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# CERTIFICATE

Awarded to

## PETROVIETNAM TECHNICAL SERVICES CORPORATION

Head Office : Floor 05, PetroVietnam Tower, 01-05 Le Duan Street, Ben  
Address: Nghe Ward, District 1, Ho Chi Minh City, SR Viet Nam

Bureau Veritas Vietnam certify that, the Welding Quality Management System of above organization with its subsidiaries has been assessed and found to be in accordance with the requirements of the standard detailed below

STANDARD

### EN ISO 3834-2:2021

QUALITY REQUIREMENTS FOR FUSION WELDING OF  
METALLIC MATERIALS

### COMPREHENSIVE QUALITY REQUIREMENTS

Certificate N°: INY-CER/23/196 Rev.0

Initial approval date: 20<sup>th</sup> April 2023

Certification cycle start date: 20<sup>th</sup> April 2023

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 20<sup>th</sup> April 2026

On conditions to satisfy continuously to quality requirements and submitted to annual re-evaluation by BV Auditors qualified for this.

Certificate issued on: 21<sup>st</sup> April 2023

*The Annexes to the certificate on 7 (seven) pages is relating to the integral subsidiaries of this certificate.*

*Issued by Bureau Veritas Vietnam*

*To check this certificate validity please call (+ 84.28. 38 122 196)*



MANAGING OFFICE: Bureau Veritas Vietnam, Unit 4.4A, 4th Floor, E-Town Building  
364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam



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## ANNEX 1 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 1 : **PTSC MECHANICAL AND CONSTRUCTION LIMITED COMPANY (PTSC M&C)**  
Address : No 31, Road 30/4, Ward 9, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam  
Fabrication Yard : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

### Welding and Allied processes

Parent material groups According to ISO/TR 15608	Welding processes According to ISO 4063
Group 1/Sup-Group 1.1	121, 135, 136

AWS D1.1/D1.1M; D1.6/D1.6M - Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
Group I, II, III; A	SMAW, FCAW, GTAW, GMAW, SAW

ASME IX – Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
P-No. 1, 5A, 8, 10H, 34, 43, 51	GTAW, SMAW, FCAW

DNV-OS-C401 – Alternative standard with reference to EN ISO 3834-5	
Parent material groups According to DNV-OS-B101	Welding processes According to DNV-OS-C401
Strength Group: NS, HS & EHS up to SMYS 460 MPa	SMAW, SAW, FCAW

### Responsible Welding Coordination Personnel

NAME	QUALIFICATION	LEVEL
NGUYEN HUY TUAN	International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-06	C
PHAM DAC TIEN	TWI- Senior Welding Inspector CSWIP 3.2.2. Certificate No.: 512232	S
TRAN NGOC VINH	TWI- Senior Welding Inspector CSWIP 3.2.2- Certificate No.: 512233	S

Competency level in order complied with ISO 14731:2019

Certificate issued on: **21<sup>st</sup> April 2023**  
Issued by Bureau Veritas Vietnam.

Signed by:



**PHAM THI HONG HIEP**

Technical Manager

MANAGING OFFICE: Bureau Veritas Vietnam, Unit 4.4A, 4th Floor, E-Town Building  
364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam



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## ANNEX 2 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 2 : **PETRO VIETNAM MARINE SHIPYARD JOINT STOCK COMPANY (PV SHIPYARD)**  
Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

Fabrication Yard : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

### Welding and Allied processes

AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
Group I, II, ABS Grade: DH36, EH36, EQ47, EQ63, EQ51	FCAW
Group I, II	SMAW
Group I, II	SAW

ASME IX – Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
P-No. 1	SMAW
P-No. 1, 8	GTAW

### Responsible Welding Coordination Personnel

NAME	QUALIFICATION	LEVEL
DINH VAN DOANH	- International Welding Engineer (IWE) Certificate No. IWE/VN-HN/1170/111/301-04 - Certified Welding Inspector (CWI) Certificate No.: 15122481	C

