CLASS A WELDER



CURRICULUM VITAE

MR. EKKALAK PON-AR-SA

PERSONAL DATA

Name	Ekkalak Pon-ar-sa
Passport No	AC2982445
Validate	Date of issue 28 MAR 2022
ID Card	3 6498 00121 41 1
Address	99/6 Moo 4 Fay Laung Laplae District Uttaradit 53130
Height	172 Cm.
Weight	75 Km.
Education	High School
Marriage	Single
Date of Birth	13 JUN 1982
Religion	Buddhism
Nationality	Thai
Sex	Male
Phone	+66 613988025
E-mail	ekkalak.19822@gmail.com

SUMMARY WORKS EXPERIENCE

I have 16 year's experience as a welder having works. In Oil Refinery 's Gas Separation plant and Power plant.

My works has included. SMAW,GTAW in India, Malaysia south Africa, Alger, Canada, Kuwait.

Carbon steel P1,stainless ER 308L,316L Duplex p10H and. P91 ER90S-B9

WORK EXPERIENCE

11-01-2005- to 12-11-2005 INDORAMA Project (1.2270-0-C)

Position : Pipe Fitter

Company : Sino-Thai Engineering& Construction

Location Project : Mapta Phut Industrial, Rayong Thai Land.

CLASS A WELDER

15-11-2005 to 14-03-2006 Feed Fractionation Revamp & Cyclohexane Project
Position : Pipe Fitter
Company : Thai Woo Ree Engineering Co, Ltd.
Location Project : Aromatics (Thailand) Mapta Phut Rayong

27-06-2006- to 27-07-2006 EVEREST PROJECT
Position : :Tig Welder material No.P1 Thickness
11.08 mm. Process GTAW+SMAW Pipe 2"
Company Toyo-Thai Corporation LTD.
Location Project Mapta Phut Rayong Thailand

15-09-2006 to 15-10-2006 PARAX INDIA PROJECT
Position :Tig welder P-1 GTAW Thk. 11.08 PiPe OD 1"
Company CR Industrial Service Co.,Ltd
Location Project INDIA

16-01-2007 to 16-02-2007 S.P.M. PROJECT
Position Tig welder P-1 GTAW Thk.13.94mm.
Pipe 2-7/8"
Company BJC PLANT INDUSTRIAL CO.,LTD.

21-02-2007 TO 21-03-2007 HYDRA ARC
Position :Tig welder P-8 GTAW+ SMAW P-1 GTAW+SMAW
Location :South Africa Sasol shutdown 2007

30-03-2007 to 15-04-2007 PARX CHAMBER
Position :Tig welder
Company :CR Industrial Service Co., Ltd.
Location : MALAYSIA

CLASS A WELDER

14-05-2007 to 14-11-2007 TCL PROJECT

Position :TiG welder material A106 P-1Process: GTAW 2" SCH40 GTAW+SMAW 6"SCH.40

Position 6G Filler metal ER 705-6+E7016

13-01-2008 to 11-12-2009 PTT ME PROJECT

Position : Tig welder W/D NO.0156

Process : GTAW 1I" over ER 705-G P.1
GTAW 1" over ERNICR-3 P-43
GTAW/SMAW 27/8" over ER 705-G/E-7016 P-1
GTAW/SMAW27/8" over ER 316L/E316-16 P-8
GTAW/SMAW27/8" over ER 502/ER502-16 P5A
GTAW/SMAW27/8" over ER 905-B9 P91
PTT Maintenance & Engineering Co., Ltd.

Location Rayong Thailand

21-12-2009 to 08-01-2010 KTC SKILLS TESTING CENTER

Position Tig welder instructor for testing

07-07-2010 to 30-06-2012 Rh9oude Nouss,illizi Project.

Position: Tig welder GTAW/SMAW ER7053/E7018 27/8" Thk.36.52mm.
GTAW/SMAW ER316L/E316L 27/8" Thk.21,94 mm.
GTAW/SMAW P10H 15,54 mm.

Company : SNC-LAVALIN International inc.

Location : ALGER

09-15-2014 to 09-06-2015

Position : Tig welder 6 G

Company : TDE Thermo Design

Location : CANADA

CLASS A WELDER

01-08-2015 to 20-12-2016 c-31501 PITOBEAS-FPSO-TUP BARZ

Position : Tig welder and FOREMAN

Company : SKP.2015Engineering

25-08-2016 to 31-05-2018 KUSILE Power Station Project.

Position : Tig welder carbon steelalloyP22,P91etc.

Company : Murray & Roberts(Pty)Ltd

Location : South Africa
Tel+27 114561000 Fax+27114551264
E-mail info project5@murrob.com

23-02-2019 to 23-01-2020

Project :UPGN66AKIDS,SANTOS GLNG

Position :GATW ,SMAW welder

Company :BJC Heavy Industries Public Company Limited

Location :Rayong Thailand

16-02-2020to19-09-2020

Employee Number :HEC-20736

Project :Al-Zour LNG Import

Position :Tig welder

Company :DAEAH Engineering and Construction.

Location :KUWAIT

20-12-2020 to 20-05-2021

Position :Pipe welder W-ISBL-006

Project :NFCTFUEL TANKFRAM.

Company :Tech vice

Location :Rayong Thailand

CLASS A WELDER

30-05-2021 to 25-06-2021

Position : PiPe welder BCP-WQ-024
Project : Bangchak Corporation PLC
Company :TCM
Location : Bangkok Thai land

29-08-2021

Position : PiPe welder w 002
Project : testing for pipe line
Company : CHEMO AHARON
Process : ER 90S - B9 + E 9015 - B9
Location : KTC Thai Land

05-01-2022 to 20-02-2022

Position : PiPe welder
Project : AMGT-E-Factory (AGC)
Company : TTC
Location : Thai Land

22-02-2022 to 20-02-2023

Position : PiPe welder 001
Project : MTL_NL_A-Building&other accessory
Company : TAIKISHA
Location : Thai Land

16-05-2023 to 29-08-2025

Position : PiPe welder w1158
Project : SPARROW INTEL
Company : CHEMO AHARON
Location : Israel

CLASS A WELDER

24-09-2025 to Present
Position: PiPe welder WD - 094
Project: SEQUOIA NAKHONSAWAN
Company: LCBSTRR
Location: NAKHONSAWAN THAI LAND

Declaration

I Hereby declare that all statements Made in the above personal Data's are correct and complete to the best of the best of my knowledge.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

MR EKKALAK PON-AR-SA

หนังสือเดินทางนี้มี ๖๖ หน้า
This passport contains 66 pages

Passport No.
AC2982445

OFFICIAL OBSERVATIONS

The holder of this passport has previously travelled on Passport No. AA9798502 issued by the Ministry of Foreign Affairs in Bangkok on 27 AUG 2018.

Passport Division, Bangkok.

KINGDOM OF THAILAND — ราชอาณาจักรไทย

PASSPORT
หนังสือเดินทาง

Type / ชนิด: P
Country Code / ประเทศ: THA
Passport No. / หนังสือเดินทางเลขที่: AC2982445

Surname / นามสกุล
PON-AR-SA

Title / Name / คำนำหน้าชื่อ / ชื่อ
MR. EKKALAK

Name in Thai / ชื่อภาษาไทย
นาย เอกลักษณ์ พลอาสา

Nationality / สัญชาติ: THAI
Date of Birth / วันเกิด: 13 JUN 1982
Identification No. / เลขประจำตัวประชาชน: 3649800121411

Sex / เพศ: M
Place of Birth / สถานที่เกิด: SUKHOTHAI

Height / ส่วนสูง: 1.72M
Date of Issue / วันที่ออก: 28 MAR 2022
Date of Expiry / วันที่หมดอายุ: 27 MAR 2032

Issuing Authority / ออกให้โดย: MINISTRY OF FOREIGN AFFAIRS
Holder's Signature / ลายมือชื่อผู้ถือหนังสือเดินทาง

P<THAPON<AR<SA<<EKKALAK<<<<<<<<<<<<<<<<<<<<<<<<
AC29824452THA8206130M3203271364980012141l<22

061-3988025

NDT TRAINING CENTER

RADIOGRAPHIC TESTING (RT) REPORT

Report No.:	KTC - RT - WD02
Request No.:	QT - TRA - 056
Date of test:	29 AUGUST 2021
Page:	1 OF 2

CUSTOMER:	CHEMO AHARON ENERGY INFRASTUCTURES COMPANY LIMITED	
PROJECT NAME:	ISRAEL NATURAL PIPE LINE	
ITEM DESCRIPTION:	WELDER QUALIFICATION	
ACCEPTANCE STANDARD:	ASME IX:2010 Rev.00	
PROCEDURE:	NDT - RT - 01	REV.0

EQUIPMENT, MATERIALS & OPERATION PARAMETERS...

RADIATION SOURCE		EXPOSURE & TECHNIQUE		FILM	
X-RAY EQUIP:	P34 GAMMA RAY PROJECTOR	EXPOSURE TIME:	1 MINUTE 20 SEC	BRAND:	AGFA
TUBE VOLTAGE:	N/A	TECHNIQUE:	DWSI	TYPE:	D4
TUBE CURRENT:	N/A	SOD/OFD:	157.03 / 10.97 mm.	SIZE:	3.5"X8.5"
GAMMA RAY TYPE:	IR-192	IQI TYPE/SIZE:	ASTM-1B	INTENSIFYING SCREEN PB	
SOURCESTRENGTH:	29.0 CI	NO OF FILM/ FOLDER:	4/1	FRONT:	0.125 MM.
SOURCE SIZE:	2.50 X 2.50 MM.	% OF EXAM:	100%	BACK:	0.125 MM.
FILM PROCESSING:	☐ AUTO ☒ MANUAL				

PART IDENTIFICATION & INFORMATION...		REINFORCEMENT:	
ISO/DWG NO.:	N/A	DESCRIPTIONS:	PIPE 6"
WPS NO.:	WPS 715	WELDING PROCESS:	GTAW+SMAW (ER90S-B9+E9015-B9)
MATERIAL:	ASTM A106 GR.B	MATERIAL THICKNESS:	10.97 MM.

SYSTEM PERFORMANCE...		REINFORCMENT:	
SENSITIVITY REQUIRED:	ESSENTIAL WIRE NO. 8	DENSITY REQUIRED	2.0-4.0
SENSITIVITY ACHIEVED:	SMALLEST VISIBLE WIRE NO. 7		
SENSITIVITY NORMALLY REQUIRED:	SENSITIVITY 2%		

OPERATOR NAME:

WELD/JOINT/RADIOGRAPH IDENT...			INTERPRETATION				RESULT		REMARK
JOINT/WELD	WELDER NO.	LOCATION	UG	DEFECT SIZE	DENSITY	TYPE DEFECT	ACC	REJ	
MR. EKKALAK PON-AR-SA									
6G	WD02	A-B	1.679	-	2.5-3.0	NAD	ACC	-	
		B-C	1.679	-	2.6-3.0	NAD	ACC	-	
		C-D	1.679	-	2.4-2.9	NAD	ACC	-	
		D-A	1.679	-	2.3-2.9	NAD	ACC	-	

ABBREVIATION:

C: CRACK
IP: INCOMPLETE PENETRATION
SF: SURFACE FLAW
NO: NO RELEVANT INDICATION
TI: TUNGSTEN INCLUSION
OFD: OBJECT TO FILM DISTANCE

CV: CONCAVITY
LF: LACK OF FUSION
SI: SLAG INCLUSIONS
UC: UNDERCUT
E & V: EXPOSURE & VIEWING
NAD: NO APPARENT DEFECT

EP: EXCESS PENETRATION
P: GAS CAVITIES
SL: SLAG LINEAR
CP: CLUSTER POROSITY
SOD: SOURCE TO OBJECT DISTANCE

AUTHORIZATION	INTERPRETER NAME:	REVIEWED/WITNESSED BY :	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:
COMPANY:	NDT TRAINING CENTER CO.,LTD.	NDT TRAINING CENTER CO.,LTD.	KTC SKILLS TESTING CENTER		
SIGNED:					
NAME:	MR. SAKDA S.	MR.PORNCHAI K.	MR. CHANUTH P.		
DATE:	02 September 2021	03 September 2021	03 September 2021		

NDT TRAINING CENTER

RADIOGRAPHIC TESTING (RT) REPORT

Report No.:	KTC - RT - WD02
Request No.:	QT - TRA - 056
Date of test:	29 AUGUST 2021
Page:	2 OF 2

CUSTOMER:	CHEMO AHARON ENERGY INFRASTUCTURES COMPANY LIMITED	
PROJECT NAME:	ISRAEL NATURAL PIPE LINE	
ITEM DESCRIPTION:	WELDER QUALIFICATION	
ACCEPTANCE STANDARD:	ASME IX:2010 Rev.00	
PROCEDURE:	NDT - RT - 01	REV.0

EQUIPMENT, MATERIALS & OPERATION PARAMETERS...

