



HIGHER TECH
ENGINEERING SDN BHD

Together towards successful

COMPANY PROFILE



2026

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COZEEZ

OUR COMPANY



Higher Tech Engineering Sdn Bhd (HTESB) was formed in 2024 by the director, Muhammad Naufal Husaini. This company is operating under Higher Tech Fabrication Sdn Bhd, HTESB offers several of services in all business sectors including onshore/offshore of steel fabrication, installation of structural, mechanical works, turnaround plant project and heavy lifting works. We ensure that your journey with us will be filled with endless possibilities.

HTESB has highly skilled and qualified staff in our employ. We are able to focus a wide range of expertise onto producing a quality standard for steel fabricating, which has the hallmark of accuracy and uncompromising attention to detail. Our commitment is to deliver the best product in the services we offer. Together with a strong and committed team which is the key driver of the success of Higher Tech Engineering



MISSION

Our mission is to be the preferred provider or family first, incident free and reliable service in all industry with quality solutions and delivered the best services that meet client requirements.

VISION

In our quest for continued success and growth, Higher Tech Engineering's vision is to be recognized as the Contractor and Employee choice. Our goal is to deliver every project to the highest standard through excellent communication and professionalism.



GAS & PIPING/
PIPE LINE



STEEL REPAIR
& MAINTAINANCE



STEEL STRUCTURE
& INSTALLATION



BLASTING
& PAINTING



SHIP AND RIG REPAIR
& MAINTAINANCE



SEA FASTENING
SERVICE

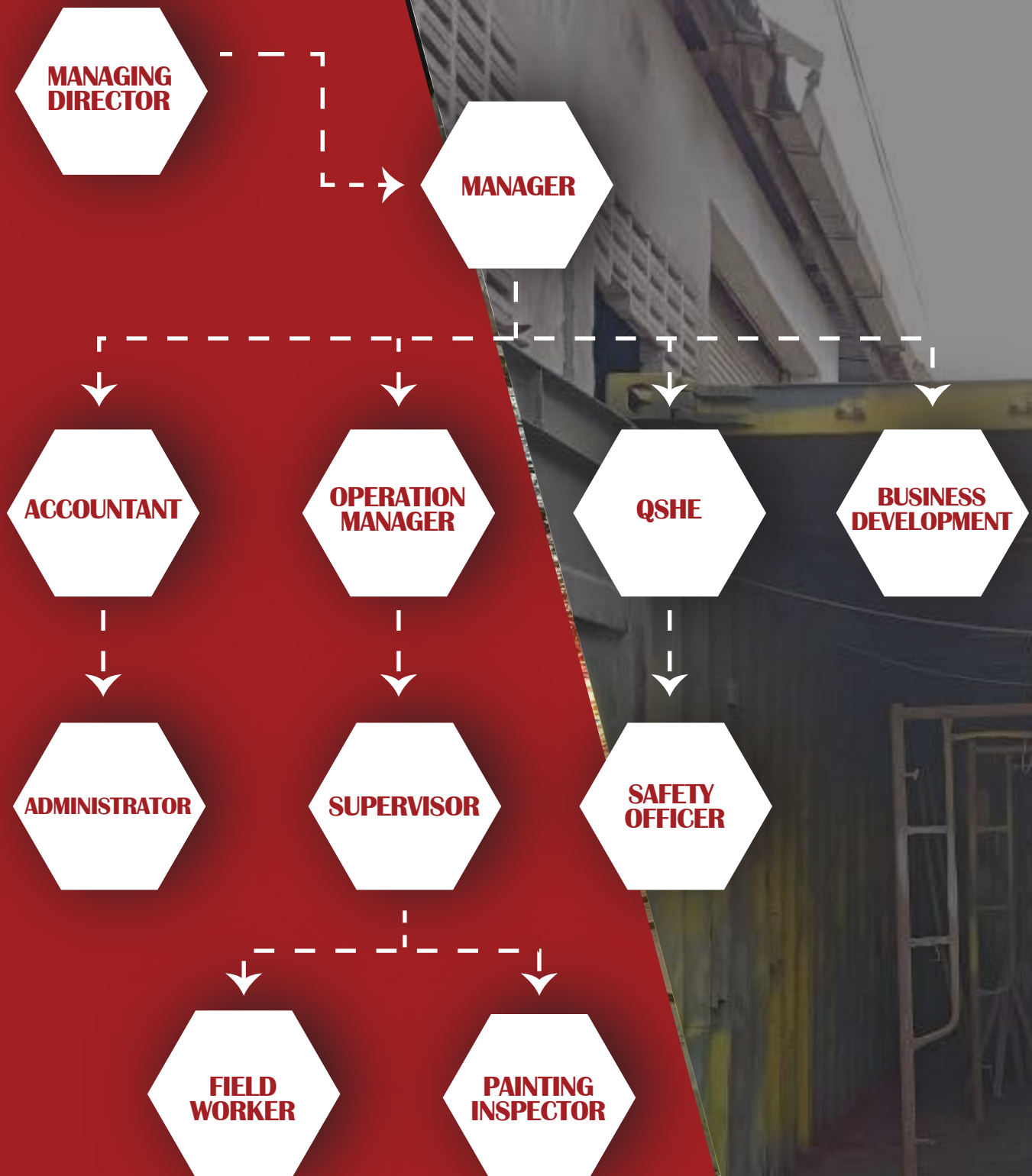


TANK AND BUNDLE
CLEANING SERVICE



BARGE HAND
DRILLING WORKS

ORGANIZATION CHART



SURUHANJAYA SYARIKAT MALAYSIA (SSM)



COMPANIES ACT 2016
(ACT 777)

CERTIFICATE OF INCORPORATION OF PRIVATE COMPANY

This is to certify that

HIGHER TECH ENGINEERING SDN. BHD.
202401018807 (1564656-D)

is, on and from the 13th day of May 2024, incorporated under the Companies Act 2016, and that the company is a company limited by shares and that the company is a private company.

