

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
EET- CULVET 55+45		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor Reference				Revision	
Received by ER			SNA	C1	C2
				C3	DO
				MM	YY
				HH	MM

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	Welding of STEEL PIPE			
Location of Test				
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	Vent 1			
2	Vent 2			
3	Vent 3			
4	Vent 4			
5				

Comments by: <u>EL RAEID</u>	Comments by:
<i>the test result acceptable</i> <i>Eng. Abdul Dayem Ali</i> <i>EL RAEID For Consulting Engineering</i> <i>(011-4222222222)</i>	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor Engineer	<i>Eng. Farouk</i>	<i>[Signature]</i>		
EL RAEID	<i>Eng. Abdul Dayem Ali</i>	<i>[Signature]</i>		
Contractor QA/QC	<i>E. Abdul Dayem Ali</i>	<i>[Signature]</i>		
GARB *				
Employers Representative				

* Alignment / Bridges: Culvert Only

A= Approved; AWC= Approved with Comments; R= Rejected

Eng. Abdul Dayem Ali
GM & CEO
Al-Noor Engineering Services

الفاروق (عمرو و على)
El Farouk Amr & Ali
ب. ف. : ٠١٩ - ٢٩٨ - ٢٩٨
م. ف. : ٠١٩ - ٢٩٨ - ٢٩٨

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company	
EET CULVERT 55+415		ELFAROUK		ELRAID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor Reference				Revision	
Received by ER			SNA	CL S2	C2 CU
				C3 OT	DD
				MM	YY
				HH	MM
CODE-1 S1 to S22 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
			CODE-2 Work Activity		CODE-3 Sub Element of Activity

Description of Materials	Painting pipe Vent 4				
Location to be Used	Culvert 55+415				
MAR Approval No	5	Date			
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No	Other			
Item	Description	Unit	Quantity	Arrival Date	Note
1	Painting pipe Vent 4	M'	75	12-04-2023	Vent 4
2	Painting pipe Vent 4	M'	81	22-07-2024	Vent 4
Comments by:					
			Comments by:		

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. Abdul Dayem Ali				
Contractor QA/QC	E. Abdul Dayem Ali				
ELRAID	Bossam Hamada				
GARB*					
Employers Representative					

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
Culvert 55+415		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Designation							
Contractor Reference					Revision						
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference					Revision						
Received by ER			MAR 5	C1 SI	C2 CU	C3 OT	DO	MM	YY	HH	MM
CODE-1 S1 to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity					

Description of Materials	PAINTING pipe For Vent 4		
Location to be Used	Culvert 55+415		
Sample only	Yes / No	Materials Type	
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by: ELRAID		Comments by:	
the test results acceptable			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	MECS				
ELRAID	Hossam Hamada				
Contractor QA/QC	G. Abdul Bayem Ali				
GARB*					
Employers Representative					

Eng. Abdul Bayem Ali
GM & CEO
Al-Noor Engineering Services

* Alignment/Bridges: Culvert only

A= Approved, AWC= Approved with Comments, R= Rejected

PAINTING EXAMINATION REPORT

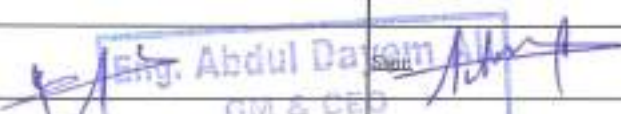
Project Name:	مشروع الطار الكهربائي السريع (العين المسطحة - مطروح) - ربيع كم (55+415)	AES Form No.	AES-F-007
Owner	وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري	Report No.	AES-P-004
Consultant	مكتب ميسرا للاستشارات الهندسية	Date:	19/09/2024
Contractor	شركة القاروقى مصر و.م.م	Rev.	0