RADIATION SOURCE		EXPOSURE & TECHNIQUE		FILM	
X-RAY EQUIP:	P34 GAMMA RAY PROJECTOR	EXPOSURE TIME:	3 MINUTE 15 SEC	BRAND:	AGFA
TUBE VOLTAGE:	N/A	TECHNIQUE:	DWDI	TYPE:	D4
TUBE CURRENT:	N/A	SOD/OFD:	447.7 / 60.3 MM.	SIZE:	3.5"X8.5"
GAMMA RAY TYPE:	IR-192	IQI TYPE/SIZE:	ASTM-1A	INTENSIFYING SCREEN PB	
SOURCESTRENGTH:	29.0 CI	NO OF FILM/ FOLDER:	2/1	FRONT:	0.125 MM.
SOURCE SIZE:	2.50 X 2.50 MM.	% OF EXAM:	100%	BACK:	0.125 MM.
FILM PROCESSING:	☐ AUTO ☒ MANUAL				

PART IDENTIFICATION & INFORMATION...		REINFORCEMENT:	
ISO/DWG NO.:	N/A	DESCRIPTIONS:	PIPE 2"
WPS NO.:	WPS 701	WELDING PROCESS:	GTAW (ER90S-B9)
MATERIAL:	ASTM A106 GR.B	MATERIAL THICKNESS:	5.54 MM.

SYSTEM PERFORMANCE...		REINFORCMENT:	
SENSITIVITY REQUIRED:	ESSENTIAL WIRE NO. 6	DENSITY REQUIRED	2.0-4.0
SENSITIVITY ACHIEVED:	SMALLEST VISIBLE WIRE NO. 6		
SENSITIVITY NORMALLY REQUIRED:	SENSITIVITY 2%		

OPERATOR NAME:

WELD/JOINT/RADIOGRAPH IDENT...			INTERPRETATION				RESULT		REMARK
JOINT/WELD	WELDER NO.	LOCATION	UG	DEFECT SIZE	DENSITY	TYPE DEFECT	ACC	REJ	
MR. EKKALAK PON-AR-SA									
6G	WD02	A	0.40	-	2.6-2.9	NAD	ACC	-	
		B	0.40	-	2.6-2.9	NAD	ACC	-	

ABBREVIATION:

C: CRACK
IP: INCOMPLETE PENETRATION
SF: SURFACE FLAW
NO: NO RELEVANT INDICATION
TI: TUNGSTEN INCLUSION
OFD: OBJECT TO FILM DISTANCE
CV: CONCAVITY
LF: LACK OF FUSION
SI: SLAG INCLUSIONS
UC: UNDERCUT
E & V: EXPOSURE & VIEWING
NAD:NO APPARENT DEFECT
EP: EXCESS PENETRATION
P: GAS CAVITIES
SL: SLAG LINEAR
CP: CLUSTER POROSITY
SOD: SOURCE TO OBJECT DISTANCE

AUTHORIZATION	INTERPRETER NAME	REVIEWED/WITNESSED BY :	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:
COMPANY:	NDT TRAINING CENTER CO.,LTD.	NDT TRAINING CENTER CO.,LTD.	KTC SKILLS TESTING CENTER		
SIGNED:					
NAME:	MR. SAKDA S.	MR.PORNCHAI K.	MR. CHANUTH P.		
DATE:	02 September 2021	03 September 2021	03 September 2021		

WELDER PERFORMANCE QUALIFICATION TEST (WPQT)



Welder's name: Mr. Ekkalak Pon-ar-sa | Welder No.: WD-002 | Identification no.: AA9798502

Test Description

Identification of WPS followed: CHM-WLD-WPS-701 [x] Test coupon [ ] Production weld

Specification and type/grade or UNS Numberof base metal (s): ASME SA 106 Gr. B to itself | Thickness: 5.54 mm.

Testing Variables and Qualification Limits

Welding Variables (QW-350)	Actual Values	Range Qualified
Welding Process (es)	GTAW	GTAW
Type (i.e.; manual, semi-automatic) used	Manual	Manual
Backing [with (W) / without (WO)]	backing (WO)	backing (W) / (WO)
[ ] Plate [x] Pipe (enter diameter if pipe or tube)	60.32 mm. O.D.	Plate and pipe 25 mm. O.D. and Over
Base metal P-Number to P-Number	P No. 1 to P No. 1	P-No.1 though P.No.15F, P-No.34
Filler metal or electrode specification (s) (SFA) (info only)	AWS A5.28	and P-No.41 though P-No.49
Filler metal or electrode classification (s) (info only)	ER90S-B9	
Filler metal F-Number (s)	F-No. 6	F-No. 6
Consumable insert (GTAW or PAW)	None	None
Filler Metal Product From(Solid/metal or flux cored/powder) (GTAW or PAW)	Bare	Bare
Deposit thickness for each process		
Process 1: GTAW 3 layers minimum [ ] Yes [x] No	5.54 mm	11.08 mm (MAX)
Process 2: N/A 3 layers minimum [ ] Yes [ ] No	-	-
Position qualified (2G, 6G, 3F, etc.)	6G	All position
Vertical progression (uphill or downhill)	Uphill	Uphill
Type of fuel gas (OFW)	-	-
Inert gas backing (GTAW, PAW, GMAW)	Argon	Argon
Transfer mode (spray/globular or pulse to short circuit-GMAW)	-	-
GTAW current type/polarity (AC, DCEP, DCEN)	DCEN	DCEN

RESULTS

Visual examination of completed weld (QW-302.4): **Acceptable**

[x] Transverse face and root bends [QW-462.3(a)] [ ] Longitudinal bends [QW-462.3(b)]; [ ] Side bends (QW-462.2);

[ ] Pipe bend specimen, corrosion-resistant weld metal overlay [QW-462.5(c)]; [ ] Plate bend specimen, corrosion-resistant weld metal overlay [QW-462.5(d)];

[ ] Pipe specimen,macro test for fusion [QW-462.5(b)]; [ ] Plate specimen,macro test for fusion [QW-462.5(e)]

Type	Result	Type	Result	Type	Result
Face bend	No open discontinuity	N/A	N/A	N/A	N/A
Root bend	No open discontinuity	N/A	N/A	N/A	N/A

Alternative radiographic examination results(QW-191): Acceptable (Report No. KTC-RT-WD02) RT [x] or UT [ ] (check one)

Fillet weld - fracture test (QW-181.2): Not applicable | Length and percent of defects: None

[ ] Fillet welds in plate [QW-462.4(b)] [ ] Fillet welds in pipe [QW-462.4(c)]

Macro examination (QW-184): Not applicable | Fillet size (in.): - X - | Concavity/convexity (in.): -

Other tests: N/A

Film or specimens evaluated by: Mr. Sakda S. | Company: NDT Traning Center Co.,Ltd.

Mechanical tests conducted by: IS Industrie (Thailand) Ltd. | Laboratory test no.: MECH-BEN21-013

Welding supervised by: KTC Skills Testing Center (Thailand)

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.

Reviewed by : Mr. Chanuth Pangma
Welding Supervisor/WIS5/SUR-CNI/10/02/241

Manufacturer or Contractor : Chemo Aharon Energy Infrastructures Co.,Ltd

Certified by : KTC Skills Testing Center

Date of Welding : 29th August, 2021

Date : 13rd September, 2021

WELDER PERFORMANCE QUALIFICATION TEST (WPQT)



Welder's name: Mr. Ekkalak Pon-ar-sa | Welder No.: WD-002 | Identification no.: AA9798502

Test Description

Identification of WPS followed: CHM-WLD-WPS-715 [x] Test coupon [ ] Production weld

Specification and type/grade or UNS Numberof base metal (s): ASME SA 106 Gr. B to itself | Thickness: 10.97 mm.

Testing Variables and Qualification Limits

Welding Variables (QW-350)	Actual Values	Range Qualified
Welding Process (es)	GTAW+SMAW	GTAW+SMAW
Type (i.e.; manual, semi-automatic) used	Manual	Manual
Backing [with (W) / without (WO)]	GTAW (WO) ; SMAW (W)	with backing for SMAW only
[ ] Plate [x] Pipe (enter diameter if pipe or tube)	168.30 mm O.D.	Plate and pipe 73 mm. O.D. and Over
Base metal P-Number to P-Number	P No. 1 to P No. 1	P-No.1 though P.No.15F, P-No.34
Filler metal or electrode specification (s) (SFA) (info only)	AWS A5.28 (GTAW) + A5.5 (SMAW)	and P-No.41 though P-No.49
Filler metal or electrode classification (s) (info only)	ER90S-B9 + E9015-B9	
Filler metal F-Number (s)	F-No. 6 / F-No. 4	F-No. 6 / F-No. 4
Consumable insert (GTAW or PAW)	None	None
Filler Metal Product From(Solid/metal or flux cored/powder) (GTAW or PAW)	Bare	Bare
Deposit thickness for each process		
Process 1: GTAW 3 layers minimum [ ] Yes [x] No	4.8 mm.	9.6 mm maximum
Process 2: SMAW 3 layers minimum [x] Yes [ ] No	6.17 mm.	12.34 mm. maximum
Position qualified (2G, 6G, 3F, etc.)	6G	All position
Vertical progression (uphill or downhill)	Uphill	Uphill
Type of fuel gas (OFW)	-	-
Inert gas backing (GTAW, PAW, GMAW)	Argon	Argon
Transfer mode (spray/globular or pulse to short circuit-GMAW)	-	-
GTAW current type/polarity (AC, DCEP, DCEN)	DCEN/DCEP	DCEN/DCEP

RESULTS

Visual examination of completed weld (QW-302.4): **Acceptable**

[x] Transverse face and root bends [QW-462.3(a)] [ ] Longitudinal bends [QW-462.3(b)]; [ ] Side bends (QW-462.2);

[ ] Pipe bend specimen, corrosion-resistant weld metal overlay [QW-462.5(c)]; [ ] Plate bend specimen, corrosion-resistant weld metal overlay [QW-462.5(d)];

[ ] Pipe specimen,macro test for fusion [QW-462.5(b)]; [ ] Plate specimen,macro test for fusion [QW-462.5(e)]

Type	Result	Type	Result	Type	Result
Face bend	No open discontinuity	N/A	N/A	N/A	N/A
Root bend	No open discontinuity	N/A	N/A	N/A	N/A

Alternative radiographic examination results(QW-191): Acceptable (Report No. KTC-RT-WD02) RT [x] or UT [ ] (check one)

Fillet weld - fracture test (QW-181.2): Not applicable | Length and percent of defects: None

[ ] Fillet welds in plate [QW-462.4(b)] [ ] Fillet welds in pipe [QW-462.4(c)]

Macro examination (QW-184): Not applicable | Fillet size (in.): - X - | Concavity/convexity (in.): -

Other tests: N/A

Film or specimens evaluated by: Mr. Sakda S. | Company: NDT Traning Center Co.,Ltd.

Mechanical tests conducted by: IS Industrie (Thailand) Ltd. | Laboratory test no.: MECH-BEN21-005

Welding supervised by: KTC Skills Testing Center

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.

