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## MILL TEST CERTIFICATE / CERTIFICATE OF INSPECTION

Certificate No : 2011011722	SAMPLE	Date : MAY. 19, 2010
Purchaser : MORI ELECTRIC INTERNATIONAL PTE LTD		P.O. No : DSS 09533/04
Reel No/Coil No : 14		L/C No : 1CMLC517024
		Invoice No : FC1472P2

### 1. TYPE & GRADE

Construction : 6 x WS(36) + IWRC	Coating : DRAWN GALVANIZED
Diameter : 52 MM	Grade : EEIPS
Length : 1,200 MTRS	Lay : RHRL
Specification : API-9A	Lubrication : A-2

### 2. ROPE TEST RESULTS

Item	Nominal or Specified	Actual
Diameter (mm, inch)	52 MM	53.5 MM
Breaking Strength	2,023 KN	2,072 KN
Lay Length (mm, inch)	MAX. 377 MM	333 MM
Preforming	GOOD	GOOD

### 3. WIRE TEST RESULTS

Item	Nominal or Specified	Actual
Diameter (mm, inch)	2.92 MM	2.93 MM
Breaking force	12,926 N	13,110 N
Torsion	15	25
Weight of Coating	120 G/M2	127 G/M2

We hereby certify that the above results are true and correct in every detail.

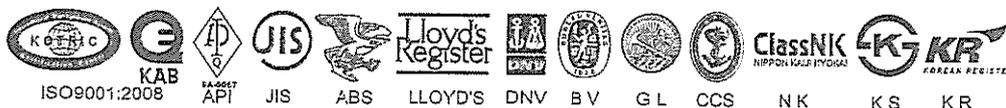
### CHEMICAL ANALYSIS OF WIRE ROD

Name of Materials Supplier : POSCO

Charge No.	Chemical Composition (%)				
	C	Si	Mn	P	S
SA 28850	0.78	0.20	0.71	0.018	0.004

Approval or Inspection Possibility \_\_\_\_\_

Quality Management Dept.



SAMPLE

Chief Inspector



# AMERICAN BUREAU OF SHIPPING

Customer Name DSR WIRE CORP.  
Attending Office Goseong  
First Visit Date 10-Mar-2010

Purchase Order No.  
Report Number GK1802230  
Last Visit Date 10-Mar-2010

Certification Of: GALVANIZED STEEL WIRE ROPE

Survey Location : Suncheon, Korea

Manufacturer DSR WIRE CORP.  
Purchaser Name SAFETY MARINE MANAGEMENT PTE LTD  
Stamping AB, Report No.

This is to Certify that the undersigned surveyor(s) to this Bureau did, at the request of the customer, carry out the following survey and report as follows:

Traceability of materials used on this project has been verified.

All testing (pressure/load/operational/etc.) has been carried out as applicable and verified in accordance with the applicable Rules/specifications.

Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.

For non-ABS Grades, tests and examinations as required by the specifications as listed in this report were carried out and found satisfactory.

Manufacturer test records and/or mill certificates were confirmed to comply with specification.

Final markings for identification confirmed.

Description: One(1) Reel of Galvanized Steel Wire Rope

Hull No : Stock

Specification : API 9A

Purchaser : Safety Marine Management PTE. Ltd.

P.O No.: DSS 09533/04

Mfg. No. : FC1472

Reel No. : 14

Total Weight : 13,680.00 Kgs

ABS Marking : AB GK1802230-L

Process of Manufacture : Extra Extra Improved Plow Steel

Construction : 6 x WS(36) + IWRC, Right Hand Regular Lay

Length of One Reel : 1,200 Mtrs x 1 R/L

Nominal Dia. of Wire : 2.92 mm

Nominal Dia. of Rope : 52 mm

Minimum Breaking Load : 2,023 KN

Actual Breaking Load : 2,072 KN

- Details of Tests

Preforming Test : Satisfactory

Tensile Strength Test : Satisfactory

Torsion Test : Satisfactory

Wrapping Test : Satisfactory

NOTE: This report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item or material, equipment, machinery or any other item covered by this Report has been examined for compliance with or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in the contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

Customer Name DSR WIRE CORP.  
Attending Office Goseong  
First Visit Date 10-Mar-2010

Purchase Order No. \*  
Report Number GK1802230  
Last Visit Date 10-Mar-2010

**SAMPLE**

Reverse Bending Test : Satisfactory  
Zink Coating Test : Satisfactory

Surveyor(s) to The American Bureau of Shipping  
Attending Surveyors

Hong Soon-Won

Electronically Signed on 10-Mar-2010 by Lee, Chang-Min

Lee Chang-Min

Electronically Signed on 10-Mar-2010

Reviewed By  
Cho, Hung-Rae

Electronically Signed on 11-Mar-2010, Goseong Port

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