Job No.		Material :	AS DWG.
---------	--	------------	---------

Sr	DRAWING NO.	ITEM NO.	Descib.	Rev.	First coat											
1	Vent 4		B.B	0	Painting Type / Name	ZINCANOSE 685										
2			B.B	0	Color	Gray										
5			B.B	0	Surface Temperature C°	Room Temp.										
6			B.B	0	Required DFT μ	75										
7			B.B	0	Actual DFT μ	99	110	95	60	98	80					
8			B.B	0	Average DFT μ	90.33333333										
9			B.B	0	Intermediate coat											
10			B.B	0	Painting Type	EPILUX 219										
11			B.B	0	Color	Gray										
14			B.B	0	Surface Temperature C°	Room Temp.										
15			B.B	0	Required DFT μ	200.00										
16			B.B	0	Actual DFT μ	213	216	200	199	215	196					
17			B.B	0		197	190	177	215	223	200					
18			B.B	0		196	176	216	210	227	210					
19			B.B	0		200	160	210	180	255	212					
20			B.B	0		186	200	200	195	205	215					
23			B.B	0		140	195	217	205	200	240					
24			B.B	0		165	222	200	208	196	210					
25			B.B	0		194	216	213	226	256	195					
26			B.B	0	Average DFT μ	204										
27			B.B	0	Final Inspection Result											
28			B.B	0	General Inspection check list						Final Result					
29			B.B	0	1	No dirt are left between layers					Accepted					
30			B.B	0	2	No sagging is observed					Repair					
31			B.B	0	3	Holes and edges are coated					Reject					
32			B.B	0	4	Adhesion Test done (Randomly)										

General Notes:

- 1- BLAST CLEANING ACCORDING TO ISO 8501-1 (SA 2.5) AND RELEVANT PAINTING TECHNICAL DATA SHEET U.O.N
- 2- ALL PAINT PROCEDURES ACCORDING TO THE CLIENT SPEC.
- 3- ALL CONSUMABLE HAVE BEEN ISSUED & VERIFIED.

AES Inspector	Approved by	Other
Name : Abdullah Abd ElMotaz	Name:	Name:
Sign: 	Sign: 	Sign:
Date: 	Date:	Date:

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company							
EET CULVERT 55+415		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Time							
Contractor Reference					Revision						
Received by ER			SNA	C1 S1	C2 u	C3 OT	DD	MM	YY	HH	MM
	CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity		

Description of Materials	Painting pipe Vent 1				
Location to be Used	Culvert 55+415				
MAR Approval No	2			Date	
Supplier Name					
Test Requirement			Specification	Clause	
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	Painting pipe Vent 1	M'	156	06-04-2023	Vent 1
Comments by: ELRAID					
bhe inspection is acceptable as visual					
الإستشارات الهندسية Rafid For Consulting Engineering شركة الإستشارات الهندسية الرفيد					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. Amr & Ali				
Contractor QA/QC	E. Abdul Dayem Ali				
ELRAID	Hossam Benadi				
GARB*					
Employers Representative					

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

Eng. Abdul Dayem Ali
GM & CEO
Amr & Ali Engineering Services

الموافق: ٠٦-٠٤-٢٠٢٣
بني: امرو و علي
EL Farouk Amr & Ali
١٥٦٢١
فص: ٢٥-١٦-٢١-٠١٥٢-٥

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
Culvert 55+415		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Designation							
Contractor Reference				Revision							
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference				Revision							
Received by ER			MAR 2	C1 S1	C2 cu	C3 OT	DD	MM	YY	HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to D3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity			

Description of Materials	PAINTING pipe For Vent 1		
Location to be Used	Culvert 55+415		
Sample only	Yes / No	Materials Type	
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by: ELRAID		Comments by:	
the best results acceptable			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer					
ELRAID	Hossam Hamed				
Contractor QA/QC	E. Abdul Dayem Ali				
GARB*					
Employers Representative					

Eng. Abdul Dayem Ali
GM & CEO
A-Noor Engineering Services

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

PAINTING EXAMINATION REPORT

Project Name:	مشروع المطار الكهربائي السريع (الحل السكني مطروح) - برنج كم (55+415)	AES Form No.	AES-P-007
Owner	وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري	Report No.	AES-P-001
Consultant	مكتب ميسرا للاستشارات الهندسية	Date:	19/09/2024
Contractor	شركة الفاروق صرو وولي	Rev.	0