Reviewed by : Mr. Chanuth Pangma | Manufacturer or Contractor : Chemo Aharon Energy Infrastructures Co.,Ltd

Welding Supervisor/WIS5/SUR-CNI/10/02/241 | Certified by : KTC Skills Testing Center

Date of Welding : 29th August, 2021 | Date : 13rd September, 2021

IS Industrie (Thailand) Ltd.
777/32 Moo.9, Bang-Pla,
Bang-Phli, Samutprakarn 10540 Thailand

Tel : 66 2 136 6933-6
Fax : 66 2 136 6937-8
Email : contact.th@isgroupe.com
Website : www.is-industrie.co.th

Test Report

Bend Testing

Customer Name	: Chemo Aharon Energy Infrastructures Co., Ltd.	Report n°.	: MECH-BEN21-005
Project Name	: Israel Pipe Line Project	IS Transaction n°.	: IS/B-21-09-0654
WPS No.	: WPS 715	Customer ref. n°	:
Material Grade	: ASTM-A106 Gr.B	MAT job n°	: 21403/2
Material Characteristic	: Pipe NPS 6" Thickness 10.97 mm.	Test date	: 09/09/2021
Welder Name	: Mr. EKKALAK PON-AR-SA	Report date	: 10/09/2021
Welder ID.	: WD02		
Welding process / Position	: GTAW+SMAW / 6G		
Filler Metal	: ER90S-B9+E9015-B9		

Standard of Test	: ISO 5173:2021 Destructive tests on welds in metallic materials – Bend tests
Specimen Preparation	: Face and Root Bend Specimens
Method of Test	: Bend Test
Equipment / Serial No.	: DRW. No.0201
Ambient temperature	: 24.5 °C

Results:

MAT Job No.	Location / Type of Bending	Dimension Specimen (mm.)			Dia. Of Mandrel (mm)	Bending angle	Visual Examination Result
		Thickness	Width	Length			
21403/2-1	Transvers / Root Bend	11.15	20.13	159.60	40	180°	No open discontinuity
21403/2-2	Transvers / Face Bend	10.93	20.03	163.60	40	180°	No open discontinuity
Acceptance Criteria ISO 9606-1 (7 Acceptance requirements for test pieces)*					-	-	*The sum of the greatest discontinuities exceeding 1 mm. but less than 3 mm. In any one bend specimen shall not exceed 10 mm.

Notes:
1. Testing and analytical results are only valid for the specimen tested.
2. This report is not a certificate of the product quality.
3. *Reference to standard ISO 9606-1:2012 Qualification testing of welders — Fusion welding — Part 1: Steels

Reported by:

Chayut SIAHOUN
Mechanical Engineer

Reviewed by:

Wuttichai TUNKOOL
Head of Mechanical Laboratory

Approved by:

Kittisak JIRASUTSOONTHORN
Material Testing & Expertise Manager

Information contained in this IS Industrie (Thailand) Ltd. report are in accordance with its general conditions of sale and utilized under the responsibility of the customer. The partial reproduction of modification of this test report forbidden. In case of dispute the valid copy is kept in the IS Industrie (Thailand) Ltd.

IS Industrie (Thailand) Ltd.
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Fax : +66 2 136 6937-8
Email : contact.th@isgroupe.com
Website : www.is-industrie.co.th

Appendix

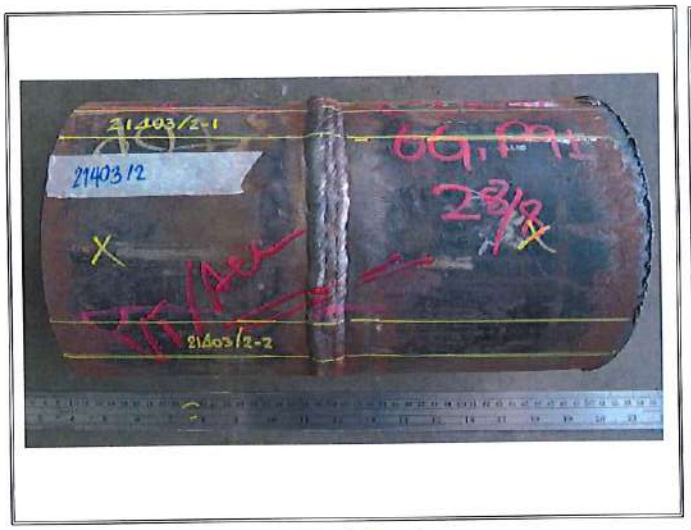

Fig.1 Location

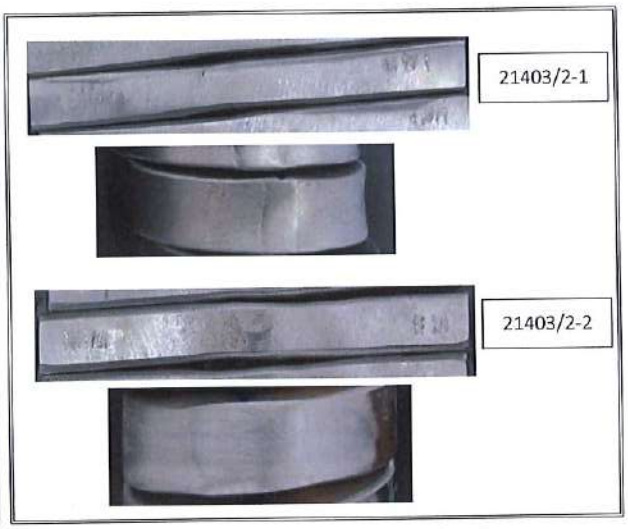

Fig.2 Specimen Before and after test

-End of Report-

Information contained in this IS Industrie (Thailand) Ltd. report are in accordance with its general conditions of sale and utilized under the responsibility of the customer.
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IS Industrie (Thailand) Ltd.
777/32 Moo.9, Bang-Pla,
Bang-Phli, Samutprakarn 10540 Thailand

Tel : +66 2 136 6933-6
Fax : +66 2 136 6937-8
Email : contact.th@isgroupe.com
Website : www.is-industrie.co.th

Test Report

Bend Testing

Customer Name	: Chemo Aharon Energy Infrastructures Co., Ltd.
Project Name	: Israel Pipe Line Project
WPS No.	: WPS 701
Material Grade	: ASTM-A106 Gr.B
Material Characteristic	: Pipe NPS 2" Thickness 5.54 mm.
Welder Name	: Mr. EKKALAK PON-AR-SA
Welder ID.	: WD02
Welding process / Position	: GTAW / 6G
Filler Metal	: ER90S-B9

Report n°.	: MECH-BEN21-013
IS Transaction n°.	: IS/B-21-09-0654
Customer ref. n°	:
MAT job n°	: 21403/10
Test date	: 09/09/2021
Report date	: 10/09/2021

Standard of Test	: ISO 5173:2021 Destructive tests on welds in metallic materials – Bend tests
Specimen Preparation	: Face and Root Bend Specimens
Method of Test	: Bend Test
Equipment / Serial No.	: DRW. No.0201
Ambient temperature	: 24.5 °C

Results:

MAT Job No.	Location / Type of Bending	Dimension Specimen (mm.)			Dia. Of Mandrel (mm)	Bending angle	Visual Examination Result
		Thickness	Width	Length			
21403/10-1	Transvers / Root Bend	5.65	19.73	156.79	22	180°	No open discontinuity
21403/10-2	Transvers / Face Bend	5.64	20.11	157.05	22	180°	No open discontinuity
Acceptance Criteria ISO 9606-1 (7 Acceptance requirements for test pieces)*					-	-	*The sum of the greatest discontinuities exceeding 1 mm. but less than 3 mm. In any one bend specimen shall not exceed 10 mm.

Notes:
1. Testing and analytical results are only valid for the specimen tested.
2. This report is not a certificate of the product quality.
3. *Reference to standard ISO 9606-1:2012 Qualification testing of welders — Fusion welding — Part 1: Steels

Reported by:

Chayut SIAHOUN
Mechanical Engineer

Reviewed by:

Wuttichai TUNKOOL
Head of Mechanical Laboratory

Approved by:

Kittisak JIRASUTSOONTHORN
Material Testing & Expertise Manager

Information contained in this IS Industrie (Thailand) Ltd. report are in accordance with its general conditions of sale and utilized under the responsibility of the customer.
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IS Industrie (Thailand) Ltd.
777/32 Moo.9, Bang-Pla,
Bang-Phli, Samutprakarn 10540 Thailand

Tel : +66 2 136 6933-6
Fax : +66 2 136 6937-8
Email : contact.th@isgroupe.com
Website : www.is-industrie.co.th

Appendix

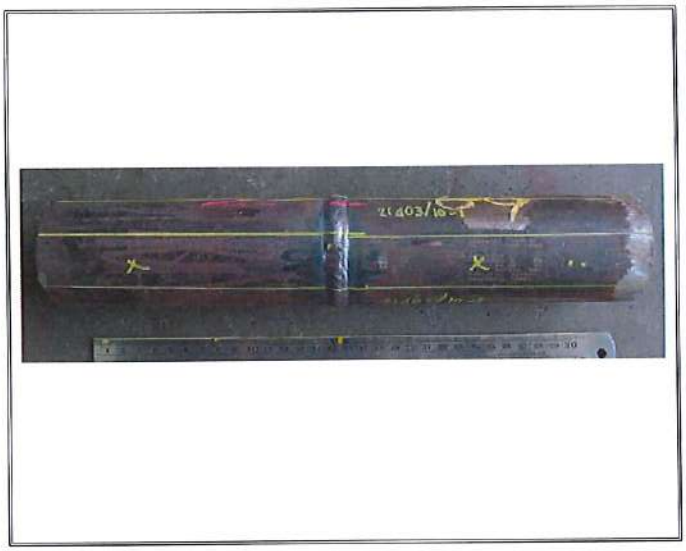

Fig.1 Location



Fig.2 Specimen Before and after test

-End of Report-

Information contained in this IS Industrie (Thailand) Ltd. report are in accordance with its general conditions of sale and utilized under the responsibility of the customer.
The partial reproduction of modification of this test report forbidden. In case of dispute the valid copy is kept in the IS Industrie (Thailand) Ltd.


บัตรประจำตัวประชาชน Thai National ID Card
เลขประจำตัวประชาชน
Identification Number
3 6498 00121 41 1
ชื่อตัวและชื่อสกุล นาย เอกลักษณ์ พลอาสา
Name Mr. Ekkalak
Last name Pon-ar-sa
เกิดวันที่ 13 มิ.ย. 2525
Date of Birth 13 Jun. 1982
ศาสนา พุทธ
ที่อยู่ 99/6 หมู่ที่ 4 ต.ฝายหวาง
อ.ลับแล จ.อุตรดิตถ์
31 ม.ค. 2562
วันออกบัตร
31 Jan. 2019
Date of Issue
(ชาติศัย บุษยะโสภัต)
เจ้าพนักงานออกบัตร
12 มิ.ย. 2570
วันบัตรหมดอายุ
12 Jun. 2027
Date of Expiry
5308-04-01311332


BORA-10.5-05-2561
ประเทศไทย
THAILAND
ME1-1281565-94

รายการเกี่ยวกับบ้าน

เล่มที่ 1

เลขรหัสประจำบ้าน 5308-007035-6 สำนักทะเบียน อำเภอลับแล

รายการที่อยู่ 30 หมู่ที่ 1
ตำบลฝายหลวง อำเภอลับแล จังหวัดอุตรดิตถ์

ชื่อหมู่บ้าน ชื่อบ้าน

ประเภทบ้าน บ้าน ลักษณะบ้าน

วันเดือนปีที่กำหนดบ้านเลขที่

ลงชื่อ นายทะเบียน
(นายจักรวุธ สนธิศักดิ์วรรณะ)

วันเดือนปีที่พิมพ์ทะเบียนบ้าน 21 สิงหาคม 2547

1

เล่มที่ 1 รายการบุคคลในบ้านของเลขรหัสประจำบ้าน 5308-007035-6 ย้ายปลายทาง ลำดับที่ 8