*Competency level in order complied with ISO 14731:2019*

Certificate issued on: **21<sup>st</sup> April 2023**

*Issued by Bureau Veritas Vietnam.*

*Signed by:*



**PHAM THI HONG HIEP**

Industry Manager

MANAGING OFFICE: Bureau Veritas Vietnam, Unit 4.4A, 4th Floor, E-Town Building  
364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam

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### ANNEX 3 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 3 : **PTSC PRODUCTION SERVICES JOINT STOCK COMPANY (PTSC PPS)**

Address : Floor 16, Petro Hotel, No 09-11 Hoang Dieu Street, Ward 1, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

Workshop Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

#### Welding and Allied processes

<b>Parent material groups</b> According to ISO/TR 15608	<b>Welding processes</b> According to ISO 4063
Group 1/Sup-group 1.1, 1.2	136

#### AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5

<b>Parent material groups</b>	<b>Welding processes</b>
Group I, II	SMAW

#### ASME IX – Alternative standard with reference to EN ISO 3834-5

<b>Parent materials groups</b>	<b>Welding processes</b>
P-No. 1, 8, 10H, 34H	GTAW
P-No. 1, 8	SMAW

#### Responsible Welding Coordination Personnel

<b>NAME</b>	<b>QUALIFICATION</b>	<b>LEVEL</b>
PHAM QUANG VINH	<ul style="list-style-type: none"> <li>- International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-02</li> <li>- TWI - Welding Inspector CSWIP 3.1 Certificate No.:102311</li> </ul>	C
PHAN THO DUNG	<ul style="list-style-type: none"> <li>- TWI - Welding Inspector CSWIP 3.1 Certificate No.:80523</li> <li>- Sufficient technical knowledge and experience related to welding according to ISO 14731:2019</li> </ul>	S

Competency level in order complied with ISO 14731:2019

Certificate issued on: **21<sup>st</sup> April 2023**

Issued by Bureau Veritas Vietnam.

Signed by:



**PHAM THI HONG HIEP**  
Industry Manager

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#### ANNEX 4 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 4 : **PTSC OFFSHORE SERVICES JOINT STOCK COMPANY (PTSC POS)**  
Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

Workshop Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

#### Welding and Allied processes

<b>AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5</b>	
<b>Parent material groups</b>	<b>Welding processes</b>
Group I, II, III, A	SMAW, FCAW, GMAW, SAW

  

<b>ASME IX – Alternative standard with reference to EN ISO 3834-5</b>	
<b>Parent material groups</b>	<b>Welding processes</b>
P-No.1, 4, 5A, 8, 10H, 34, 43, 51	GTAW, SMAW, FCAW

  

<b>DNV-OS-F101/API 1104 – Alternative standard with reference to EN ISO 3834-5</b>	
<b>Parent material groups</b>	<b>Welding processes</b>
API 5L X65 PSL2 – Clad 625, ASTM A694 (F60, F65)	GTAW, SMAW

#### Responsible Welding Coordination Personnel

<b>NAME</b>	<b>QUALIFICATION</b>	<b>LEVEL</b>
DANG QUOC KHANH SON	- International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-03 - TWI-Senior Welding Inspector CSWIP 3.2.2 Certificate No.: 496682	C
PHAM QUANG VINH	- International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-02 - TWI - Welding Inspector CSWIP 3.1 Certificate No.: 102311	C

*Competency level in order complied with ISO 14731:2019*

Certificate issued on: **21<sup>st</sup> April 2023**

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*Signed by:*



**PHAM THI HONG HIEP**  
Industry Manager



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## ANNEX 5 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 5 : **BRANCH OF PETRO VIETNAM TECHNICAL SERVICES CORPORATION (PTSC SUPPLY BASE)**  
 Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

Fabrication Yard : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

### Welding and Allied processes

AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
S355G10+M	GTAW, FCAW

DNV-OS-C401 – Alternative standard with reference to EN ISO 3834-5	
Parent materials groups According to DNV-OS-B101	Welding processes According to DNV-OS-C401
Strength Group: NS, HS & EHS up to SMYS 460 MPa	SMAW, FCAW