Dated at **KUALA LUMPUR** this 13th day of May 2024.

A handwritten signature in black ink, appearing to read 'Nor Azimah', is positioned above the name of the Registrar.

DATUK NOR AZIMAH ABDUL AZIZ
REGISTRAR



User Id: MFZManagement

Printing Date: 13/05/2024

This certificate is generated from MYDATA SSM Services as at 13/05/2024 12:21:32.
MENARA SSM@SENTRAL, NO.7, JALAN STesen SENTRAL 5, KUALA LUMPUR SENTRAL, 50623 KUALA LUMPUR.
TEL : 03-7721 4000 FAX : 03-7721 4001

LEMBAGA PEMBAGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB)



PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran : 0120251023-SL162617
Nama Kontraktor : HIGHER TECH ENGINEERING SDN. BHD.
Alamat Berdaftar : NO. 12A-3B, JALAN TEMENGGUNG 1/9, BANDAR MAHKOTA CHERAS,
43200 CHERAS
SELANGOR
Daerah : HULU LANGAT
Tarikh Mula Berdaftar : 23/10/2025

<u>GRED</u>	<u>KATEGORI</u>	<u>PENGKHUSUSAN</u>
G3	B	B04
G3	CE	CE21
G3	ME	M15

Tarikh Mula Berkuatkuasa : 23/10/2025
Tarikh Habis Tempoh Perakuan : 22/10/2027

STATUS: BARU

A handwritten signature in black ink, appearing to be "J. M. S.", written over a horizontal line.

Ketua Eksekutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 23/10/2025



WELDING PROCEDURE SPECIFICATION (WPS)



HIGHER TECH FABRICATOR SDN BHD

No 483, 1st Floor, Wisma MCA, Jalan Baharu,
71000 Port Dickson, Negeri Sembilan Darul Khusus.

Direct Line Hp: 016-3410836

Email: admin@highertechfabricator.com
mnasir@highertechfabricator.com

HIGHER TECH ENGINEERING SDN BHD
No 145, Jalan Springhill 9/3,
Taman Meranti, Bandar Springhill,
71010 Port Dickson, Negeri Sembilan, Malaysia.

Date : 13.05.2024
Ref No: HTESB/05/2024/001

Attention To : Whom It May Concern,

Dear Sir,

Subject: Letter Of Authorization To Use The Welding Procedure Specification (WPS) & Welding
Procedure Specification (WPS D1.1)

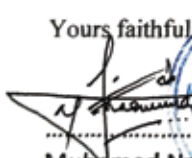
Refer to the subject above,

We **Higher Tech Fabricator Sdn Bhd** which owner of the Welding Procedure Specification (WPS)
No: HTFSB-WPS-001 with supporting document No: HTFSB-PQR-001 & Welding Procedure Specification
(WPS D1.1), give a permission to the company named **Higher Tech Engineering Sdn Bhd** to use the Welding
Procedure Specification (WPS) for 1 year starting from **June 2024** to **May 2025**.

Higher Tech Fabricator Sdn Bhd give full faith in **Higher Tech Engineering Sdn Bhd** using with the best
and focusing on the quality of work that satisfies their parties.

Any confirmation needed for the subject mentioned above, please call directly for further information.

Yours faithfully,


Muhamad Nasir Bin Azenam
Managing Director





HIGHER TECH FABRICATOR SDN BHD WELDING PROCEDURE SPECIFICATION (WPS)

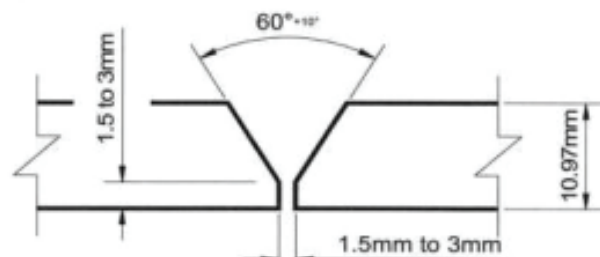
Company Name: HIGHER TECH FABRICATOR SDN BHD By: QA/QC
Welding Procedure Specification No: HTFSB-WPS-001 Date: 11-Feb-19 Supporting PQR No.(s): HTFSB-PQR-001
Revision No: 0 Date: 11-Feb-19 Reference Code & Standard: ASME IX : 2017
Welding Process (es): GTAW + SMAW Type: MANUAL
(Automatic, Manual, Machine & Semi-Auto)

JOINTS (QW-402)

Joint Design: SINGLE 'V'
Backing (Yes): SMAW (No): GTAW
Backing Material (Type): Weld Metal
(Refer to both backing and retainers)
☐ Metal ☐ Nonfusing Metal
☐ Nonmetallic ☐ Other

Sketches, Production Drawings, Weld Symbols or Written Description should show the general arrangement of the parts to be welded. Where applicable, the root spacing and the details of weld groove may be specified.

(At the option of the Mfrg., sketches may be attached to illustrate joint design, weld layers and bead sequence, e.g., for notch toughness procedures, for multiple process procedures, etc.)