ชื่อ นายเอกลักษณ์ ผลอาสา สัญชาติ ไทย เพศ ชาย

เลขประจำตัวประชาชน 3-6498-00121-41-1 สถานภาพ ผู้อาศัย เกิดเมื่อ 13 มิ.ย. 2525

มารดาผู้ให้กำเนิด ชื่อ ประนอม 3-6498-00121-40-3 สัญชาติ ไทย

บิดาผู้ให้กำเนิด ชื่อ หลิม 3-6498-00121-35-7 สัญชาติ ไทย

* มาจาก
9672 หมู่ที่ 6 ต.นาสาง
อ.สิชัย จ.อุตรดิตถ์ เมื่อ 8 มี.ค. 2560

นายทะเบียน
(นายจักรกฤษณ์ เกษศรี)

** ไปที่ นายทะเบียน

9

จ [redacted] บ 540227

เอกสารฉบับนี้ ตรวจสอบความถูกต้อง
ได้ที่ หน่วยบัญชาการกำลังสำรอง
ถนนเจริญกรุง เขตพระนคร
กรุงเทพมหานคร ๑๐๒๐๐

(แบบ สด.๔๓)

ฉบับที่ ๒๗ เลขที่หมายเรียก ๗/๔๕

ใบรับรองผล

การตรวจเลือกทหารกองเกินเข้ารับราชการทหารกองประจำการ พ.ศ. ๒๕๔๖

๑. **หลักฐานเกี่ยวกับประวัติบุคคล.**

๑.๑ ชื่อ นายเอกลักษณ์ ชื่อสกุล พลอเล่า

๑.๒ ภูมิลำเนาทหารตำบล ลานกระบือ

อำเภอ ลานกระบือ จังหวัด กำแพงเพชร

๑.๓ บัตรประจำตัวประชาชนหมายเลข

เลขประจำตัวประชาชน ๓ ๖๔๙๘ ๐๐๑๒๑ ๔๑๑

๒. **ผลการตรวจเลือก**

๒.๑ กรรมการซึ่งเป็นผู้ประกอบโรคศิลปะแผนปัจจุบันฯ ผู้ตรวจร่างกายเห็นว่า

ควรเป็นคนจำพวกที่ ๑

(ลายมือชื่อผู้ตรวจร่างกาย) รอ. อ.ม. พ.ญ.

๒.๒ ขนาดสูง ๑๗๐ ซม. ขนาดรอบตัว ๔๔/๔๗ ซม.

(ลายมือชื่อกรรมการนายทหารสัญญาบัตร) รอ.

๒.๓ คณะกรรมการตรวจเลือกกำหนดเป็นคนจำพวกที่ ๑

(ลายมือชื่อกรรมการสัสดีจังหวัด) พ.ท.

๒.๔ ผลการจับสลาก

(ลายมือชื่อกรรมการสัสดีจังหวัด) พท.

(ลายมือทหารกองเกิน) หรือ (ลายพิมพ์นิ้วมือ)

๓. **บันทึกอื่น ๆ**

ขอรับรองว่าถูกต้อง

พ.ท. ประธานกรรมการ

ร.ท. กรรมการ

รอ. กรรมการ

รอ. กรรมการ

กรรมการ

พท. กรรมการ

กรรมการ

(ท่อนที่ ๓ สำหรับทหารกองเกิน)

453026

ระเบียนแสดงผลการเรียนการศึกษานอกโรงเรียน
ระดับมัธยมศึกษาตอนปลาย

รย. 2

รหัสประจำตัว 3606-4313-0069-6

ชื่อ นายเอกลักษณ์ พลอาสา

เกิดวันที่ 13 เดือน มิถุนายน พ.ศ. 2525

สัญชาติ ไทย

ชื่อบิดา นายหลิม พลอาสา

ชื่อมารดา นางประนอม พลอาสา

เข้าเรียนเมื่อภาคเรียนที่ 1 ปีการศึกษา 2543

สถานศึกษา

ศูนย์บริการการศึกษานอกโรงเรียนอำเภอพรหมพิราม

เขต/อำเภอ พรหมพิราม

จังหวัด พิษณุโลก

สถานศึกษาเดิม โรงเรียนลานกระบือวิทยา

จังหวัด กำแพงเพชร

วุฒิเดิม ม.3

หมวดวิชาบังคับ	รหัสวิชา	วิธีเรียน	หน่วยการเรียน	ผลการเรียน
ภาคเรียนที่ 1 ปีการศึกษา 2543				
เกษตรกรรม	AG30	ทก.	12	2
วิทยาศาสตร์ 1	SC31	ทก.	6	1
ภาษาไทย 1	TH31	ทก.	6	2
ภาคเรียนที่ 2 ปีการศึกษา 2543				
พลานามัย	PE30	ทก.	6	3
ภาคเรียนที่ 1 ปีการศึกษา 2544				
สังคมศึกษา 1	SO31	ทก.	6	2

หมวดวิชาเลือก	รหัสวิชา	วิธีเรียน	หน่วยการเรียน	ผลการเรียน
ภาคเรียนที่ 2 ปีการศึกษา 2543				
สังคมศึกษา 2	SO32	ทก.	13	2
ภาษาไทย 2	TH32	ทก.	13	2
ภาคเรียนที่ 1 ปีการศึกษา 2544				
คณิตศาสตร์	MA30	ทก.	13	1

ผ่านกิจกรรมการพบกลุ่มเพื่อการพัฒนาคุณภาพชีวิต 48 หน่วยกิจกรรม

สรุปผลการเรียน

รวมหมวดวิชาบังคับ	5	หมวด
รวมหมวดวิชาเลือก	3	หมวด
รวมหน่วยการเรียน	75	หน่วย
ระดับผลการเรียนเฉลี่ย	1.82	
วันอนุมัติการจบหลักสูตร	5 มีนาคม 2545	
ออกเมื่อวันที่	5 มีนาคม 2545	
เหตุที่ออก	จบหลักสูตรมัธยมศึกษาตอนปลาย	

(นางนัยนา วิเชียรโรจน์)

นายทะเบียน

(นายกล้า งามวิลาศ)

ตำแหน่ง ผู้อำนวยการศูนย์บริการการศึกษานอกโรงเรียนอำเภอพรหมพิราม

วันที่ 17 เดือน เม.ย. พ.ศ. 2545



คำชี้แจง

1. เทียบโอนวิชาอาชีพจาก
2. เทียบโอนผลการเรียนจากหลักสูตร

บริษัท ซิโน-ไทย เอ็นจีเนียริ่ง แอนด์ คอนสตรัคชั่น จำกัด (มหาชน)
Sino-Thai Engineering & Construction Public Company Limited

November 25, 2005

TO WHOM IT MAY CONCERN

This letter serves as a certification that **Mr.Ek-kalak Ponaesa** worked with our company as **Fitter** since **January 11,2005** to **November 12, 2005** for Indorama PTA Project. (J.2270-0-C) Map Ta Phut Industrial, Rayong

During the period of association with him, his performance is very satisfactory. We also thank he services while him worked for the company.

Reason for the termination of employment is voluntary resignment.



Faithfully yours,

Mr. Pitan Maiprasert

Project Manager

ชั้น 27 ซิโน-ไทย ทาวเวอร์ 32/59-60 ถนนสุขุมวิท 21 กรุงเทพ 10110
27th Fl., Sino-Thai Tower, 32/59-60 Sukhumvit 21 Rd., Bangkok 10110 THAILAND
Tel: 0-2260-1321 Fax: 0-2260-1339

www.stecon.co.th

Thai Woo Ree Engineering Co.,Ltd.
23/3 Nongwa Rd., Tambol Huaypong
Amphur Muangrayong,Rayong 21150 Thailand
Tel. : 66 (0) 3868 2925 ~ 6
Fax. : 66 (0) 3868 2553

SK Engineering & Construction
Affiliated Company of
SK Engineering & Construction

February 21′ 2006

CERTIFICATE OF EMPLOYMENT

TO WHOM IT MAY CONCERN :

We are pleased to issued this certificate to **Mr.Akaluk Phonarsa** who has been engaged with the employment of our company, Thai Woo Ree Engineering Co.,Ltd. for Feed Fractionation Revamp & Cyclohexane Project (FRC Project) at Map Ta Phut Rayong Province which the client was The Aromatics (Thailand) Public Company Limited.

NAME	:	**Mr.Akaluk Phonarsa**
POSITION	:	Fitter A
I.D. NUMBER	:	3-6498-00121-41-1
WORK PERIOD	:	November 15′ 2005 ~ March 14′ 2006

Of course, I would like to take this opportunity to thank of his performance while he worked with us and wish him a successfully of his life in the future.



Yours truly,

Mr.Wichai Imcharoen
HR & Admin Manager

SNC·LAVALIN
International

SNC-Lavalin International inc.
18, rue Mustapha Khaled
Ben Aknoun, Alger
Téléphone (213.21) 91.17.50
Télécopieur (213.21) 91.17.58

N°2524/DRH/RNS/2012

CERTIFICAT DE TRAVAIL

Nous soussignés, SNC-LAVALIN-International, Projet Rhoude Nouss, Illizi, certifions que :

Monsieur : **EKKALAK PON AR SA**

Né le 13/06/1982 à **Sukhothai**

A été employé dans nos services en qualité du : **Soudeur.**

Du 07/07/2011 au 30/06/2012

Et nous quitte libre de tout engagement.

Le présent certificat est délivré à l'intéressé(e) en un seul et unique exemplaire pour servir et faire valoir ce que de droit.

Fait à Rhourde Nouss le : 28/06/2012

SNC LAVALIN INTERNATIONAL

Le Directeur

HANY MIKHAIL

RECORD OF WELDER/WELDING OPERATOR QUALIFICATION TEST(WQT)

Welder/welding Operator Name Mr. Kkkalak P. **Welder No:** 0156 **WQT Date:** 19-Jun-12

Company Name: PTT Maintenance & Engineering Co.,Ltd.

Welding Process: GTAW/SMAW

Base Materials(s) Welded: A 106 Gr B **Thickness:** 5.45 mm



Manual or Semiautomatic Variables for Each Process(QW-35

Inaccordance With Welding Procedure Specification(WPS) ER90S-B9 (P5B to P5B)

VARIABLE	ACTUAL VALUES	QUALIFICATION
Welding Process:	GTAW/SMAW	GTAW/SMAW
Type:	Manual	Manual
Backing(QW-402):	NO	NO
Materials P No(S)1 to P No:	1	5B 1
Welding Position (QW-405):	6G	
☐ Plate ☑ Pipe(Enter diameter)	6"	Groove Pipe and Plate Over 24" OD ALL Groove Pipe 2-7/8" OD to Unlimited OD ALL Fillet Plate and Pipe ALL
☑ Groove ☐ Fillet		
Welding Deposit Thickness:	5.45 mm	21.84 mm max
Rang Qualified:		
Spec (SFA):	5.9	5.9
Filler Metals Classification:	ER90S-B9	ER90S-B9
F-Number:	6	6
Welding Progression:	UPHILL	UPHILL
Backing Gas(QW-408):	YES	YES
Transfer Mode (QW-409):		
Welding Current Type/Polarity:	DC/SP	DC/SP
Matchine Welding Variables for the process Used (QW360)		
Direct/Remote Visual Control:	N/A	N/A
GTAW Autometic Voltage Control:	N/A	N/A
GMAW Consumable Control:	N/A	N/A
Automatic Joint Tracting:	N/A	N/A
Other:	N/A	N/A

GUIDE BEND TESTING RESULTS QW-150QW-160(a)QW-170(b)

Type and Figure No.	Result
N/A	N/A

Visual Examination results(QW-302.4): Acceptable

Radiographic test results (QW-304QW-305) for alternative qualification of grove welds by radiography

Radiography Results ☑ Acceptable ☐ Unaceptable **Report No:** H-TECH-RT-S-373/06

Test Conducted By: H-tech **Laboratory Test No:** NA

We certify that statements in this record are correct and that the test welds were prepared welded and tested in accordance with the requirement of sextion IX of the ASME Code.

ptt ME **Inspector** ptt ME QA/QC Inspection **Date :** 19 Jun. 2012

TDE
ThermoDesign



June 22, 2015

To Whom It May Concern:

RE: Ekkalak Pon-Ar-Sa

Thermo Design Engineering had employed Ekkalak Pon-Ar-Sa from September 15, 2014 till June 9, 2015. Ekkalak held the full time position of Journeyman Welder. During his term of employment he completed his work satisfactorily and his attendance record was good. We would recommend Ekkalak to any prospective employer that is looking for a Journeyman Welder.

