

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
56656-2009-AQ-KOR-RvA

Initial certification date:
16 March, 2016

Valid:
16 March, 2016 - 15 September, 2018

This is to certify that the management system of

Hyundai Heavy Industries Co., Ltd.

1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
ISO 9001:2008, KS Q ISO 9001:2009

This certificate is valid for the following scope:

Shipbuilding Division

Design and Manufacture of Ships including Barges, Commercial Vessels, Drilling Rigs (Drillship, Semi- Rig), FPSO, FPU, Offshore Support Vessels, LNG /LPG Carrier, Special Naval Ships(Surface Ship & Submarine), etc.

Offshore & Engineering Division

Design and Manufacture of Offshore Oil & Gas Production Facilities [Fixed Platforms(Jacket, Module, Topside), Floaters(FPSO, FSO, FPU, TLP), Submarine Pipeline System. Subsea System(Tree, Manifold, Control Systems)], Onshore Oil & Gas Treatment Facilities, Ships and LPG Carrier including Associated Services for Installation, Hook-up, Commissioning and Start-up. Design, Manufacture and Installation of Complex Steel Building Structure and Major Steel Bridge.

Place and date:
Seoul 21 March, 2016



The RvA is a signatory to the IAF MLA

For the issuing office:
DNV GL – Business Assurance
18F, Kyobo Bldg., 1, Jong-ro, Jongno-gu,
Seoul, Korea

In-Kyoon Ahn
Management Representative

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Industrial Plant & Engineering Division

Design, Manufacture and Installation of Power and Heating Boiler, Pressure Containing Equipment, Heat Transfer Equipment, Desalination Plant, Nuclear Fusion Equipment, Steel Tower & Tubular Pole, Water Treatment Facilities, Steel Structures, Environmental Plant such as Incineration Plant, Desulfurization Plant and De-nitrogen Plant, Engineering & Design, Procurement, Construction Management Service and Site Construction Activities for Industrial Plant such as Power Plant with Substation, Oil Gas Processing Plants, Refinery Plants and Tank Farm, Civil Works, Building. Design and Manufacture of Offshore & Onshore Jacket, Module and Topsides Facilities, Submarine Pipeline System, Floating & Mobile Offshore Units including Associated Services of Installation, Hook-up, Commissioning, Start-up and Maintenance

Engine & Machine Division

Design and Manufacture of Two & Four-Stroke Marine and Stationary Diesel & Gas Engine and Engine Power Plant with Components (Turbochargers, Blocks, Crankshafts, Cylinder Liners, Propellers, Forged Steel and Shafting etc.), Marine and Industrial Equipment, Ballast Water Treatment System, SCR(Selective Catalytic Reduction) System, Hydraulic Machinery (Pumps, Valves, Thrusters, Gas & Air Compressors, Steam & Gas Turbines etc.), Industrial Machinery (Conveyors, Presses etc.)

Robotics Division

Industrial Robots for Automobile and Electronics

Electro Electric Systems Division

The registration covers the design, manufacture, testing, installation and servicing of :

**Transformers,
Power and Distribution Transformers ; Dry Type Transformers ; Special Purpose Transformers ; Reactors**

**Rotating Machinery
High and Low Voltage Induction Motors and Generators ; Synchronous Motors and Generators ; Diesel Engine Generator Sets ; Low Voltage Energy Saving Induction Motors ; Low Voltage Single Phase Induction Motors ; and Elevator Motors ; Traction Motors and Generators for**

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Electrical Car and Locomotive ; Explosion Proof Motors and Generators(Type of Frameproof Ex d, Pressurized Ex p, Increased Safety Ex e & Non-sparking EX nA)

Switchgear

Metal Clad and Metal Enclosed Switchgears ; Motor Control Centers ; Bus Ducts/Bus Ways ; Marine Switchboards and Starters ; Distribution Boards ; Cubicle type Gas Insulated Switchgear(CGIS)

Navigation & Automation System

Marine Control Consoles and Monitors ; Voyage Data Recorder(VDR), Protection Relay Boards; Bridge Navigation Watch Alarm System(BNWAS)

Low Voltage Circuit Breakers

Molded Case Circuit Breakers ; Magnetic Contactors, Relays, and Switches ; Air Circuit Breakers ; Vacuum Circuit Breakers ; Vacuum Interrupters and Contactors ; Thermal Overload Relay; ELCB(Earth Leakage Circuit Breaker); and EMPR(Electrical Motor Protection Relay).