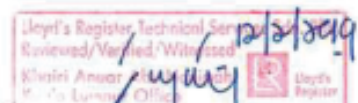
BASE METAL (QW-403)

P-No. 1 Group No. 1 to P-No. 1 Group No. 1
OR
Specification type and grade: Type SA 106 Grade B
to Specification type and grade: Type SA 106 Grade B
OR
Chem. Analysis and Mech. Prop: C-Mn-Si
to Chem. Analysis and Mech. Prop: C-Mn-Si
Thickness Range:
Base Metal: Groove: 5mm - 21.94mm Fillet: ALL
Other: N/A

FILLER METAL (QW-404)

Process	GTAW	SMAW
Spec. No. (SFA):	A5.18	A5.1
AWS No. (Class):	ER70S-G	E 7016
F. No:	6	4
A. No:	1	1
Size of Filler Metal (mm):	ø 2.4	ø 2.6 & ø 3.2
Weld Metal		
Thickness Range		
Groove:	Max 6mm	Max 15.94mm
Fillet:	ALL	ALL
Electrode-Flux (Class):	N/A	N/A
Consumable Trade Name:	KOBELCO TGS-50	KOBELCO LB-52
Consumable Insert:	N/A	N/A
Other:	N/A	N/A

* Each base metal filler combination should be recorded individually



Wps No. HTFSB-WPS-001 Rev. 0**POSITION (QW-405)**

Position (s) of Groove : All
 Weld Progression : Uphill
 Position (s) of Fillet : All

POSTWELD HEAT TREATMENT (QW-407)

Temperature Range : N/A
 Time Range : N/A

PREHEAT (QW-406)

Preheat Temp. Min : Ambient
 Interpass Temp. Max : 350° C
 Preheat Maintenance : N/A
 (Continuous as special heating where applicable should be recorded)

GAS (QW-408)

Percent Composition

	Gas(es)	(Mixute)	Flow Rate
Shielding	Argon	99.99%	12 ~ 18L/M
Tarling	N/A	N/A	N/A
Backing	N/A	N/A	N/A

ELECTRICAL CHARACTERISTICS (QW-409)

Weld Layer(s)	Process	Filler Metal		Current		Volt Range	Travel Speed Range (mm / min)	Heat Input (kj / mm)
		Class	Dia (ø) (mm)	Type Polar	Amp Range			
Root	GTAW	ER70S-G	2.4	DCEN	100 ~ 150	10 ~ 20	90 ~ 160	Max 2.0
Hot Pass	SMAW	E7016	2.6	DCEP	80 ~ 110	20 ~ 30	90 ~ 160	Max 2.0
Filling	SMAW	E7016	3.2	DCEP	90 ~ 130	20 ~ 30	90 ~ 160	Max 2.0
Capping	SMAW	E7016	3.2	DCEP	90 ~ 130	20 ~ 30	90 ~ 160	Max 2.0

Tungsten Electrode Size and Type : 2.4 mm / 2% Thoriated
 (Pure Tungsten, 2% Thoriated, etc)
 Mode of Metal Transfer For GMAW : N/A
 (Spray arc, short circuiting arc, etc)
 Electrode Wire feed speed range : N/A

TECHNIQUE (QW-410)

String or Weave Bead : String / Weave
 Orifice or Gas Cup Size : N/A
 Initial and Interpass Cleaning (Brushing, Grinding, etc) : Brushing & Grinding
 Method of Back Gauging : N/A
 Oscillation : N/A
 Contact Tube to Work Distance : N/A
 Multiple or Single Pass (Per side) : Multiple
 Multiple or Single Electrodes : Single
 Travel Speed (Range) : Refer table
 Peening : N/A
 Other : N/A

Prepared by,

Reviewed by,

Approved by,

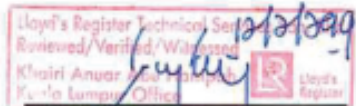
HTFSB QA/QC

Name: FAHMDate: 12/02/2019

Client Representative

Name:

Date:



Third Party

Name:

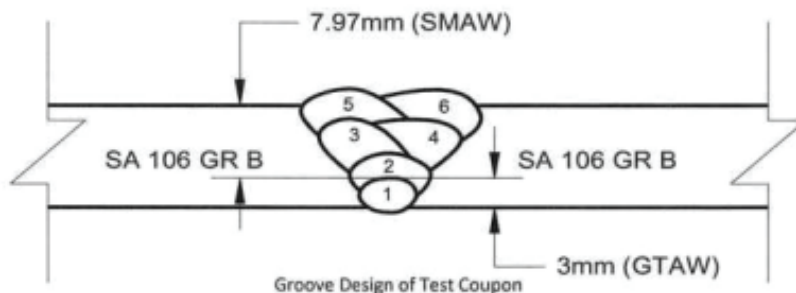
Date:



HIGHER TECH FABRICATOR SDN. BHD.
PROCEDURE QUALIFICATION RECORDS (PQR)

Company Name : HIGHER TECH FABRICATOR SDN BHD
Procedure Qualification Record No : HTFSB-PQR-001 Date : 18-Jan-19
WPS No. : HTFSB-WPS-001
Welding Process (es) : GTAW + SMAW
Types (Manual, Automatic, Semi-Auto) : MANUAL
Reference Code & Standard : ASME IX : 2017

JOINTS (QW-402)



(For combination qualifications, the deposited weld metal thickness shall be recorded for each filler metal or process used)

BASE METAL (QW-403)

Material Spec. : SA 106 to SA 106
Type or Grade : B to B
P-No : 1 to P-No : 1
Group : 1 to Group : 1
Thickness of Test Coupon : 10.97mm
Diameter of Coupon : 6"
Other : N/A

POSTWELD HEAT TREATMENT (QW-407)

Temperature : N/A
Time : N/A
Other : N/A

FILLER METAL (QW-404)

	<u>GTAW</u>	<u>SMAW</u>
SFA Specification	<u>A5.18</u>	<u>A5.1</u>
AWS Classification	<u>ER70S-G</u>	<u>E 7016</u>
Filler Metal F-No	<u>6</u>	<u>4</u>
Weld Metal Analysis A-No	<u>1</u>	<u>1</u>
Size of Filler Metal (mm)	<u>ø 2.4</u>	<u>ø 2.6 & ø 3.2</u>
Other	<u>N/A</u>	<u>N/A</u>