If you require any further information please feel free to contact me at 780-440-6064.

Yours truly,
THERMO DESIGN ENGINEERING LTD.

Bob Maters
Human Resources Manager

Bob Maters
THERMO DESIGN ENGINEERING LTD.
POST OFFICE BOX 5557 SECSE
EDMONTON, ALBERTA, CANADA T6E 6P8
1424 - 70 AVENUE
EDMONTON, ALBERTA, CANADA T6P 1P5

Certificate for best test score.

Ekkalak Pon-ar-sa

Has completed the English Conversation and Canadian Culture Course
and got top points of 91.5 %

Congratulations!



23th July 2014

Suparat Keawpradub (English House Director)

ห้างหุ้นส่วนจำกัด เอส.เค.พี (2015) เอ็นจิเนียริ่ง
S.K.P (2015) ENGINEERING LIMITED PARTNERSHIP
TEL:086-0584846,092-4099326,089-0492685
570/335 หมู่ 3 ตำบลมะขามคู่ อำเภอนิคมพัฒนา จังหวัดระยอง 21180

24-Feb-16

CERTIFICATE

Name ; **EKKALAK PONARSA**

POSITION ; **WELDER FOREMAN**

PROJECT ; **C-31501 PITOBEAS- FPSO- TUPI (BARZIL)**

PERIOD ; **1 AUS 2015 - 15 FEB 2016**

This is to certify that Mr. EKKALAK PONARSA a Thai National, holder of Passport No. AA 2442198 has been employed with S.K.P. Engineering Co.Ltd

This certificate is issued upon his future jop employment purposes

Mr. SOMBAT SOMSAMAI
PROJECT MANAGER



Murray & Roberts

Murray & Roberts
Power & Energy
Engineers and Constructors

PERFORMANCE EXCELLENCE AWARDS

Awarded to:

Ekkalak Pon-ar-sa

Employed as

Welder

In recognition of your outstanding performance, valuable efforts and consistent commitment to the Kusile Power Project.

Allard van Dijk
Site Director – Kusile Power Project

06 June 2018

Douglas Roberts Centre
22 Skeen Boulevard
Bedfordview, 2007
P.O. Box 3040
Bedfordview, 2008
South Africa
Tel: + 27 11 456 1000
Fax: + 27 11 455 1264
Email: info.projects@murrob.com
Web: www.projects.murrob.com



K1748

Date: ***February 17th, 2017***

CERTIFICATE OF THE EMPLOYMENT

TO WHOM IT MAY CONCERN

Dear Sir,

This certificate is to certify that ***MR. Ekarak Pon-Ar-sa*** *with holding passport number* ***AA 2442198***

He was employed by Murray & Roberts Power & Energy (MRPE) and work assigned as ***"A" CLASS WELDER*** *for KUSILE Power Station Project, to perform welding on Boiler tubes and interconnecting pipes, heavy wall pipes (H.P.) with various piping material like, carbon steel, alloy P22, P91 etc.*

The MRPE have responsible to construction 6 units of coal-fired boilers with total capacity about 800 Megawatts for each unit, and KUSILE Power Station was located in Witbank town Mpumalanga province, South Africa.

The employment period was started from ***25th August 2016 until 19th February2017***

He had proved to be good and hardworking employee, good efficiency and diligent in his assigned duties and responsibilities, he has also given to the Company a satisfaction towards his performances.

We would without hesitate to recommend ***MR. CHANAI SUEBSAO*** *any further employer to hire in a similar or equivalent position and he would be a good asset to any Companies.*

Yours faithfully,

Hannes Hattingh
Welding Manager
KUSILE Power Station Project
Murray & Roberts Project
www.projects.murrob.com

Douglas Roberts Centre
22 Skeen Boulevard
Bedfordview, 2007
P.O. Box 3040
Bedfordview, 2008
South Africa
Tel: + 27 11 456 1000
Fax: + 27 11 455 1264
Email: info.projects@murrob.com
Web: www.projects.murrob.com



Employee number: K1748

Date 31 May 2018

CERTIFICATE OF THE EMPLOYMENT

TO WHOM IT MAY CONCERN

This certificate is to certify that ***MR. Ekkalak Pon-Ar-Sa*** *with holding passport number* ***AA 2442198***
He was employed by Murray & Roberts Power & Energy (MRPE) and work assigned as ***A-Class Welder*** *for KUSILE Power Station Project, to perform Welding activities for Boiler wall panels and Steel structure component of pressure parts system.*

The MRPE have responsible to construction 6 units of coal-fired boilers with total capacity about 800 Megawatts for each unit, and KUSILE Power Station was located in Witbank town Mpumalanga province, South Africa.

The employment period was started
Kusile Project from 27 August 2016 ***until*** *31 May 2018*

He had proved to be good and hardworking employee, good efficiency and diligent in his assigned duties and responsibilities, he has also given to the Company a satisfaction towards his performances.

We would without hesitate to recommend ***MR. Ekkalak Pon-Ar-Sa*** *any further employer to hire in a similar or equivalent position and he would be a good asset to any Companies.*

Yours faithfully,

Mr. Pieter Williams
Snr.Construction Manager – Pressure parts Department
Kusile Power Station Project

Murray & Roberts Power & Energy
A trading division of Murray & Roberts Limited
Divisional Directors: ST Harrison[1] (Managing Director) AP Plantema

Murray & Roberts Limited Registration No. 1979/003324/06
Directors: HJ Laas (Chairman & Managing Director) PK Bennett[2] AJ Bester O Fenn[1] JN Govender ST Harrison[1] IW Henstock WT Mdluli
Secretary: L Kok

[1]British [2]Australian

DAEAH E&C
Engineering & Construction Co., Ltd.

Reference No.: D-AL-ZOUR-167

CERTIFICATION

Name	: EKKALAK PON-AR-SA
Employee Number	: HEC-20736
Nationality	: THAILAND
Job Trade	: TIG WELDER
Passport Number	: AA9798502
Employment Date	: FEBRUARY 16, 2020 to SEPTEMBER 19, 2020

To Whom It May Concern:

This is to certify that MR. EKKALAK PON-AR-SA a THAILAND national and a passport holder of AA9798502, has been employed at **DAEAH Engineering and Construction Co**

This certification is issued upon the request of the above mentioned name for any legal purpose it may serve.

Issued on SEPTEMBER 19, 2020 at DAEAH E & C Al-Zour LNG Import Project, Al-Zour, Kuwait, City.

Company Seal:

شركة دايا للهندسة والإنشاءات ★ DAEAH ENGINEERING & CONSTRUCTION CO. LTD. ★

MR. HANSOL LEE
Administrator
DAEAH Engineering and Construction. Co. Ltd.

KIPIC
البترولية المتكاملة

HYUNDAI
ENGINEERING & CONSTRUCTION

BJC HEAVY INDUSTRIES PUBLIC COMPANY LIMITED

WELDER PERFORMANCE QUALIFICATION (WPQ)



Welder's Name: Mr.Ekkalak P. Identification No.: BJC-W-1569

Test Description

Identification of WPS followed: BJC-GS-11A/11A-247 ☑ Test coupon ☐ Production weld

Specification and type/grade or UNS Number of base metal(s): API 5L Gr.B to API 5L Gr.B Thickness: 18.26 mm.

Testing Conditions and Qualification Limits

Welding Variables (QW-350)	Actual Values	Range Qualified
Welding Process(es)	GTAW + SMAW	GTAW + SMAW
Type (i.e; manual, semi-automatic) used	Manual	Manual
Backing (with/without)	Without + With	With & Without + With
☐ Plate ☑ Pipe (enter diameter if pipe or tube)	Ø 6" SCH.160	Plate & Pipe O.D.73 mm. and over
Base metal P- or S- Number to P- or S- Number	P1 + P1	See Note 1
Filler metal or electrode specification(s) (SFA) (info. Only)	5.14 + 5.11	
Filler metal or electrode classification(s) (info. Only)	ERNiCrMo-3 + ENiCrMo-3	
Filler metal F-Number(s)	43 + 43	43 + 43
Consumable insert (GTAW or PAW)	With	With
Filler Metal Product form (solid/metal or flux cored/powder) (GTAW or PAW)	Solid wire	Solid wire
Deposit thickness for each process		
Process 1: GTAW 3 layers minimun ☐ Yes ☑ No	4.00 mm.	8.00 mm. (Max.)
Process 2: SMAW 3 layers minimun ☑ Yes ☐ No	14.26 mm.	Unlimited
Position qualified (2G, 6G, 3F, etc.)	6G	All
Vertical progression (uphill or downhill)	Uphill	Uphill
Type of fuel gas (OFW)	N/A	N/A
Inert gas backing (GTAW, PAW, GMAW)	With	With
Transfer mode (spray/globular or pulse to short circuit-GMAW)	N/A	N/A
GTAW current type/polarity (AC, DCEP, DCEN)	DCEN	DCEN

RESULTS

Visual Examination of Completed Weld (QW-302.4): Accepted

☐ Transverse face and root bends [QW-462.3(a)] ☐ Longitudinal bends [QW-462.3(b)] ☐ Side bends (QW-462.2)

☐ Pipe bend specimen, corrosion-resistant weld metal overlay [QW-462.5(c)] ☐ Plate bend specimen, corrosion-resistant weld metal overlay [QW-462.5(d)]

☐ Pipe specimen, Macro test for fusion [QW-462.5(b)] ☐ Plate specimen, Macro test for fusion [QW-462.5(e)]

Type	Result	Type	Result	Type	Result

Alternative radiographic examination results (QW-191): Accept Report No. RT-BJC-TUPI-WQT-P-706

Fillet weld - fracture test (QW-181.2): N/A Length and percent of defects: N/A

☐ Fillet welds in plate [QW-462.4(b)] ☐ Fillet welds in pipe [QW-462.4(c)]

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: Mr.Naruebes R. Company: RCI TESTING INSPECTION & CONSULTING COMPANY LIMITED

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

Welding supervised by: Mr. Pongnatee T.

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 : 2013 edition.

	Prepared by CSWIP	Reviewed by QA Manager	Approved by BV Surveyor
Sign	CSWIP PONGNATEE TABCHOO 84535	BJC Reviewed ~~Approved~~ Mr.PHISIT P. QA MANAGER	Reviewed / ~~Inspected~~ / ~~Witnessed~~
Date	12-12-15 WI 3.1	19 DEC 2015	24 DEC 2015 Worarit Chomsri

Note 1: P or S No.1 through P or S No.15F, P or S No.34, P or S No.41 through P or S No.49 and unassingned metals of similar chemical composition.

Extend of expiration date for Welder Performance Qualification

Qualification Type	Qualification Date	Valid from	Expired date	Reference report	Reviewed by	Qualification Type	Qualification Date	Valid from	Expired date	Reference report	Reviewed by

NDT TRAINING CENTER

RADIOGRAPHIC TESTING (RT) REPORT

Report No.:	KTC - RT - WD02
Request No.:	QT - TRA - 056
Date of test:	29 AUGUST 2021
Page:	1 OF 2

CUSTOMER:	CHEMO AHARON ENERGY INFRASTUCTURES COMPANY LIMITED	
PROJECT NAME:	ISRAEL NATURAL PIPE LINE	
ITEM DESCRIPTION:	WELDER QUALIFICATION	
ACCEPTANCE STANDARD:	ASME IX:2010 Rev.00	
PROCEDURE:	NDT - RT - 01	REV.0

EQUIPMENT, MATERIALS & OPERATION PARAMETERS...

