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TEST REPORT

REPORT NO.: 2012CB5789

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Applicant : WINABUMI SDN BHD
Batu 7, Jalan Tuaran
89357 Inanam, Kota Kinabalu
Sabah

Manufacturer: : WINABUMI SDN BHD

Product : Prestressed Spun Concrete Pole

Reference Standard/
Method of test : JIS A 5309 : 1992,
Prestressed Spun Concrete Poles


Description of sample : Four (4) numbers of Prestressed Spun Concrete Poles were tested at
manufacturer's premise in Kota Kinabalu, Sabah.
Type : a) 7.5 m - 10 - 1.1 kN (1 no's)
b) 9.0 m - 14 - 2.0 kN (1 no's)
c) 10.0 m - 19 - 5.0 kN (1 no's)
d) 10.0 m - 19 - 8.4 kN (1 no's)

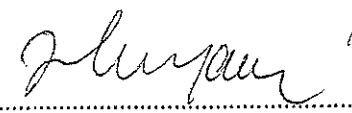
Date received : 20th September 2012

Job no./Ref. no. : J20121265789/SQAS/CCST/T.REC/CSL/07

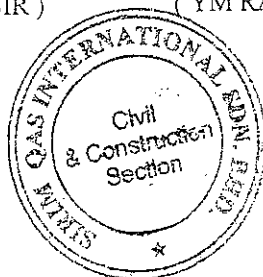
Issued date : 16 OCT 2012

Approved Signatories


(HANON NAZIR MOHD BASIR)
Senior Technical Executive


(YM RAJA NOR SIHA RAJA ABD. HANAN)

Head
Civil & Construction Section
Testing Services Department



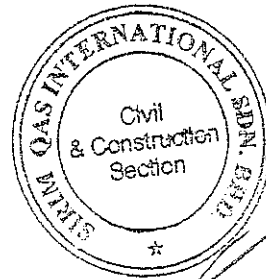
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TEST RESULTS :

Product : Prestressed Spun Concrete Pole
 Type : 7.5 m - 10 -1.1 kN
 Method of Test : JIS A 5309 : 1992, Prestressed Spun Concrete Poles
 Date of Testing : 08.10.2012
 Date of Production : 10.09.2012
 Pole No : 64661

Clauses	Specification /Requirements	Test Results	Remark
2.0	<u>Classification</u>	Class 1	Complied
3.0	<u>Quality</u>		
3.1	Appearance The pole shall be free from the defects, such as harmful flaws and cracks and have a smooth surface. (1) Design Load Test When the design load 112 kgf is applied, no cracks exceeding 0.25 mm in width shall be generated. When the design load is removed, no cracks exceeding 0.05 mm. (2) Breaking Load Test Breaking load of Class 1 poles shall be not less than 2 times the design load: 224 kgf.	Satisfactory	Complied
4.0	<u>Shapes, dimension & dimensional tolerance</u>	Cracks width 0.02 mm was observed at design load and no crack was observed after removal of the load.	Complied
4.1	Shapes	The pole withstood a load of 285 kgf.	Complied
		Hollow frustrum	Complied



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TEST RESULTS :

Product : Prestressed Spun Concrete Pole
 Type : 9.0 m - 14 - 2.0 kN
 Method of Test : JIS A 5309 : 1992, Prestressed Spun Concrete Poles
 Date of Testing : 08102.2012
 Date of Production : 10.09.2012
 Pole No : 90657

Clauses	Specification /Requirements	Test Results	Remark
2.0	<u>Classification</u>	Class 1	Complied
3.0	<u>Quality</u>		
3.1	Appearance		
	The pole shall be free from the defects, such as harmful flaws and cracks and have a smooth surface.	Satisfactory	Complied
	(1) Design Load Test		
	When the design load 200 kgf is applied, no cracks exceeding 0.25 mm in width shall be generated. When the design load is removed, no cracks exceeding 0.05 mm.	Cracks width 0.04 mm was observed at design load and no crack was observed after removal of the load.	Complied
	(2) Breaking Load Test		
	Breaking load of Class 1 poles shall be not less than 2 times the design load: 400 kgf.	The pole withstood a load of 540 kgf.	Complied
4.0	<u>Shapes, dimension & dimensional tolerance</u>		
4.1	Shapes	Hollow frustrum	Complied



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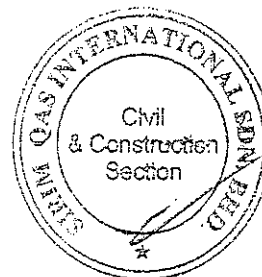
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TEST RESULTS :

Product : Prestressed Spun Concrete Pole
 Type : 10.0 m - 19 - 5.0 kN
 Method of Test : JIS A 5309 : 1992, Prestressed Spun Concrete Poles
 Date of Testing : 08.10.2012
 Date of Production : 10.09.2012
 Pole No : 9640

Clauses	Specification /Requirements	Test Results	Remark
2.0	<u>Classification</u>	Class 1	Complied
3.0	<u>Quality</u>		
3.1	<u>Appearance</u> The pole shall be free from the defects, such as harmful flaws and cracks and have a smooth surface.	Satisfactory	Complied
	(1) Design Load Test When the design load 500 kgf is applied, no cracks exceeding 0.25 mm in width shall be generated. When the design load is removed, no cracks exceeding 0.05 mm.	No crack was observed at design load and upon removal of the load.	Complied
	(2) Breaking Load Test Breaking load of Class 1 poles shall be not less than 2 times the design load: 1000 kgf.	The pole withstood a load of 1290 kgf.	Complied
4.0	<u>Shapes, dimension & dimensional tolerance</u>		
4.1	<u>Shapes</u>	Hollow frustrum	Complied



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TEST RESULTS :

Product : Prestressed Spun Concrete Pole
 Type : 10.0 m - 19 – 8.4 kN
 Method of Test : JIS A 5309 : 1992, Prestressed Spun Concrete Poles
 Date of Testing : 08.10.2012
 Date of Production : 10.09.2012
 Pole No : 125

Clauses	Specification /Requirements	Test Results	Remark
2.0	<u>Classification</u>	Class 1	Complied
3.0	<u>Quality</u>		
3.1	Appearance The pole shall be free from the defects, such as harmful flaws and cracks and have a smooth surface.	Satisfactory	Complied
	(1) Design Load Test When the design load 840 kgf is applied, no cracks exceeding 0.25 mm in width shall be generated. When the design load is removed, no cracks exceeding 0.05 mm.	Cracks width 0.01 mm was observed at design load and no crack was observed after removal of the load..	Complied
	(2) Breaking Load Test Breaking load of Class 1 poles shall be not less than 2 times the design load: 1680 kgf .	The pole withstood a load of 1760 kgf.	Complied
4.0	<u>Shapes, dimension & dimensional tolerance</u>		
4.1	Shapes	Hollow frustrum	Complied



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