GAS (QW-408)

	<u>Gas(es)</u>	<u>(Mixture)</u>	<u>Flow Rate</u>
Shielding	<u>Argon</u>	<u>99.99%</u>	<u>12 ~ 18L/M</u>
Trailing	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Backing	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

POSITION (QW-405)

Position of Groove : 6G
Weld Progression : Uphill
Other : All

ELECTRICAL CHARACTERISTICS (QW-409)

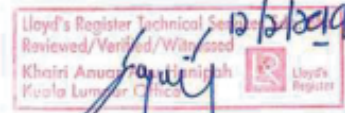
	<u>GTAW</u>	<u>SMAW</u>
Current	<u>DC</u>	<u>DC</u>
Polarity	<u>DCEN</u>	<u>DCEP</u>
Amps /Volts	<u>146 / 14</u>	<u>103-119 / 20-24</u>
Tungsten Electrode Size	<u>2.4 mm/2% Thoriated</u>	
Other	<u>N/A</u>	

PREHEAT (QW-406)

Preheat Temp : Ambient
Interpass Temp : 80°C - 204°C
Other : N/A

TECHNIQUE (QW-410)

	<u>GTAW</u>	<u>SMAW</u>
Travel Speed (mm/min)	<u>94.4</u>	<u>105.5 - 139.2</u>
String or Weave Bead	<u>Both</u>	
Oscillation	<u>N/A</u>	
Multipass or Single Pass	<u>Multipass</u>	
Single or Multiple Electrodes	<u>Single</u>	
Other	<u>N/A</u>	





HIGHER TECH FABRICATOR SDN BHD WELDER PERFORMANCE QUALIFICATION (WPQ)

Welder's name : <u>MOHD HAFIS MOHD ARSAD</u>		Identification no : <u>860403-21-5809</u>	
Test Description			
Identification of WPS followed : <u>HTFSB-WPS-001</u>		☒ Test coupon ☐ Production weld	
Specification of base metal (s) : <u>SA 106 GR B</u>		Thickness : <u>10.97 mm</u>	
Welder no : <u>W/N001</u>			

Testing conditions and qualification limits			
Actual values		Range qualified	
Process 1	Process 2	Process 1	Process 2
GTAW	SMAW	GTAW	SMAW
Manual	Manual	Manual	Manual
Without	With	With & Without	With
Ø 6" Sch 80		Ø 2 7/8" OD to Unlimited	
P 1 Group to P 1 Group 1		P-or S-No. 1 through P-or S-No.15F, P-or S-No. 34, and P-or S-No 41 through P-or S-No. 49 or unassigned metal of similar chemical composition	
SFA 5.18	SFA 5.1	As per qualified F-Number	
ER70S-G	E-7016	As per qualified F-Number	
6	4	All F-No. 6	1B, 2B, 3B, 4B
N/A	N/A	N/A	
Solid	Solid	Solid	
3 mm		Max 6 mm	
7.97mm		Max 15.94 mm	
6G			
		All	
		All	
		All	
Uphill		Uphill	
N/A		N/A	
N/A		N/A	
N/A		N/A	
DCEN		DCEN	

Results					
Visual examination of completed weld (QW-302.4) : <u>Acceptable</u>					
☐ Bend test, ☐ Transverse root and face [QW-462.3(a)]		☐ Longitudinal root and face [QW-462.3(b)],		☐ Side [QW-462.2]	
☐ Pipe bend specimen, corrosion resistant overlay [QW-462.5(c)],		☐ Plate bend specimen, corrosion resistant overlay [QW-462.5(d)]			
☐ Macro test for fusion [QW-462.5(b)]		☐ Macro test for fusion [QW-462.5(e)]			
Type	Result	Type	Result	Type	Result
N/A	N/A	N/A	N/A	N/A	N/A

Alternative radiographic examination results (QW-191) : Acceptable - Refer RT Report No. (TS/RT/TDE/003)

Fillet weld — fracture test (QW-180) : N/A Length and percent of defects : N/A

Macro examination (QW-184) : N/A Fillet size (in.) : N/A x N/A Concavity/convexity (in.) : N/A

Other tests : N/A

Film or specimens evaluated by : NASRAN (ASNT LEVEL II) Company : TOTAL STERLING (M) SDN BHD

Mechanical tests conducted by : N/A Laboratory test no. : N/A

Welding supervised by : Lloyd's Register

We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME BOILER AND PRESSURE VESSEL CODE.

Prepared by : [Signature] Witnessed by : (If required) [Signature] Approved by : [Signature]

Higher Tech Fabricator Sdn Bhd
Date : 12/09/2019

Client
Date : [Signature]

Third Party / Authorized Inspector
Date : [Signature]



HIGHER TECH FABRICATOR SDN BHD

No. 483, 1st Floor, Wisma MCA, Jalan Baharu, 71000 Port Dickson, Negeri Sembilan, Malaysia

Welding Procedure Specification (WPS) AWS D1.1

Qualified by Testing

Company Name : HIGHER TECH FABRICATOR SDN BHD
Welding Process(es) : SMAW
WPS No. : HTFSB-WPS-002
Supporting PQR No.(s) : HTFSB-PQR-002

Revision : 0
Date : 11 FEBRUARY 2019
By : QA/QC
Authorized by : Lloyd's Register
Date : 12 FEBRUARY 2019
Type :
Manual : ☒
Machine : ☐
Semi Automatic : ☐
Automatic : ☐