RADIATION SOURCE		EXPOSURE & TECHNIQUE		FILM	
X-RAY EQUIP:	P34 GAMMA RAY PROJECTOR	EXPOSURE TIME:	1 MINUTE 20 SEC	BRAND:	AGFA
TUBE VOLTAGE:	N/A	TECHNIQUE:	DWSI	TYPE:	D4
TUBE CURRENT:	N/A	SOD/OFD:	157.03 / 10.97 mm.	SIZE:	3.5"X8.5"
GAMMA RAY TYPE:	IR-192	IQI TYPE/SIZE:	ASTM-1B	INTENSIFYING SCREEN PB	
SOURCESTRENGTH:	29.0 CI	NO OF FILM/ FOLDER:	4/1	FRONT:	0.125 MM.
SOURCE SIZE:	2.50 X 2.50 MM.	% OF EXAM:	100%	BACK:	0.125 MM.
FILM PROCESSING:	☐ AUTO ☒ MANUAL				

PART IDENTIFICATION & INFORMATION...		REINFORCEMENT:	
ISO/DWG NO.:	N/A	DESCRIPTIONS:	PIPE 6"
WPS NO.:	WPS 715	WELDING PROCESS:	GTAW+SMAW (ER90S-B9+E9015-B9)
MATERIAL:	ASTM A106 GR.B	MATERIAL THICKNESS:	10.97 MM.

SYSTEM PERFORMANCE...		REINFORCMENT:	
SENSITIVITY REQUIRED:	ESSENTIAL WIRE NO. 8	DENSITY REQUIRED	2.0-4.0
SENSITIVITY ACHIEVED:	SMALLEST VISIBLE WIRE NO. 7		
SENSITIVITY NORMALLY REQUIRED:	SENSITIVITY 2%		

OPERATOR NAME:

WELD/JOINT/RADIOGRAPH IDENT...			INTERPRETATION				RESULT		REMARK
JOINT/WELD	WELDER NO.	LOCATION	UG	DEFECT SIZE	DENSITY	TYPE DEFECT	ACC	REJ	
MR. EKKALAK PON-AR-SA									
6G	WD02	A-B	1.679	-	2.5-3.0	NAD	ACC	-	
		B-C	1.679	-	2.6-3.0	NAD	ACC	-	
		C-D	1.679	-	2.4-2.9	NAD	ACC	-	
		D-A	1.679	-	2.3-2.9	NAD	ACC	-	

ABBREVIATION:

C: CRACK
IP: INCOMPLETE PENETRATION
SF: SURFACE FLAW
NO: NO RELEVANT INDICATION
TI: TUNGSTEN INCLUSION
OFD: OBJECT TO FILM DISTANCE

CV: CONCAVITY
LF: LACK OF FUSION
SI: SLAG INCLUSIONS
UC: UNDERCUT
E & V: EXPOSURE & VIEWING
NAD: NO APPARENT DEFECT

EP: EXCESS PENETRATION
P: GAS CAVITIES
SL: SLAG LINEAR
CP: CLUSTER POROSITY
SOD: SOURCE TO OBJECT DISTANCE

AUTHORIZATION	INTERPRETER NAME:	REVIEWED/WITNESSED BY :	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:
COMPANY:	NDT TRAINING CENTER CO.,LTD.	NDT TRAINING CENTER CO.,LTD.	KTC SKILLS TESTING CENTER		
SIGNED:					
NAME:	MR. SAKDA S.	MR.PORNCHAI K.	MR. CHANUTH P.		
DATE:	02 September 2021	03 September 2021	03 September 2021		

NDT TRAINING CENTER

RADIOGRAPHIC TESTING (RT) REPORT

Report No.:	KTC - RT - WD02
Request No.:	QT - TRA - 056
Date of test:	29 AUGUST 2021
Page:	2 OF 2

CUSTOMER:	CHEMO AHARON ENERGY INFRASTUCTURES COMPANY LIMITED	
PROJECT NAME:	ISRAEL NATURAL PIPE LINE	
ITEM DESCRIPTION:	WELDER QUALIFICATION	
ACCEPTANCE STANDARD:	ASME IX:2010 Rev.00	
PROCEDURE:	NDT - RT - 01	REV.0

EQUIPMENT, MATERIALS & OPERATION PARAMETERS...

RADIATION SOURCE		EXPOSURE & TECHNIQUE		FILM	
X-RAY EQUIP:	P34 GAMMA RAY PROJECTOR	EXPOSURE TIME:	3 MINUTE 15 SEC	BRAND:	AGFA
TUBE VOLTAGE:	N/A	TECHNIQUE:	DWDI	TYPE:	D4
TUBE CURRENT:	N/A	SOD/OFD:	447.7 / 60.3 MM.	SIZE:	3.5"X8.5"
GAMMA RAY TYPE:	IR-192	IQI TYPE/SIZE:	ASTM-1A	INTENSIFYING SCREEN PB	
SOURCESTRENGTH:	29.0 CI	NO OF FILM/ FOLDER:	2/1	FRONT:	0.125 MM.
SOURCE SIZE:	2.50 X 2.50 MM.	% OF EXAM:	100%	BACK:	0.125 MM.
FILM PROCESSING:	☐ AUTO ☒ MANUAL				

PART IDENTIFICATION & INFORMATION...		REINFORCEMENT:	
ISO/DWG NO.:	N/A	DESCRIPTIONS:	PIPE 2"
WPS NO.:	WPS 701	WELDING PROCESS:	GTAW (ER90S-B9)
MATERIAL:	ASTM A106 GR.B	MATERIAL THICKNESS:	5.54 MM.

SYSTEM PERFORMANCE...		REINFORCMENT:	
SENSITIVITY REQUIRED:	ESSENTIAL WIRE NO. 6	DENSITY REQUIRED	2.0-4.0
SENSITIVITY ACHIEVED:	SMALLEST VISIBLE WIRE NO. 6		
SENSITIVITY NORMALLY REQUIRED:	SENSITIVITY 2%		

OPERATOR NAME:

WELD/JOINT/RADIOGRAPH IDENT...			INTERPRETATION				RESULT		REMARK
JOINT/WELD	WELDER NO.	LOCATION	UG	DEFECT SIZE	DENSITY	TYPE DEFECT	ACC	REJ	
MR. EKKALAK PON-AR-SA									
6G	WD02	A	0.40	-	2.6-2.9	NAD	ACC	-	
		B	0.40	-	2.6-2.9	NAD	ACC	-	

ABBREVIATION:

C: CRACK
IP: INCOMPLETE PENETRATION
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NO: NO RELEVANT INDICATION
TI: TUNGSTEN INCLUSION
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EP: EXCESS PENETRATION
P: GAS CAVITIES
SL: SLAG LINEAR
CP: CLUSTER POROSITY
SOD: SOURCE TO OBJECT DISTANCE

AUTHORIZATION	INTERPRETER NAME	REVIEWED/WITNESSED BY :	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:	REVIEWED/WITNESSED BY:
COMPANY:	NDT TRAINING CENTER CO.,LTD.	NDT TRAINING CENTER CO.,LTD.	KTC SKILLS TESTING CENTER		
SIGNED:					
NAME:	MR. SAKDA S.	MR.PORNCHAI K.	MR. CHANUTH P.		
DATE:	02 September 2021	03 September 2021	03 September 2021		

WELDER INDENTIFICATION CARD



Project Name : PARAX INDIA
Welder No. : WD - 19
Welder Name : Mr. Ekaulk P.
Issued Date : September 16, 2006
Authorized By :
Approved By :

CR AUTHORISED

QA/QC Manager

QUALIFICATION LIMITS

Mat'l	Process	Test Position	Qualification Limits			Certified By
			Position	Thk.	Dia.	
P1	GTAW	6G	ALL	11.08	Pipe OD 1" and over Plate	

SNC·LAVALIN



CPF Rhoud Ennous project QH

Carte d'homologation des soudeurs

Nom : EKKALAK PON-AR-SA

N° D'indentification.: S24

Date de qualification : Voir l'autre coté

Code: ASME IX

Revision: 2

Gamme De Qualification

Procédé	Passe	Métal d'apport	Min Dia	Max Ep	position
WPS001	GTAW/SMAW	ER70S3 / E7018	2 7/8"	36,52	6G
WPS003	GTAW/SMAW	ER90S-B9	5.45	21.84	6G
WPS015	GTAW/SMAW	ER316L/ E316L	2 7/8"	21,94	6G
WPS025	---	---	---	---	---

Préparé par : ELIAS BOUZIANI

Approuvé par QA-QC Manager : Haddad Salah

PTT Maintenance and Engineering Co.,Ltd.

WELDER'S QUALIFICATION CARD



Company Name : PTT Maintenance & Engineering Co.,Ltd.
Welder Name : Mr. Ekkalak P.
Employee No : C 530614
Welder No : 0156
ID No : 3649800121411
Position : Pipe Welder
Certified By : Miss Rungnapa Date: 03-Jan-11
Approved By : Mr.Direk M. Sign:

A/QC Inspection

PERFORMANCE QUALIFICATION RECORD

Welding Process	Size Dia	Wall Thk	Filler Metal	Materials P No	Weld Position
GTAW	1" & Over	11	ER70S-G	P1	ALL
GTAW	1" & Over	11	ERNiCR-3	P43	ALL
GTAW/SMAW	2 7/8" & Over	25	ER70S-G/E7016	P1	ALL
GTAW/SMAW	2 7/8" & Over	25	ER316L-E316-16	P8	ALL
GTAW/SMAW	2 7/8" & Over	25	ER502/E502-16	P5A	ALL
GTAW/SMAW	2 7/8" & Over	25	ER505/ER505-16	P5B	ALL
GTAW	1" & Over	12	ER5356	P23	ALL
GTAW/SMAW	2 7/8" & Over	11	ER90S-B9	P91	ALL

This qualification certificate certified that this welder is approved
b by PTTME and PTTAR to weld within the catagories defined on this gard

CR Industrial Service Co.,Ltd

WELDER QUALIFICATION CERTIFICATE



ASME Section IX (2004)

Issue By

QA/QC Manager

Welder No. : WD-19
Name : Mr.Ekaluk P.
Process : GTAW
Position : All
Thk. Range : 11.08 mm. Max
Backing : With&Without Backing
P.-No. : P-No.1 Through P-No.11
Diameter : Plate / Pipe OD 1" and Over
F-No. : 6
Test Date : September 15, 2006



EVEREST PROJECT

Project No.	D128
Welder No.	KHT.100
Name	Mr. Ekkaluk P.
Age	24 Years
Weld Position	6G

Chief QC. Singnature

TOYO THAI CORPORATION LTD.
BANGKOK, THAILAND

WELDER'S TECHNIQUE QUALIFICATION

CERTIFICATE

Process	P-No.	Max. Thk.	Min. P-size	Date
GTAW+SMAW	1	11.08	2"	27/06/2006

HydraArc

WELDER COMPETENCE CARD

Name	Init	ID No	Stamp No
PON-AR-SA	E	364980 0121 411	CW 4093

TESTED AND ACCEPTED BY:

R. STUART

Declared competant to use a grinder

SEPTEMBER SHUTDOWN 2012

ASSESOR NO AC/07/M00290

Welding Qualifications

WPS	Max Thickness			Min Dia	Size	Renewal Date
	GTAW	SMAW	FCW			
8-8-A-2-1	7.82			[illegible]	[illegible]	[illegible]
1-1-C-2-1	7.82			[illegible]	[illegible]	[illegible]
1-1-AC-21-1	6.22	8		[illegible]	[illegible]	[illegible]
8-8-C-21-2-2	6.22	8		[illegible]	[illegible]	[illegible]

บริษัท โนว์ฮาวทรานสเฟอร์ จำกัด
KNOW-HOW TRANSFER COMPANY LIMITED



PROJECT NAME :	SHUT DOWN
COMPANY NAME :	TCL
WELDER NAME :	MR. AKKARAK P.
ID. NO. :	3 6498 00121 41 1
ISSUED DATE :	14 May 2007

W-204

ISSUED BY : QA/QC

WELDING PROCESS	GTAW	GTAW+SMAW
POSITION	6G	6G
MATERIAL	A 106	A 106
P-NO.	P1To P1	P1To P1
DIAMETER	2" SCH.40	6" SCH.40
THICKNESS	OD>1"	OD>2 7/8"
FILLER METAL	ER 70S-G	ER70S-G+E7016
F-NO.	6	6 , 4
VALID DATE	14-Nov-07	14-Nov-07

HydraArc

SOUTH AFRICA

Surname	Initials	Id no	Stamp
PON-AR-SA	E	V608585	4093

Tested By:

Moderator : J.A. Potgieter

Date: 21-Feb-07 Signature

Tested ASME IX / SP 90-2

PQR	Max Thickness		Size <	Date Expire
	GTAW	SMAW		
8-8-A-2-1	7.82		60.3	21-Aug-07
8-8-AC-21-1	2	4.02	73	21-Aug-07
1-1-AC-21-1	2	Unlimited	73	21-Aug-07
1-1-C-2-1	5.54		21.3	21-Aug-07

S.P.M.

