



IKRAM PAVES SDN BHD

PAVEMENT LABORATORY



MS 150/IEC 17025

TESTING

SAMM No. 762

LABORATORY TEST REPORT COVER PAGE

Report No.:

E2322

Total Pages : *TWO (Excluding this page)*

Date Issued:

19/7/2022

Customer

DJX SOLUTIONS SDN BHD

Prepared For

-

Project Title

PLUS HIGHWAY



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IKRAM PAVES SDN BHD
PAVEMENT LABORATORY



MS ISO/IEC 17025
TESTING
SAMM No. 762

LABORATORY TEST REPORT

Report No.	E2322	Date Issued:	19-Jul-22
Total No. of Pages	2	Page No.	1 of 2
Name And Address of Customer (As Given By Customer)	DJX SOLUTIONS SDN BHD UNIT 5 - 3, DATARAN MUTIRA, JALAN 7/4 SERDANG JAYA, 43300 SRI KEMBANGAN SELANGOR DARUL EHSAN TEL : 019 9860958 EMAIL: -		
Title of Report (As Given By Customer)	PLUS HIGHWAY		
Request No.	E2322		
Sample Received Date	6/7/2022		
Received by	RACMAWATI BINTI OTHMAN		
Test Commencement Date	6-Jul-22		
Test Completion Date	19-Jul-22		
Tested by	RACMAWATI BINTI OTHMAN		
Particulars Of Sample (As Given by Customer)			
No.	Material (s)	Grade	Type
1	BITUMEN EMULSION	CG-BOND	LIQUID
		Qty.	3 Ltr
		Sample Marking	GC-1, GC-2, GC-3, GC-4, GC-5, GC-6, GC-7, GC-8, GC-9, GC-10 P-1, SP-1
		Pavement Laboratory	Sample ID
			E/S/1/C/1-1/23/22
Laboratory Testing(s)			
Test(s) Carried Out		Test Method(s)	
1 STANDARD TEST METHOD FOR WATER CONTENT*		1. -	
2 STANDARD TEST METHOD FOR SETTLEMENT & STORAGE STABILITY OF EMULSIFIED ASPHALT - OVEN TEST METHOD		2. ASTM: D6930 - 19	
3 STANDARD TEST METHOD FOR SAYBOLT FUROL VISCOSITY*		3. ASTM: D 244 CLAUSE 24-25	
4 STANDARD TEST METHOD FOR SIEVE TEST (RESIDUE ON 850um)*		4. ASTM: D 244 CLAUSE 40-43	
5 STANDARD TEST METHOD FOR PARTICLE CHARGE*		5. ASTM: D 244 CLAUSE 23-26.6	
6 STANDARD TEST METHOD FOR PENETRATION OF BITUMINOUS MATERIALS		6.ASTM:D5 / D5M-20 (2020)	
7 STANDARD TEST METHOD FOR SOFTENING POINT OF BITUMEN (RING AND BALL APPARATUS)		7. ASTM:D36/ D 36M - 14(2020)	
Remarks: 1. * NOT SAMM ACCREDITED SCOPE 2. The test results apply to the sample as received from customer			

IKRAM PAVES SDN BHD (Pavement Laboratory)
Approved Signatory


MOHD NASIR BIN REBU
Technical Manager

STATEMENTS OF CONFORMITY

"Statements of conformity (e.g. Pass/Fail/Indeterminate) to specifications are made in the laboratory test report by taking Measurement Uncertainty into account. Where statements of conformity are made in the laboratory test report, the following decision rules are applied:

PASS: Results ± expanded uncertainty within limits/specifications
FAIL: Results ± expanded uncertainty exceeds limits/specifications
INDETERMINATE: Results ± expanded uncertainty overlaps limits/specifications"

This laboratory test report covers test samples, which were received and tested by Pavement Laboratory of IKRAM PAVES SDN. BHD. ONLY and this report IS NOT an approval certificate. This laboratory test report, except in full, shall not be reproduced without prior written approval from the General Manager (Pavement Laboratory) of Ikram Paves Sdn. Bhd.

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IKRAM CENTRE OF EXCELLENCE (ICE)
for TOTAL INFRASTRUCTURE SOLUTIONS

LABORATORY TEST REPORT

Test Report No.	E2322	Request No.	E2322
Test Commencement Date:	6-Jul-22	Test Completion Date	19-Jul-22
Title of Report:	PLUS HIGHWAY		

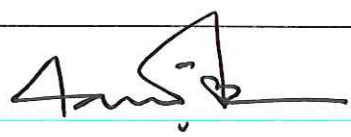
STANDARD TEST METHOD FOR WATER CONTENT*
STANDARD TEST METHOD FOR SETTLEMENT & STORAGE STABILITY OF EMULSIFIED ASPHALT - OVEN TEST METHOD
STANDARD TEST METHOD FOR SAYBOLT FUROL VISCOSITY*
STANDARD TEST METHOD FOR SIEVE TEST (RESIDUE ON 850um)*
STANDARD TEST METHOD FOR PARTICLE CHARGE*
STANDARD TEST METHOD FOR PENETRATION OF BITUMINOUS MATERIALS
STANDARD TEST METHOD FOR SOFTENING POINT OF BITUMEN (RING AND BALL APPARATUS)

Test No.	Material	Sample ID	Specimen Marking	Test	Test Method	Result	Specification own by manufacturer	
							Min.	Max.
1	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-1, GC-2, GC-3	Water Content, %	-	Avg: 25.0 %	-	40%
2	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-4, GC-5	Storage Stability 24h, %	ASTM: D-6930-19	0.07 %	-	-
3	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-6	Saybolt Furol Viscosity (s), 25°C	ASTM: D 244	29.68 s	15	50
4	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-7	Sieve Test, % (Residue on 850um)	ASTM: D-244	0.026 %	-	0.1
5	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-8	Particle Charge	ASTM: D244	Positive	Positive	
6	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	GC-9, GC-10	Settlement, 5 day, %	ASTM: D6930-19(2019)	0.08 %	-	-
7	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	P-1	Penetration, 25°C, 100g, 5s, dmm	ASTM: D5/D 5M-19a	43.6 dmm	40	90
8	Bitumen Emulsion CG-BOND	E/S/1/C/1-1/23/22	SP-1	Softening Point, 5°C	ASTM: D36	56.0 °C	54	-

Humidity/Temperature during testing (66 % / 28°C).

** The reported Measurement of Uncertainty is based on Standard Uncertainty of confidence level not less than 95% and subject to customer's request

* NOT SAMM ACCREDITED SCOPE

			
Name	: Shahabudin Mohd Saini	Nama	: Mohd Nasir bin Rebu
Designation	: Laboratory Engineer	Designation	: Laboratory Manager / Approved Signatory
Date:	: 19/7/22	Date	: 19/07/2022