JOINT DESIGN USED

Type : CJP GROOVE WELD (SINGLE-V)
Single : ☒ Double Weld : ☐
Backing : Yes : ☐ No : ☒
Backing Material : N/A
Root Opening : 0mm - 3mm (+ 2mm) Root Face Dim : 0mm - 3mm (+ 2mm)
Groove Angle : 60° (+ 10°) Radius(J-U) : N/A
Back Gouging : Yes : ☐ Method : N/A
No : ☒

POSITION

Position of Groove : ALL Fillet : ALL
Vertical Progression Up : ☒ Down : N/A

ELECTRICAL CHARACTERISTICS

Transfer Mode (GMAW) Short-Circuiting : ☐ Spray : ☐
Globular : ☐ Pulsed : ☐

BASE METALS

Material Spec. : ASTM A106 Welded To : ASTM A106
Type or Grade : B
Material Grouping : GROUP I
Thickness : 3 mm to 21.94 Fillet : Max 21.94 mm
Diameter (Pipe) : 4" TO UNLIMITED

Current : AC ☐ DCEP ☒ 2nd Pass and Above
DCEN ☒ 1st Pass
Other :
Tungsten Electrode (GTAW) Size : N/A
Type : N/A

TECHNIQUE

Stringer or Weave Bead : STRINGER & WEAVE
Multi-pass or single Pass (per side) : MULTIPASS
Number of Electrodes : SINGLE
Electrode Spacing : Longitudinal : N/A
Lateral : N/A
Angle : N/A
Contact Tube to Work Distance : N/A
Peening : NO
Interpass Cleaning : GRINDING & WIRE BRUSH

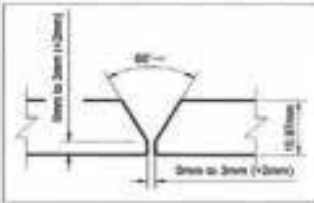
PREHEAT

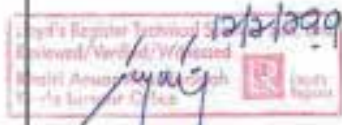
Preheat Temp. Min. 0° C for thickness (0mm - 20mm)
60° C for thickness (20mm above)
Interpass Temp. Max. : 250°C

POST WELD HEAT TREATMENT

Temp. : N/A
Time : N/A
Others : N/A

WELDING PROCEDURE

Pass	Process	Filler Metals		Current			Travel Speed mm / min	Heat Input (kJ/mm)	Joint Details
		Class	Dia.	Type & Polarity	Amperage	Volts			
1 PASS	SMAW	E7018 LB-52U	2.6	DCEN	30 - 80	20 - 30	90 - 160	2.0 max	 And all joint details complying to AWS D1.1 Figure 3.3
2 PASS & ABOVE	SMAW	E7018 LB-52-18	2.6	DCEP	50 - 90	20 - 30	90 - 160	2.0 max	
			3.2	DCEP	80 - 130	20 - 30	90 - 160	2.0 max	
			4.0	DCEP	110 - 180	20 - 30	90 - 160	2.0 max	





HIGHER TECH FABRICATOR SDN BHD

No. 483, 1st Floor, Wisma MCA, Jalan Baharu, 71000 Port Dickson, Negeri Sembilan, Malaysia

Procedure Qualification Records Specification (PQR) AWS D1.1

Qualified by Testing ☒

Company Name : HIGHER TECH FABRICATOR SDN BHD
Welding Process(es) : SMAW
Supporting PQR No.(s) : HTFSB-PQR-002
WPS No. : HTFSB-WPS-002

Revision : 0
Date : 11 FEBRUARY 2019
By : QA/QC
Authorized by : Lloyd's Register
Date : 12 FEBRUARY 2019

Type :
Manual : ☒
Machine : ☐
Semi Automatic : ☐
Automatic : ☐

JOINT DESIGN USED

Type : CJP GROOVE WELD (SINGLE-V)
Single : ☒ Double Weld : ☐
Backing : Yes : ☐ No : ☒
Backing Material : N/A
Root Opening : 4mm
Groove Angle : 60°
Back Gouging : Yes : ☐ No : ☒
Root Face Dim : 2mm
Radius(J-U) : N/A
Method : N/A

POSITION

Position of Vertical Progression : Groove : 6G
Up : ☒ Down : N/A

ELECTRICAL CHARACTERISTICS

Transfer Mode (GMAW) : Short-Circuiting : ☐ Spray : ☐
Globular : ☐ Pulsed : ☐

BASE METALS

Material Spec. : ASTM A106 Welded To : ASTM A106
Type or Grade : B
Material Grouping : GROUP NO I
Thickness : Groove : 10.97 mm Fillet : N/A
Diameter (Pipe) : 6" Sch 40

Current : AC ☐ DCEP ☒ 2nd pass & above
DCEN ☒ 1st pass
Other :
Tungsten Electrode (GTAW) Size : N/A
Type : N/A

FILLER METALS

	(1)	(2)
AWS Classification	E-7016	E-7018
Diameter	2.6	2.6 & 3.2
Manufacturer/Trade Name	LB-52U	LB-52-18 (Kobelco)

SHIELDING

Flux : N/A Gas : N/A
Electro-Flux (Class) : N/A Composition : N/A
Flow Rate : N/A
Gas Cup Size : N/A

TECHNIQUE

Stringer or Weave Bead: STRINGER & WEAWE
Multi-pass or single Pass (per side) : MULTIPASS
Number of Electrodes: SINGLE
Electrode Spacing : Longitudinal: N/A
Lateral: N/A
Angle: N/A
Contact Tube to Work Distance: N/A
Peening: NO
Interpass Cleaning: GRINDING & WIRE BRUSH