BJC บริษัท บีเจซี แพลนท์ อินดัสเทรียล จำกัด
BJC PLANT INDUSTRIAL CO.,LTD.



Name	เอกลักษณ์ พลอาสา
Position	WELDER
Issue Date	22 ม.ค. 07
Exprily	31 ธ.ค. 07

ผู้ออกบัตร Amorn S.

เงื่อนไข

1. พนักงานต้องแสดงบัตรต่อเจ้าหน้าที่ทุกครั้งที่มีการผ่านเข้า-ออก
2. พนักงานต้องติดบัตรให้เห็นเด่นชัดขณะทำงาน
3. ห้ามปลอมแปลงหรือ แก้ไขบัตร
4. เมื่อบัตรหาย ต้องแจ้งเจ้าหน้าที่ เพื่อขอทำบัตรใหม่ และต้องจ่ายค่าบัตร 20 บาท
5. ต้องคืนบัตรต่อเจ้าหน้าที่เมื่อลาออก

BJC Heavy Industries Public Company Limited

WELDER QUALIFICATION CARD



PRESALT FPSOs	
Welder Name	Mr.Ekkalak P.
Welder ID.	BJC-W-1569
Issue Date	December 12, 2015

BV Surveyor

QA Manager

Qualification Details (ASME Section IX)

Process	F No.	Material Group	Dia.(mm) Range	Thk.(mm) (T) Range	Welding Position
GTAW	43	P1 + P1	O.D. 73 mm.	8 mm(Max)	ALL
SMAW	43	or See Note1.	& Over	Unlimited	
GTAW	43	P1 + P1	O.D. 25 mm.	17.48 mm.	ALL
		or See Note1.	& Over	(Max)	

Note 1: P1-P15F ,P34, P41-P49

BJC WELDER IDENTIFICATION CARD

Project Name :
Welder No. : BJC-W-508
Welder Name : Mr. Ekkalak Phonasa
Issued Date : January 16, 2007
Authorized By : Mr. Narin S.



QA/QC ENGINEER

Qualification Limits

Mat'l	Process	Test Position	Qualification Limits			Certified By
			Position	Thk.	Dia.	
P1	GTAW / SMAW	6G	ALL	8.00 mm./ 13.94 mm.	Pipe Ø 2-7/8" O.D.& over	

BJC WELDER IDENTIFICATION CARD

Project Name : APLNG Up-Stream Project Phase 1
Welder No. : BJC-W-1569
Welder Name : Mr. Ekkalak B.
Issued Date : 23-Oct-12
Authorized By : Mr. Chutchawan Ch.
Application Code : ASME SECTION IX



QA/QC MANAGER

Qualification Limits

Tested						Qualification Limits						Certified By
Mat'l No.	Process	F. No.	A. No.	Position	Test Coupon	P. or S. No.	F. No.	A. No.	Position	Thk. (mm)	Dia.	
P1 + P1	GTAW	6	1	6G	Ø 2" Sch 160	1~15F, 34, 41~49	6	1	ALL	17.48	Plate & Pipe O.D 25 mm. OD and Over	Chutchawan Ch.
P1 + P1	GTAW	6	1	6G	Ø 6" Sch 160	1~15F, 34, 41~49	6	1	ALL	10	Plate & Pipe O.D 73 mm. OD and Over	
	SMAW	4	1				43,23			All		

Welder Certification Card

NFCT BIGGAS — cpp — Tech vice



Project name	NFCT FUEL TANK FARM
Welder No.	WD-ISBL-006
Welder Name	Mr. Ekkalak P.
Certified by (CPP)	Date
Certified by (NFCT)	Date

NFCT COMPANY LIMITED

WPS No.	TSHI-WPS-CS-001	TSHI-WPS-CS-002		
Applicable Code	ASME IX	ASME IX		
Material	SA106 Gr.B	SA106 Gr.B		
P No.	1	1		
Process	GTAW	GTAW+SMAW		
Position	6G	6G		
Thickness Range	7.82 Max	14.22 Max		
Filler Metal	ER 70S-6	ER 70S-6		
		E7016		
Diameter Range	Ø25 and Over	Ø73 and Over		

SNC-LAVALIN



Installation traitement de gaz,

Carte d'homologation des soudeurs.

Nom: EKKALAK PON -AR-SA

N°D'identification: S24

Date de qualification: Voir l'autre coté

Code: ASSME IX,B31.3,B31.1,B31.8/API 1104

Revision: 1

WPS015/020/022/023/025

Gamme De Qualification

Procédé	Métal de base	Métal d'apport	Min Dia	Max Ep	Position
GTAW/SMAW	P10-P10	F6/F5	2 7/8"	11,39mm	6G
GTAW SMAW	P10-P8	F6/F5	2 7/8"	11,8mm	
GTAW/SMAW	P10H-P10H	F6/F5	2 7/8"	9,6mm	6G
GTAW	P10H/P10H	F6/F5	2 7/8"	5,02mm	6G
SMAW GTAW	P10H/P10H	F6/F5	2 7/8"	37,5mm	

Préparé par:	Approuvé par QA-QCManager
Khroufa rabah	Haddad salah

ptt ME

PTT Maintenance and Engineering Co.,Ltd.

WELDER'S QUALIFIECATION CARD

Company Name	:	PTT Maintenance & Engineering Co.,Ltd.
Welder Name	:	Mr. Ekkalak P.
Employee No	:	C 530614
Welder No	:	0156
ID No	:	3649800121411
Position	:	Pipe Welder
Certified By	:	Miss Rungnapa Date: 03-Jan-11
Approved By	:	Mr.Direk M. Sign:



ME A/QC Inspection

PERFORMANCE QUALIFICATION RECORD

Welding Process	Size Dia	Wall Thk	Filler Metal	Materials P No	Weld Position
GTAW	1" & Over	11	ER70S-G	P1	ALL
GTAW	1" & Over	11	ERNICR-3	P43	ALL
GTAW/SMAW	2 7/8" & Over	25	ER70S-G/E7016	P1	ALL
GTAW/SMAW	2 7/8" & Over	25	ER316L-E316-16	P8	ALL
GTAW/SMAW	2 7/8" & Over	25	ER502/E502-16	P5A	ALL
GTAW/SMAW	2 7/8" & Over	25	ER505/ER505-16	P5B	ALL
GTAW	1" & Over	12	ER5356	P23	ALL
GTAW/SMAW	2 7/8" & Over	11	ER90S-B9	P91	ALL

ME A/QC Inspection

This qualification certificate certified that this welder is approved

b by PTTME and PTTAR to weld within the catagories defined on this gard

Qualification Details

Name Chan In. ID No. S-KPP-057

Expire Date : 30/7/2015

Process	Mat'I	Electordes	Range		position	Date Qualified
			Thk.	Dia		
GTAW	P1+P1	ER-70S-G	11.08	>1"	ALL	31/7/1

S-CON

WELDER IDENTITY CARD

THERMAX

Porject : Thip KPP Sugar

2x150 TPH Bagasse Fired Boiler



ID No S-KPP-057

Name Mr.Ekkalak P.

Date 30/7/2014

This is to certify that the above person is qualified in accordance with the applicable Codes & Standards

S-con eng.

Thermax

Gamme De Qualification

Procédé	Métal de base	Métal d'apport	Min Dia	Max Ep	position
SMAW	P1	---	---	---	---
	P1	---	---	---	---
	P8	F5	2 7/8"	15,54	6G
	P10H	---	---	---	---
GTAW	P8	F6	2 7/8"	6,4 mm	6G
	P8	---	---	---	---
	P10H	---	---	---	---
Préparé par :		Approuvé par QA-QC Manager			
MENADI MOHAMED NADJIB		Haddad Salah			

SNC·LAVALIN

CPF Rhourd Ennous project QH



Carte d'homologation des soudeurs.

Nom:EKKALAK PON-AR-SA

N° D'indentification.: **S24**

Date de qualification : Voir l'autre coté

Code: ASME IX

Revision: 0

This Welder has Qualified as the Followings			
WELDING PROCESS	GTAW		
TEST POSITION	6G		
POSITION QUALIFY	All		
BACKING	With or With out		
MATERIAL	P1-P15F,P34,P41-P49		
DIAMETER	1" O.D. and Over		
THICKNESS (Max.)	11.08 mm		
P NO.	6		
VALID DATE	1 Aug 15		

EGCO GROUP

Mitsubishi Corporation

STECON

KHANOM 2x488.5 MW POWER PLANT PROJECT

WELDER QUALIFICATION CERTIFICATE



NAME Mr.Ekkalak Ponarsa

WELDER NO. WP-098

QUALITIFICATION Pipe Welder

ASME IX

ISSUE BY Sino-Thai Engineering & Construction Public CO.,LTD

APPROVE BY Mitsubishi Corporation

SIGNATURE

Qualification Details

Process	Code	Material Group	Dia.(mm) Range	Thk.(mm) Range	Welding Position
GTAW	ASME-IX	P1-15F,P34, P41-P49	OD. ≥ 25	11.08 (max.)	F,H,V,OH
GTAW+ SMAW	ASME-IX	P1-15F,P34, P41-P49	OD. ≥ 73	6.0(max.) 8.22(max.)	F,H,V,OH

BJC Heavy Industries Public Company Limited

WELDER QUALIFICATION CARD

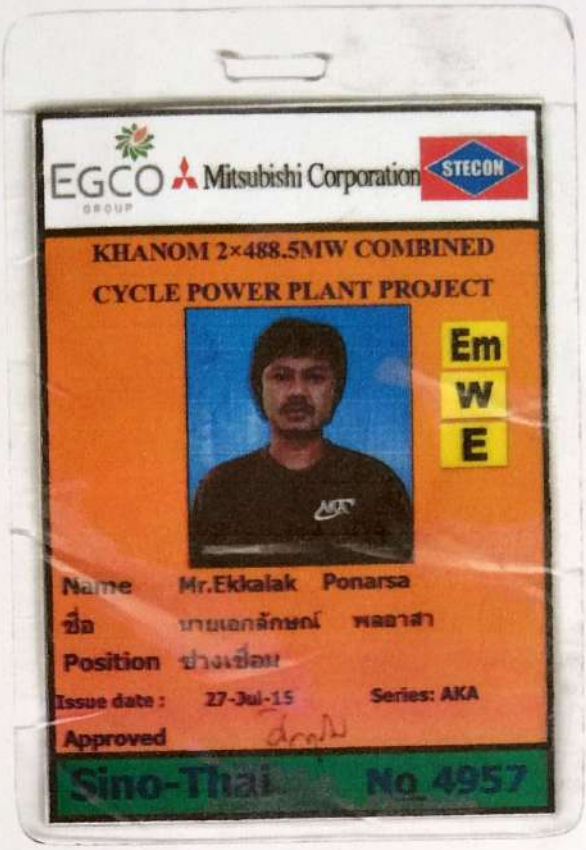


SANTOS GLNG	
Welder Name	Mr.Ekkalak Pon-ar-sa
Welder ID.	BJC-W-1569
Issue Date	February 23, 2019

