than for wearing surfaces

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