PREHEAT

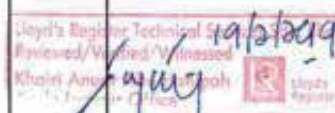
Preheat Temp. : Ambient Temperature
Interpass Temp. Max. : 204°C

POST WELD HEAT TREATMENT

Temp. : N/A
Time : N/A

WELDING PROCEDURE

Pass	Process	Filler Metals		Current			Travel Speed mm/min	Heat input (kJ/mm)	Joint Details
		Class	Dia.	Type & Polarity	Amperage	Volts			
1	SMAW	E7016	2.6	DCEN	80	22	94.4	1.12	
2	SMAW	E7018	2.6	DCEP	106	21	105.5	1.29	
3	SMAW	E7018	3.2	DCEP	119	24	125.5	1.37	
4	SMAW	E7018	3.2	DCEP	118	24	139.2	1.22	
5	SMAW	E7018	3.2	DCEP	105	20	110.9	1.14	
6	SMAW	E7018	3.2	DCEP	103	21	119.2	1.09	





HIGHER TECH FABRICATOR SDN BHD

No. 483, 1st Floor, Wisma MCA, Jalan Baharu, 71000 Port Dickson, Negeri Sembilan, Malaysia

Procedure Qualification Record (PQR) No: HTFSB-PQR-002

Test Results

TENSILE TEST

Specimen No.	Width (mm)	Thickness (mm)	Area	Ultimate Tensile Load, lb	Ultimate Unit Stress, psi	Character of Failure and Location
TT1	20.02	19.99	221.42	11.4 tf	73006 psi	The specimen shows ductile fracture at base metal
				111455 N	503.36 N/mm2	
TT2	19.99	10.35	206.9	10.8 tf	74231 psi	The specimen shows ductile fracture at base metal
				105892 N	511.81 N/mm2	

GUIDED BEND TEST

Specimen No	Type of Bend	Result	Remarks
1	Transverse Side Bend	Pass	No visible open defect was observed
2	Transverse Side Bend	Pass	No visible open defect was observed
3	Transverse Side Bend	Pass	Open defect was observed measuring 0.2mm at the weld metal
4	Transverse Side Bend	Pass	No visible open defect was observed

VISUAL INSPECTION

Appearance : Acceptable
Undercut : NIL
Piping porosity : NIL
Convexity : NIL
Test date : 02 February 2019
Witnessed by : Lloyd's Register

Welder's name : Mohd Hafis Bin Mohd Arsad
I/C No : 860403-23-5809

CHARPY IMPACT TEST

TAG NO.	LOCATION	VALUE	AVERAGE

HARDNESS SURVEY - LOAD 10kgf. TYPE = HVN

TOP	NO	HVN
Base Metal		
HAZ		
Weld Metal		
BOTTOM	NO	HVN
Base Metal		
HAZ		
Weld Metal		

RADIOGRAPHIC-ULTRASONIC EXAMINATION

RT report no: TS/RT/TDE/004 Result: **Accept**
UT report no: N/A Result: N/A

FILLET WELD TEST RESULTS - N/A

Min. size multiple pass : Min. size multiple pass
Macroetch : Macroetch
N/A : N/A

ALL WELD METAL TENSION TEST - N/A

Tensile strength, psi : N/A
Yield point/strength, psi : N/A
Elongation in 2 in., % : N/A

MACRO EXAMINATION

Macro examination shows satisfactory penetration, no lack of fusion inclusions and other defects.

Test conducted by : Metacos Engineering & Testing Services Sdn. Bhd.
Test No: METSB 19-034

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded, tested in accordance with the requirement of AWS D1.1 - 2015 Structural Welding Code

Signed

Title : QA/QC

Name

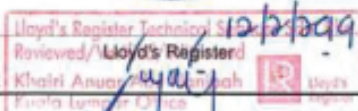
Date : 12/02/2019

Signed

Title : Third Party

Name

Date





HIGHER TECH FABRICATOR SDN BHD

WELDER, WELDING OPERATOR OR TACK WELD QUALIFICATION TEST RECORD

Type of Welder : SMAW	Welder No. : WN001
Name : MOHD HAFIS BIN MOHD ARSAD	Identification No. : 860403-23-5809
Welding Procedure Specification No. : HTFSB-WPS-002	Rev : 0 Date : 18 JANUARY 2019

Variables	Record Actual Values Used in Qualification	Qualification Range
Process / Type [Table 4.12, Item (1)]	SMAW	SMAW
Electrode (single or multiple) [Table 4.12, item (7)]	Single	Single
Current / Polarity	DCEP	DCEP
Position [Table 4.12, item (4)]	6G	All Positions
Weld Progression [Table 4.12, item (5)]	Uphill	Uphill
Backing (Yes or No) [Table 4.12, item (6)]	NO	WITH & WITHOUT
Material Spec	ASTM A106 GR.B	All base material in Table 3.1
Base Metal		
Thickness : (Plate)		
Groove	N/A	5 mm to Unlimited
Fillet	-	5 mm to Unlimited
Thickness : (Pipe / Tube)		
Groove	10.97 mm Thk.	5 mm to 21.94 mm
Fillet	N/A	5 mm to 21.94 mm
Diameter : (Pipe)		
Groove	6 in.	4 in. OD to Unlimited
Fillet	N/A	All
Filler Metal [Table 4.12]		
Spec. No.	SFA 5.1	SFA 5.1
Class	E-7016 & E7018	E-7016 & E-7018
F-No [Table 4.12, item (2)]	4	4
Gas / Flux Type [Table 4.12]	N/A	N/A
Other	N/A	N/A

VISUAL INSPECTION (4.8.1)

Acceptable: YES or NO Yes

Guided Bend Test Results (4.30.5)