High Voltage Circuit Breakers

SF6 Gas Insulated Switchgear, Type GIS, GCB, and HIS, Components of the Switchgear include for GIS ; Circuit Breakers, Disconnecting Switches, Earthing Switches, Lighting Arrestors, Voltage Transformer, Current Transformer, and Bushing, for GCB; Circuit Breakers, Current Transformer, and Bushing, for HIS; Circuit Breakers, Current Transformer, Disconnecting Switches, Earthing Switches, and Bushing.

Power Electronics

Inverters for Industrial Motor ; Electrical Equipment for Rolling Stock ; Instrumentation and Control Systems(PLC, SCADA, DCS and HVAC) ; Monitoring Systems

Wind Turbines

Wind Turbines

Construction Equipment Division

Design, Manufacture and Associated Services of Wheel Loader, Excavator, Fork Lift, Skid Steer Loader, Backhoe Loader, Mini Excavator, Hydraulic Truck

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Crane, Dozer and Hydraulic Cylinder

Green Energy Division

**Design, Manufacture, Testing, Installation and Servicing of Photovoltaic Cell,
Module, Inverter and Systems**

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Appendix to Certificate

Hyundai Heavy Industries Co., Ltd.

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Hyundai Heavy Industries Co., Ltd. Shipbuilding Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design and Manufacture of Ships including Barges, Commercial Vessels, Drilling Rigs (Drillship, Semi-Rig), FPSO, FPU, Offshore Support Vessels, LNG / LPG Carrier, Special Naval Ships(Surface Ship & Submarine), etc
Hyundai Heavy Industries Co., Ltd. Shipbuilding Division Gunsan Yard	625, Seohae-ro, Bieungdo-dong, Gunsan-si, Jeollabuk-do, Korea	
Hyundai Heavy Industries Co., Ltd. Shipbuilding Division Naengcheon Yard	195-17,Naengcheon Jaenegongdan-gil, Oedong-eup, Gyeongju-si, Gyeongsangbuk-do, Korea	
Hyundai Heavy Industries Co., Ltd. Shipbuilding Division Yongyeon Yard	800, Cheo-Yong-lo, Nam-gu, Ulsan, Korea	
Hyundai Heavy Industries Co., Ltd. Shipbuilding Division Seoul Design Office	Hyundai Bldg. 75, Yulgok-ro, Jongro-gu, Seoul, Korea	
Hyundai Heavy Industries Co., Ltd. Offshore & Engineering Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design and Manufacture of Offshore Oil & Gas Production Facilities[Fixed Platforms(Jacket, Module, Topside), Floaters(FPSO, FSO, FPU, TLP), Submarine Pipeline System. Subsea System(Tree, Manifold, Control Systems)], Onshore Oil & Gas Treatment Facilities, Ships and LPG Carrier including Associated Services for Installation, Hook-up, Commissioning and Start-up. Design, Manufacture and Installation of Complex Steel Building Structure and Major Steel Bridge.
Hyundai Heavy Industries Co., Ltd. Offshore & Engineering Division 2 Shop	400, Bangeojinsunhwando-ro, Do ng-gu, Ulsan, Korea	
Hyundai Heavy Industries Co., Ltd. Offshore & Engineering Division Pipe Fabrication Shop	50, Yeongji-ro, Oedong-eup, Gye ongju-si, Gyeongsangbuk-do, Korea	
Hyundai Heavy Industries Co., Ltd. Offshore & Engineering Division Pipe Painting Shop	293-15, Naeoe-ro, Oedong-eup, Gyeongju-si, Gyeongsangbuk-do, Korea	
Hyundai Heavy Industries Co., Ltd. Offshore & Engineering Division Offshore Engineering Center	15th, 16th, 17th FL., Hansol Building, DMC Iaan Sangam 2nd Block, 361, World Cup buk-ro, Mapo-gu, Seoul, Korea	
Hyundai Heavy Industries Co., Ltd. Industrial Plant & Engineering Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design, Manufacture and Installation of Power and Heating Boiler, Pressure Containing Equipment, Heat Transfer Equipment, Desalination Plant, Nuclear Fusion Equipment, Steel Tower & Tubular Pole, Water Treatment Facilities, Steel Structures, Environmental Plant such as Incineration Plant, Desulfurization Plant and De-nitrogen Plant, Engineering & Design, Procurement, Construction Management Service and Site Construction Activities for Industrial Plant such as Power Plant with Substation, Oil Gas Processing Plants, Refinery Plants and Tank Farm, Civil Works, Building. Design and Manufacture of Offshore & Onshore Jacket, Module and Topside Facilities, Submarine Pipeline System, Floating & Mobile Offshore Units
Hyundai Heavy Industries Co., Ltd. Industrial Plant & Engineering Division Seoul Office	Digital Cube Bldg. 34, Sangamsan-ro, Mapo-gu, Seoul , Korea	