Client

QA/QC Manager


BJC
BJC HEAVY INDUSTRIES
PUBLIC COMPANY LIMITED
NAME: เอกลักษณ์ พลอาสา
EMP.NO.: SKP240
POSITION: Welder


EGCO GROUP
Mitsubishi Corporation
STECON
KHANOM 2×488.5MW COMBINED
CYCLE POWER PLANT PROJECT
Em
W
E
Name Mr.Ekkalak Ponarsa
ชื่อ นายเอกลักษณ์ พลอาสา
Position ช่างเชื่อม
Issue date : 27-Jul-15
Series: AKA
Approved
Sino-Thai
No 4957


INSTALLATION DE TRAITEMENT DE GAZ
DES CHAMPS RHOURDE NOUSS
PROJET RHOURDE NOUSS
SNC LAVALIN
International Inc
CARTE PROFESSIONNELLE
Nom : EKKALEK
Prénom : PON AR SA
Fonction : Soudeur
GS:
SNC LAVALIN MAGHREB PROJET RHOURDE NOUSS N° 020581


Murray
& Roberts
Surname: Ekkalak
First Name(s): Pon-Ar-Sa
ID Number: AA2442198
Occupation: Skilled Welder
Kusile Power Projec


Eskom
Ekkalak
Pon-ar-sa
MRPE
Hitachi
2018/01/09
Kusile Power Station Project
63952


BJC Since 1994
www.bjc1994.com
Sub Contractor
ชื่อ -สกุล เอกลักษณ์ พลอาสา
POSITION WELDER
ID No. WD - 0016

Bangchak Corporation PLC
Welder Identification Card



Welder's Name
Mr. Ekkalak Pon-ar-sa

BCP ID No. : BCP-WQ-024
Company : TCM

Approved By:

Project Manager AMD Manager

Note: บัตรจะหมดอายุทันทีหากไม่ได้ ทำงานเชื่อมงานของบางจาก เกิน 6 เดือนติดต่อกัน

Carbon Steel | Low alloy steel | Stainless steel | Ni - base

Bangchak Corporation PLC : Welder Identification Card						
Process	Weld Pos/ Qualified Pos	Filler Mat.	F-No.	Testing Size	Qualified	Exp. Date
GTAW	6G / All	ER705-6	6	2"x5.54 mm	Øa3/4",Thk≤11.08 mm	9-6-23
GTAW+ SMAW	6G / All	ER705-6 E7016	6+4	6"x10.97 mm	Øa2.5",Thk≤8 mm Øa2.5",Thk ≤13.94 mm	9-6-23


TAKENAKA
บัตรอนุญาตผู้ปฏิบัติงาน
ชื่อ: นายเอกลักษณ์ พลอาสา
TTC-74
บริษัท: TTC
AMGT E-Factory
ตำแหน่ง: ช่าง
หน่วยงาน
วันที่ออกบัตรและวันหมดอายุ: 05/01/22-1/5/22
AGC
การละเมิดกฎความปลอดภัย
1
2
3
4
Supranee. K
ผู้ออกบัตร
ตรวจสอบโดย


GIE
AED
SPP-00 768
นายเอกลักษณ์ พลอาสา
BBS / ช่างเชื่อม
29-มี.ค.-64
ผู้ออกบัตร
วันออกบัตร

TAIKI-SHA

MTL_NL_A-Building & Other accessory Building New construction Work

Taikisha ID No. 0319



Name: นายเอกลักษณ์ พลอาสา

Sub-con : SLN

ผู้ออกบัตร : Kanithan

ออกบัตร : 9-Mar-22 หมดอายุ 28-Feb-23

TAIKI-SHA

MLT_NL_A-Building & Other Accessory Building New Construction Work

Taikisha ID No. 001



นายเอกลักษณ์ พลอาสา

SUBCON : SLN

(Welder)

ผู้ออกบัตร Wirakan

BSP GSP SUS (Ar)

ออกบัตร : 22-Feb-22 หมดอายุ : 22-Feb-23

Taikisha(Thailand)Co.,Ltd.



WELDER CARD

Electric Welding(SMAW)

นาย เอกลักษณ์ พลอาสา

Subcon: SLN

Project: MTL-NL

Proj.Manager: Mr.Worathep

WD-E-13/22

Date : 3 Mar'22

Expire : Feb'23

Welder Certified<WPQ>

Qualification Limits

Welding Process	: SMAW
Base Metal	: GSP :P-No.1
Filler Metal	: E7016
Position Qualificed	: 5G Pipe Ø 100mm
Visual Inspection By	: QA/QC

Certified Welding Inspector

No.CWI-18-0183-09

Amit

Wisit Aunsup (QC Sub-SecH)

CHEMO AHARON ENERGY INFRASTRUCTURES	Refrence	ASME IX 2021
	STANDATD	
	Report No.	22-CHM-INT-58

Welder Qualification test

Welder Name	Welder No.	Welder Passport	
EKKALAK PON AR SA	1158	AC-2982445	

	WPS330AS			Range of approval		
Date of Test	25/05/2023					
Welding process(es)	GTAW+SMAW			GTAW	SMAW	
Type (i.e.; manual, semi-automatic) used	Manual			Manual		
Backing (with/without)	NO			without\with		
Plate or Pipe (enter diameter if pipe or tube)	6			2.375" and up/1" and up		
nominal w.th[mm]	7.2			14.2		
Base metal P-Number to P-Number	1 TO 1			1	TO	15F
Filler metal or electrode specification(s) (SFA) (info. only)	A5.18	A5.5		----		
Filler metal or electrode classification(s) (Info. only)	ER70S-6	E7018		-----		
Filler metal F-Number(s)	6	4		ALL F.NO 6	1,2,3,4 with Backing	
Consumable insert (GTAW or PAW)	NA			NA		
Filler Metal Product Form (solid/metal or flux cored/powder)	SOLID	N/A		SOLID	BASIC	
Deposit thickness for each process(mm)	6	4		GROOVE GTAW <=6mm		
				GROOVE SMAW<=8mm		
				Fillet welds all sizes (QW-451.4)		
Position qualified (2G, 6G, 3F, etc.)	6G			All position		
Vertical progression (uphill or downhill)	Uphill			Uphill		
Type of fuel gas (OFW)	NA			NA		
Inert gas backing (GTAW, PAW, GMAW)	NO			WITH\WITHOUT		
Transfer mode (spray/globular or pulse to short circuit-GMAW)	NA			NA		
GTAW/SMAW current type/polarity (AC, DCEP, DCEN)	DCEN/DCEP			DCEN/DCEP		

Visual testing	Acc
Radiographic test	56949

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 Code.

Prepared and approved by:	yosi asulin: ICWI	Approved by	Mufeed Hamdan: IWE/CWI		
Yosi Asulin ICWI 10074 RT Level II		International welding engineer IWE Mufeed Hamdan IIW/DVS			


Ekkalak
Pon-ar-sa
Chemo-Aharon
12668

CHEMO AHARON

TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT THE EMPLOYEE NAMED BELOW HAD BEEN EMPLOYED BY OUR COMPANY FOR THE FOLLOWING PROJECT AND PERFORMED HIS ASSIGNED DUTIES IN CHEMO AHARON LTD.

NAME OF EMPLOYEE	:	EKKALAK PON-AR-SA
PASSPORT NO.	:	AC2982445
EMPLOYMENT PERIOD	:	17 MAY 2023 - 29 AUGUST 2025
POSITION	:	WELDER
PROJECT	:	INTEL SPARROW PROJECT (ISRAEL)

SINCERELY YOURS,

TANACHART AGANISTHAGORN

PROJECT MANAGER

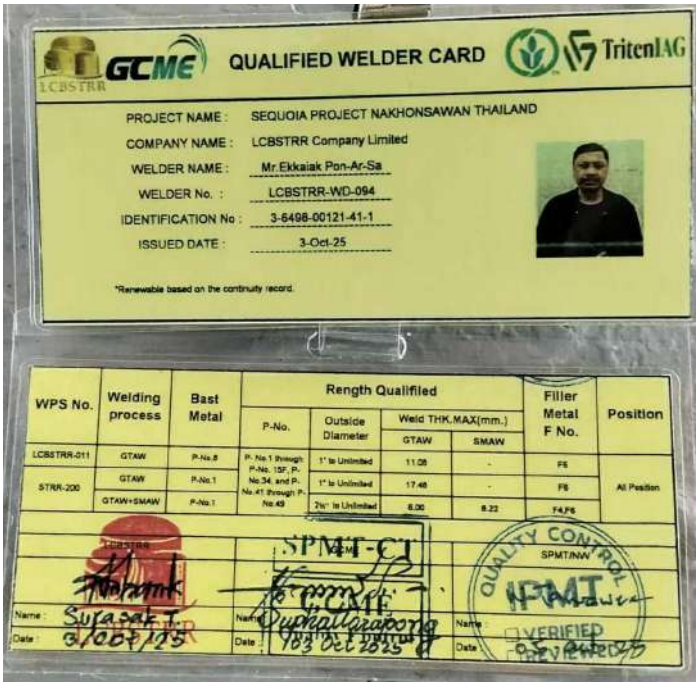
CHEMO AHARON LTD.



GCME QUALIFIED WELDER CARD

PROJECT NAME : SEQUOIA PROJECT NAKHONSAWAN THAILAND
COMPANY NAME : LCBSTRR Company Limited
WELDER NAME : Mr.Ekkaiak Pon-Ar-Sa
WELDER No. : LCBSTRR-WD-094
IDENTIFICATION No : 3-6498-00121-41-1
ISSUED DATE : 24-Sep-25

*Renewable based on the continuity record.



GCME QUALIFIED WELDER CARD TritenIAG

PROJECT NAME : SEQUOIA PROJECT NAKHONSAWAN THAILAND
COMPANY NAME : LCBSTRR Company Limited
WELDER NAME : Mr.Ekkaiak Pon-Ar-Sa
WELDER No. : LCBSTRR-WD-094
IDENTIFICATION No : 3-6498-00121-41-1
ISSUED DATE : 3-Oct-25

*Renewable based on the continuity record.

WPS No.	Welding process	Bast Metal	Rength Qualifiled				Filler Metal F No.	Position
			P-No.	Outside Diameter	Weld THK.MAX(mm.)			
					GTAW	SMAW		
LCBSTRR-011	GTAW	P-No.8	P- No.1 through P-No. 15F, P-No.34, and P-No.41 through P-No.49	1" to Unlimited	11.08	-	F6	All Position
STRR-200	GTAW	P-No.1		1" to Unlimited	17.48	-	F6	
	GTAW+SMAW	P-No.1		2½" to Unlimited	8.00	8.22	F4,F6	

LCBSTRR
Name : Surasak T.
Date : 3/Oct/25

GCME
Name : Duphallarapong
Date : 03 Oct 2025

SPMT-CT
SPMT/NW
Name :
Date :

QUALITY CONTROL
IPMT
VERIFIED
REVIEWED



TTCL Public Company Limited

NATUREWORKS SEQUOIA PROJECT (D217)

NAME :
นายเอกลักษณ์ พลอาสา
Mr.Ekkalak Pon-ar-sa
BADGE No. LCB SPMT/CT 270
หมายเลขบัตร

BBS

POSITTION : Welder
ตำแหน่ง
COMM
COMPANY : LCBSTRR
บริษัท
BLOOD TYPE : O
หมู่โลหิต
DATE OF ISSUE
วันออกบัตร
24-ก.ย.-25
DATE OF EXPIRE
วันหมดอายุ
31-ธ.ค.-25
APPROVED BY :
ผู้อนุญาต
Mr.Suppalerk W.
TTCL CONSTRUCTION MANAGER