Type	Results	Type	Results
N/A	-	N/A	-
N/A	-	N/A	-

Fillet Test Results (4.30.2.3 and 4.30.4.1)

Appearance : N/A	Filler Size : N/A
Fracture test root penetration : N/A	Macroetch : N/A
(Describe the location, nature and size of any crack or tearing of specimen)	
Inspected by : N/A	Test Number : N/A
Organization : N/A	Date : N/A

RADIOGRAPHIC TEST RESULTS (4.30.3.2)

Film Identification	Results	Remarks	Film Identification	Results	Remarks
Number			Number		
0 - 18	Accept	NSD	36 - 0	Accept	NSD
18 - 36	Accept	Porosity			

Interpreted by : Mr. Nasran	Test Number : TS/RT/TDE/004
Organization : Total Sterling H.T. Sdn. Bhd.	Date : 23 JANUARY 2019

We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared welded and tested in accordance with the requirements of Section 4 of AWS D1.1, (2015) Structural Welding Code - Steel.

Manufacturer or Contractor : Higher Tech Fabricator Sdn. Bhd.

Authorized By : Lloyd's Register

Date :



OUR SERVICE

→ GAS & PIPING/PIPE LINE

We ensure the engineering methodology that comprises of latest technology is utilized to profitably produce, transport and distribute these products.

Higher Tech Engineering provide clients with a complete oil and gas pipeline solution from GIS capability, distributed control and instrumentation packages and a solid background in permits and community relations as well as the ability to design and optimise the actual pipeline itself. We have the practical experience, technical background and specialized tools necessary to meet owner specifications and government regulations. Our engineering management covers the entire spectrum of engineering services, ranging from basic and detailed engineering to construction supervision and project commissioning. We ensure the highest quality standards by combining advanced technology with extensive knowledge and experience.



→ STEEL STRUCTURE & INSTALLATION

Often times challenging project requires complex Steel Fabrication. Our clients put their trust to our unmatched capabilities of meeting their complex design-build requirements. As the recognized expert in steel fabrication industries, the core priority of our company is to successfully exceed client expectation by focusing on innovation, knowledge and commitment on every each of our professional work product.



→ STEEL STRUCTURE & INSTALLATION



→ STEEL REPAIR & MAINTENANCE

We provide of steel repair and maintenance services not only in oil and gas but also in other engineering industries. We will meet all your needed repairs and maintenance according to your specifications.

Dedicated to provide quality services at an affordable price regardless of the scope of work received either major or minor. With our qualified technicians and extensive experience, we will ensure the repair and maintenance of our service will not dissappoint you.



→ STEEL REPAIR & MAINTENANCE



→ SHIP & RIG REPAIR AND MAINTENANCE

With an open sea accessible, strategic and ISPS location in the main yard of Labuan and Peninsular Malaysia, Higher Tech Engineering is dedicated in hiring the most experienced and talented management team who understand the need to safely re-deliver a vessel on-time and on-budget. Our shipyards and our people are committed to quality, continuous improvement.



→ SHIP & RIG REPAIR AND MAINTENANCE



→ **BLASTING & PAINTING WORKS**

We provides various types of blasting and painting services in all engineering industry. We understand that surface preparation is essential for satisfactory performance of all paint systems will fail if surface preparation is inadequate either in cleanliness or profile.

Our highly skilled blasters and painters are committed to provide the best solutions, methods, quality and value in areas such as Shipyards, LNG Plants, fabrication facilities, offshore and onshore projects and more. We work in difficult to reach locations, for repair work or where there are time restraints in completing a project. Rope Access is a mean to complete your project safely, on-time and within budget. All our coating system are applied in accordance with the respective paint manufactures specifications. This process closely monitored throughout the coating application.



→ **BLASTING & PAINTING WORKS**



→ SEA FASTENING SERVICE

We understand the need for safety securing cargo and abnormal loads at sea in order that no movement occurs that may result in costly damage. The safe passage of vessel, cargo and crew remain paramount in the provision of sea fastening services and we endeavour to design bespoke sea fastening systems to meet the needs of individual cargo and ships/barges. We are committed and deliver services to the most demanding requirements of offshore transportation with the capabilities of customising solutions to suit your specific requirements.

With many years of experience in the oil and gas and engineering industry, we pride ourselves in knowing what you need, why you need it and having the best solution available.