Job No.		Material :	AS DWG.
---------	--	------------	---------

Sr	DRAWING NO.	ITEM NO.	Desob.	Rev.	First coat						
1	Vent 1		B.B	0	Painting Type / Name	ZINCANODE MS					
2			B.B	0	Color	Gray					
5			B.B	0	Surface Temperature C°	Room Temp.					
6			B.B	0	Required DFT μ	75					
7			B.B	0	Actual DFT μ	80	75	75	65	70	65
8			B.B	0	Average DFT μ	71.66666667					
9			B.B	0	Intermediate coat						
10			B.B	0	Painting Type	EPIHAX 219					
11			B.B	0	Color	Gray					
14			B.B	0	Surface Temperature C°	Room Temp.					
15			B.B	0	Required DFT μ	200.00					
16			B.B	0	Actual DFT μ	220	200	190	187	188	190
17			B.B	0		200	195	180	182	175	150
18			B.B	0		210	222	244	206	196	213
19			B.B	0		186	216	214	196	196	200
20			B.B	0		140	175	196	197	200	177
23			B.B	0		165	185	206	200	210	216
24			B.B	0		194	160	221	205	212	210
25			B.B	0		190	211	213	208	214	200
26			B.B	0		Average DFT μ	197				
27			B.B	0	Final inspection Result						
28			B.B	0	General inspection check list				Final Result		
29			B.B	0	1	No dirt are left between layers				Accepted	
30			B.B	0	2	No sagging is observed				Repair	
31			B.B	0	3	Holes and edges are coated				Reject	
32			B.B	0	4	Adhesion Test done (Randomly)					

General Notes:

- 1- BLAST CLEANING ACCORDING TO ISO 8501-1 (SA 2.5) AND RELEVANT PAINTING TECHNICAL DATA SHEET U.O.N
- 2- ALL PAINT PROCEDURES ACCORDING TO THE CLIENT SPEC.
- 3- ALL CONSUMABLE HAVE BEEN ISSUED & VERIFIED.

AES Inspector	Approved by	Other
Name: Abdulrah Abd ElMorsal	Name:	Name:
Sign:	Sign:	Sign:
Date:	Date:	Date:

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company	
EET CULVERT 55+415		ELFAROUK		ELRAID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor Reference				Revision	
Received by ER			SNA	C1 S1	C2 ru
				C3 OT	DD
	MM	YY	HH	MM	
CODE-1 S1 to S23 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Up XXX For Kilometer point only	
			CODE-2 Work Activity		CODE-3 Sub Element of Activity

Description of Materials		Painting pipe Vent 2			
Location to be Used		Culvert 55+415			
MAR Approval No		3		Date	
Supplier Name					
Test Requirement		Specification		Clause	
Reference Photos		Yes attached / No		Other	
Item	Description	Unit	Quantity	Arrival Date	Note
1	Painting pipe Vent 2	M'	75	09-04-2023	Vent 2
2	Painting pipe Vent 2	M'	81	22-07-2024	Vent 2
Comments by:		Comments by:			
the inspection is acceptable as visual El Farouk Amr & Ali م.ع.ف.أ.م.ر. و.أ.ل.ي					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. Farouk				
Contractor QA/QC	E. Abdul Jarem Ali	Adnan	Eng. Abdul Dayem Ali		
ELRAID	Hossein Kamada		GM & CEO		
GARB*			Al-Nad Engineering Services		
Employers Representative			El Farouk Amr & Ali		

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
Culvert 55+415		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Designation							
Contractor Reference					Revision						
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference					Revision						
Received by ER			MAR 3	C1 S2	C2 cu	C3 OT	DD	MM	YY	HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity			

Description of Materials	PAINTING pipe For Vent 2		
Location to be Used	Culvert 55+415		
Sample only	Yes / No	Materials Type	
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by: ELRAID		Comments by:	
the best result acceptable			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. Ali				
ELRAID	Eng. Hassan Alamedd				
Contractor QA/QC	E. Abdul Dayem A.				
GARB*					
Employers Representative					

Eng. Abdul Dayem Ali
A
QM & CEO
At-Noor Engineering Services

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

PAINTING EXAMINATION REPORT

Project Name:		مشروع المطار الكهربائي السريع (لبنان المسفحة - مطروح) - بريق كم (55+415)			AES Form No.		AES-P-007	
Owner		وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري			Report No.		AES-P-002	
Consultant		مكتب سيمترا للاستشارات الهندسية			Date:		19/09/2024	
Contractor		شركة الفاروق صرو وولي			Rev.		0	
Job No.					Material :		AS DWG.	

