

NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry Shipping, Road Transport and Highways, Government of India)

Design, Engineering, Finance, Constriction, Operation and Maintenance of Delhi - Haryana Border to Rohtak Section of NH-10 From Km 29+650 to Km 93+140 are including construction of Bahadurgarh and Rohtak Bypasses in the State of Haryana Under NHDP Phase-III A

JBM

Client : National Highways Authority Of India
 Consultant : ICT India Pvt. Ltd.
 Concessionaire : West Haryana Highways Project Pvt. Ltd.
 EPC Contractor : Era Infra Engineering Ltd.

Marshall TEST (DBM/BC) (ASTM : D-1559)

Nos. of Blows Each Face = 75

Providing Ring Correction = 5.217

Date of Casting	Date of Testing	Spec. No.	HT of Specimen in(mm)	Asphalt Content %	Weight of Specimen			Volume (CC)	Bulk Density gm/cc	Average Bulk Density gm/cc	Max S.G. (gmm) (%)	VMA (%)	Air Voids (%)	VFA (%)	Flow (mm)	Average Flow (mm)	Dial Reading	Measured	Stability (kg)		Average Stability
					SSD in Air (gms)	in Air (gm)	in Water (gm)												Adjusted		
23.05/11	01.06/11		110°C	4.55	1208	1199	698	501	2.393	2.393	2.497	14.45	4.16	71.21	4.8		120		100		

EPC- Contractor

For concessionaire

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JRM

Consultant : National Highways Authority Of India
 Concessionaire : ICT India Pvt. Ltd.
 Contractor : West Haryana Highways Project Pvt. Ltd.
 : Era Infra Engineering Ltd.

Marshall TEST (DBM/BC) (ASTM : D-1559)

gsb - 2.670

Nos. of Blows Each Face = 75

Providing Ring Correction = 5.217

Date of Testing	Date of Testing	Spec. No.	HT of Specimen in (mm)	Asphalt Content %	Weight of Specimen			Volume (CC)	Bulk Density gm/cc	Average Bulk Density gm/cc	Max S.G. (gmm) (%)	VMA (%)	Air Voids (%)	VFA (%)	Flow (mm)	Average Flow (mm)	Dial Reading Measured	Stability (kg) Adjusted	Average Stability
					SSD in Air (gms)	in Air (gm)	in Water (gm)												
<i>11/06/11</i>	<i>01.06.11</i>		<i>110°C</i>	<i>4.55</i>	<i>1200</i>	<i>1199</i>	<i>692</i>	<i>508</i>	<i>2.360</i>	<i>2.497</i>	<i>15.63</i>	<i>5.49</i>	<i>64.88</i>	<i>1.8</i>		<i>260</i>		<i>1445</i>	
<i>11/06/11</i>	<i>01.06.11</i>		<i>125°C</i>	<i>4.55</i>	<i>1201</i>	<i>1210</i>	<i>693</i>	<i>517</i>	<i>2.323</i>	<i>2.360</i>	<i>16.95</i>	<i>5.49</i>	<i>67.61</i>	<i>1.9</i>		<i>245</i>		<i>1362</i>	

(2)
Contractor

Kishan Singh

For concessionaire

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98 cc

Marshall TEST (DBM/BC) (ASTM : D-1559)

gsb - 2.67

Nos. of Blows Each Face = 75

Providing Ring Correction = 5.247 5.559

Date of Casting	Date of Testing	Spec. No.	HT of Specimen in (mm)	Asphalt Content %	Weight of Specimen			Volume (CC)	Bulk Density gm/cc	Average Bulk Density gm/cc	Max S.G. (gmm) (%)	VMA (%)	Air Voids (%)	VFA (%)	Flow (mm)	Average Flow (mm)	Dial Reading	Measured	Stability (kg)	Average Stability
					SSD in Air (gms)	in Air (gm)	in Water (gm)												Adjusted	
23.05.11	24.05.11	A	64.5	4.55	1206	1202	698	508	2.366	2.366	2.497	15.42	5.25	65.95	3.0		270		1501	1501

EPC- Contractor

For concessionaire