→ SEA FASTENING SERVICE



→ TANK & BUNDLE CLEANING SERVICE

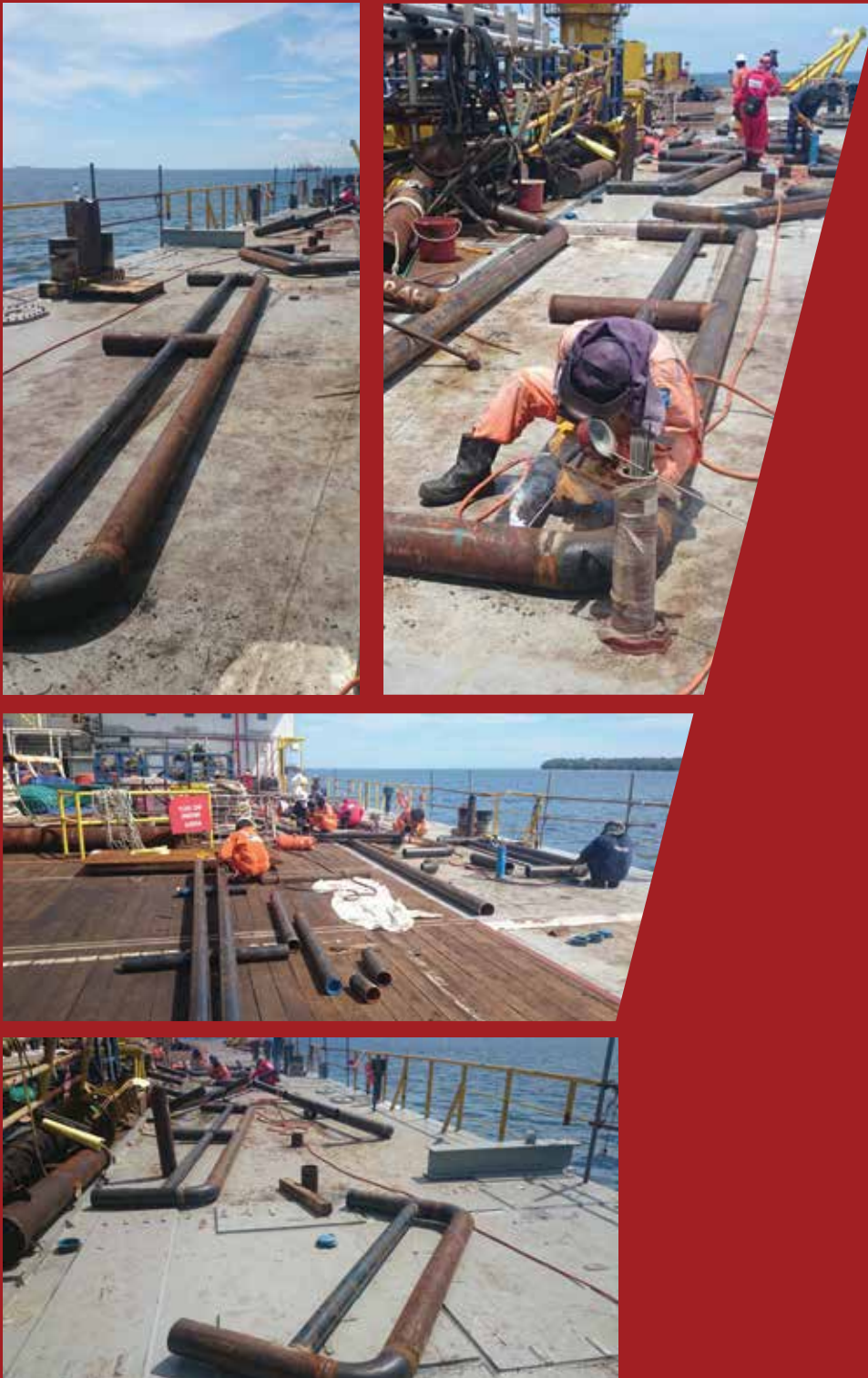
We are specializes in cleaning tanks that are utilized to store various chemical product types including crude oil, fuel oil, slop oil, hazardous chemicals, wastewater, asphalt and other products.

From routine maintenance to remove solids and sludge, decontamination measures, tank renovation or the demolition and decommissioning of a tank, our trained personnel will perform the storage tank cleaning.



→ BARGE HAND DRILLING WORKS

The main function of handrails is to act as a barrier and guidance. Handrails are an excellent safety barrier in case someone trips, misses a step, or loses balance. To prevent any accidents in the work area, Higher Tech Engineering plays a big role in providing separation, support, and safety for our customers.



→ BARGE HAND DRILLING WORKS



OUR MACHINE

LATHE MACHINE



AIR COMPRESSOR



MILLING MACHINE



**HYDRAULIC PRESS
MACHINE 100TONNES**



FORKLIFT 3 TONNES



AIR COMPRESSOR CFM3000



BLASTING PORT



AIRTANK



BLASTING & PAINTING AREA



COMPANY WORK EXPERIENCE

FABRICATE GRILLAGE SKID, INSTALLATION & SEAFASTENING ROV SYSTEM



TUGGER FRAME



TA PROJECT PETRONAS MELAKA MRCSB



SKD ESPERANZA JACK UP RIG ROV PROJECT



VESSEL AT 300 SAPURA SUBSEASERVICES SHELL

In October 2025, HTESB was officially appointed as the In-House Contractor with Total Marine Technology (Malaysia) Sdn. Bhd.



X



COMPLETED PROJECT

HYDROTEST WORKS



VALVE SEAT & POP TEST



HYDRAULIC HOSES REPLACEMENT WORKS



HYDRAULIC PUMP SOFT BLAST & PAINTING WORKS



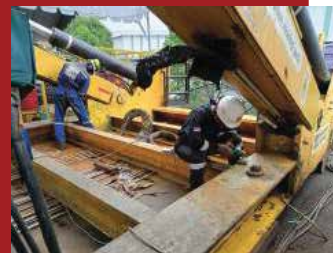
ROV THRUSTER BLASTING & PAINTING WORKS



T1 ROV FIBER SANDING CLEANING & PAINTING WORKS



LARS CHIPPING & PAINTING WORKS



LARS T30 REFURBISHMENT & PAINTING WORKS



GREASING WORKS T30 WINCH



GENERATOR SET SKID WORKS



ROV FIBER BOUYANCY & PAINTING WORKS



VANTAGE FILTER BOX REPAIRING WORKS



T9 ROV & CONTAINER REFURBISH WORKS





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With the test of time, our strength and reliability have endured for four generations as the Malaysia's leading custom steel fabricator also in oil and gas industries. Since 2014, Standard Steel Fabricating has supplied and fabricated steel components for virtually every type of steel building construction and marine structure.

Founded on the principle of delivering the best product at a reasonable price and a strong work ethic, Standard Steel continues to meet the most demanding



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Kemaman Supply Base,
24007 Kemaman,
Terengganu Darul Iman.

LABUAN BRANCH

Lot No.39, IKS MPL Jalan
Ranca-Ranca, Ranca-Ranca
Industrial Estate, 87000,
Wilayah Persekutuan Labuan.