### Responsible Welding Coordination Personnel

NAME	QUALIFICATION	LEVEL
NGUYEN HUY TUAN	- International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-06	C
TRAN CONG SON	- International Welding Inspector IWI Level B (Certificate No: VN-SL-Hanoi- 1178-101208-024-IIW); - Sufficient technical knowledge and experience related to welding according to ISO 14731:2019	S
PHAM VAN NAM	- Certified Welding Inspector (CWI) Certificate No.: 22082691; - Sufficient technical knowledge and experience related to welding according to ISO 14731:2019	S

*Competency level in order complied with ISO 14731:2019*

Certificate issued on: **21<sup>st</sup> April 2023**  
 Issued by Bureau Veritas Vietnam.

Signed by:



**PHAM THI HONG HIEP**  
Industry Manager

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 364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam



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## ANNEX 6 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 6 : **PTSC THANH HOA TECHNICAL SERVICES COMPANY (PTSC THANH HOA)**  
Address : Nghi Son Commune, Nghi Son Town, Thanh Hoa Province, SR  
Viet Nam  
Fabrication Yard : Nghi Son Commune, Nghi Son Town, Thanh Hoa Province, SR  
Viet Nam

### Welding and Allied processes

AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
Group I, II	FCAW, SMAW, SAW

ASME IX – Alternative standard with reference to EN ISO 3834-5	
Parent material groups	Welding processes
P-No. 1, 8	GTAW, SMAW, FCAW
P-No. 4Gr.1, 45	GTAW, SMAW
P-No.42, 5A	GTAW

### Responsible Welding Coordination Personnel

NAME	QUALIFICATION	LEVEL
NGUYEN VAN SANG	International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-01	C
TONG MINH CUONG	TWI - Welding Inspector CSWIP 3.1 Certificate No.: 495424	S

Competency level in order complied with ISO 14731:2019

Certificate issued on: **21<sup>st</sup> April 2023**

Issued by Bureau Veritas Vietnam.

Signed by:



**PHAM THI HONG HIEP**  
Industry Manager



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## ANNEX 7 TO CERTIFICATE N°INY-CER/23/196 Rev.0

Subsidiaries 7 : **SAO MAI - BEN DINH PETROLEUM INVESTMENT JOINT STOCK COMPANY (PVS)**  
Address : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

Fabrication Yard : No 65A, Road 30/4, Thang Nhat Ward, Vung Tau city, Ba Ria - Vung Tau province, SR Viet Nam

### Welding and Allied processes

<b>AWS D1.1/D1.1M - Alternative standard with reference to EN ISO 3834-5</b>	
<b>Parent material groups</b>	<b>Welding processes</b>
Group I, II	SMAW, FCAW
S355G7+M, S275, S235	SMAW, FCAW

<b>ASME IX – Alternative standard with reference to EN ISO 3834-5</b>	
<b>Parent material groups</b>	<b>Welding processes</b>
P-No.1	GTAW, SMAW

### Responsible Welding Coordination Personnel

<b>NAME</b>	<b>QUALIFICATION</b>	<b>LEVEL</b>
DINH VAN DOANH	- International Welding Engineer (IWE) Certificate No.: IWE/VN-HN/1170/111/301-04 - Certified Welding Inspector (CWI) Certificate No.: 15122481	C
HUYNH THANH PHUOC	- TWI - Welding Inspector CSWIP 3.1 Certificate No.: 395871	S
NGUYEN VAN LOC	- Sufficient technical knowledge and experience related to welding according to ISO 14731:2019	B
PHAM VAN NAM	- Certified Welding Inspector (CWI) Certificate No.: 22082691; - Sufficient technical knowledge and experience related to welding according to ISO 14731:2019	S

*Competency level in order complied with ISO 14731:2019*

Certificate issued on: **21<sup>st</sup> April 2023**

*Issued by Bureau Veritas Vietnam.*

*Signed by:*

  
**PHAM THI HONG HIEP**  
Industry Manager