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2994 LB, BARENDRECHT, NETHERLANDS. TEL: +31102922689. assurance.dnvgl.com

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		including Associated Services of Installation, Hook-up, Commissioning, Start-up and Maintenance
Hyundai Heavy Industries Co., Ltd. Engine & Machine Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design and Manufacture of Two & Four-Stroke Marine and Stationary Diesel & Gas Engine and Engine Power Plant with Components (Turbochargers, Blocks, Crankshafts, Cylinder Liners, Propellers, Forged Steel and Shafting etc.), Marine and Industrial Equipment, Ballast Water Treatment System, SCR(Selective Catalytic Reduction) System, Hydraulic Machinery (Pumps, Valves, Thrusters, Gas & Air Compressors, Steam & Gas Turbines etc.), Industrial Machinery (Conveyors, Presses etc.)
Hyundai Heavy Industries Co., Ltd. Robotics Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Industrial Robots for Automobile and Electronics
Hyundai Heavy Industries Co., Ltd. Electro Electric Systems Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	The registration covers the design, manufacture, testing, installation and servicing of : Transformers, Power and Distribution Transformers ; Dry Type Transformers ; Special Purpose Transformers ; Reactors Rotating Machinery High and Low Voltage Induction Motors and Generators ; Synchronous Motors and Generators ; Diesel Engine Generator Sets ; Low Voltage Energy Saving Induction Motors ; Low Voltage Single Phase Induction Motors ; and Elevator Motors ; Traction Motors and Generators for Electrical Car and Locomotive ; Explosion Proof Motors and Generators(Type of Frameproof Ex d, Pressurized Ex p, Increased Safety Ex e & Non-sparking EX nA)
Hyundai Heavy Industries Co., Ltd. Electro Electric Systems Division Seonam Factory	223, Sapyeong-ro, Nam-gu, Ulsan, Korea	Switchgear Metal Clad and Metal Enclosed Switchgears ; Motor Control Centers ; Bus Ducts/Bus Ways ; Marine Switchboards and Starters ; Distribution Boards ; Gas Insulated Switchgear(CGIS)
Hyundai Heavy Industries Co., Ltd. Electro Electric Systems Division Gunsan Rotating Machinery Factory and Wind Turbine Factory	232, Dongjangan-ro, Gunsan-si, Jeollabuk-do, Korea	Navigation & Automation System Marine Control Consoles and Monitors ; Voyage Data Recorder(VDR), Protection Relay Boards; Bridge Navigation Watch Alarm System(BNWS) Low Voltage Circuit Breakers Molded Case Circuit Breakers; Magnetic Contactors, Relays, and

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		<p>Switches; Air Circuit Breakers; Vacuum Circuit Breakers; Vacuum Interrupters and Contactors; Thermal Overload Relay; ELCB (Earth Leakage Circuit Breaker); and EMPR (Electrical Motor Protection Relay).</p> <p>High Voltage Circuit Breakers SF6 Gas Insulated Switchgear, Type GIS, GCB, and HIS, Components of the Switchgear include for GIS ; Circuit Breakers, Disconnecting Switches, Earthing Switches, Lighting Arrestors, Voltage Transformer, Current Transformer, and Bushing, for GCB; Circuit Breakers, Current Transformer, and Bushing, for HIS; Circuit Breakers, Current Transformer, Disconnecting Switches, Earthing Switches, and Bushing.</p> <p>Power Electronics Inverters for Industrial Motor ; Electrical Equipment for Rolling Stock ; Instrumentation and Control Systems(PLC, SCADA, DCS and HVAC) ; Monitoring Systems</p> <p>Wind Turbines Wind Turbines</p>
Hyundai Heavy Industries Co., Ltd. Construction Equipment Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design, Manufacture and Associated Services of Wheel Loader, Excavator, Fork Lift, Skid Steer Loader, Backhoe Loader, Mini Excavator, Hydraulic Truck Crane, Dozer and Hydraulic Cylinder.
Hyundai Heavy Industries Co., Ltd. Green Energy Division HQ	1000, Bangeojinsunhwando-ro, Dong-gu, Ulsan, Korea	Design, Manufacture, Testing, Installation and Servicing of Photovoltaic Cell, Module, Inverter and Systems.
Hyundai Heavy Industries Co., Ltd. Green Energy Division Solar Factory	313, Soi-ro, Soi-myeon, Eumseong-gun, Chungcheongbuk-do, Korea	