Br	DRAWING NO.	ITEM NO.	Descr.	Rev.	First coat								
1	Vent 2		B.B	0	Painting Type / Name		ZINCANODE 685						
2			B.B	0	Color		Gray						
5			B.B	0	Surface Temperature C°		Room Temp.						
6			B.B	0	Required DFT μ		75						
7			B.B	0	Actual DFT μ		99	110	95	60	98	80	
8			B.B	0	Average DFT μ		90.33333333						
9			B.B	0	Intermediate coat								
10			B.B	0	Painting Type		EPILOX 219						
11			B.B	0	Color		Gray						
14			B.B	0	Surface Temperature C°		Room Temp.						
15			B.B	0	Required DFT μ		200.00						
16			B.B	0	Actual DFT μ		213	256	182	199	197	188	
17			B.B	0			197	215	210	215	195	200	
18			B.B	0			196	223	226	210	196	214	
19			B.B	0			200	227	210	188	199	195	
20			B.B	0			210	255	186	195	216	203	
23			B.B	0			212	190	217	205	208	214	
24			B.B	0			215	176	200	208	196	210	
25			B.B	0			240	213	213	226	256	195	
26			B.B	0	Average DFT μ		209						
27			B.B	0	Final Inspection Result								
28			B.B	0	General Inspection check list							Final Result	
29			B.B	0	1	No dirt are left between layers						Accepted	
30			B.B	0	2	No sagging is observed						Repair	
31			B.B	0	3	Holes and edges are coated						Reject	
32		B.B	0	4	Adhesion Test done (Randomly)								

General Notes:

- 1- BLAST CLEANING ACCORDING TO ISO 8501-1 (SA 2.5) AND RELEVANT PAINTING TECHNICAL DATA SHEET U.O.N
- 2- ALL PAINT PROCEDURES ACCORDING TO THE CLIENT SPEC.
- 3- ALL CONSUMABLE HAVE BEEN ISSUED & VERIFIED.

AES Inspector		Approved by		Other	
Name : Abdullah Abd ElMotaal		Name :		Name :	
Sign :		Sign :		Sign :	
Date :		Date :		Date :	

Eng. Abdul Dayem Ali
GM & CO
Al-Noor Engineering Services

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company	
EET CULVERT 55+415		ELFAROUK		ELRAID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor Reference				Revision	
Received by ER			SNA	C1 S1	C2 CU
				C3 OT	DO
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to D3 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

Description of Materials		Painting pipe Vent 3			
Location to be Used		Culvert 55+415			
MAR Approval No		4		Date	
Supplier Name					
Test Requirement		Specification		Clause	
Reference Photos		Yes attached / No		Other	
Item	Description	Unit	Quantity	Arrival Date	Note
1	Painting pipe Vent 3	M'	75	11-04-2023	Vent 3
2	Painting pipe Vent 3	M'	81	22-07-2024	Vent 3
Comments by:		Comments by:			
The inspection is acceptable as visual El Farouk For Consulting Engineering (شركة الفاروق للاستشارات الهندسية)					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. E. Farouk				
Contractor QA/QC	Eng. Abdul Dayem Ali		Eng. Abdul Dayem Ali		A
ELRAID	A. Ossam Hameed		GM & CEO		A
GARB*			Al-Noor Engineering Services		
Employers Representative			El Farouk Amr & Ali		

* Alignment/Bridges: Culvert only

A= Approved, AWC= Approved with Comments, RA= Rejected

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
Culvert 55+415		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Designation							
Contractor Reference					Revision						
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference					Revision						
Received by ER			MAR 4	C1 SI	C2 cu	C3 OT	DD	MM	YY	HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity			

Description of Materials	PAINTING pipe For Vent 3		
Location to be Used	Culvert 55+415		
Sample only	Yes / No	Materials Type	
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by:		Comments by:	
the best result acceptable			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer					
ELRAID	Hossam Hameida				
Contractor QA/QC	E. Abdul Dayem Ali				
GARB*					
Employers Representative					

Eng. Abdul Dayem Ali
GM & CEO
Al-Noor Engineering Services

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

PAINTING EXAMINATION REPORT

Project Name:	مشروع المطار الكهربائي السريع (العين المسجلة مطروح) - بريق كم (55+415)	AES Form No.	AES-F-007
Owner	وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري	Report No.	AES-P-003
Consultant	مكتب سيمترا للإستشارات الهندسية	Date:	19/09/2024
Contractor	شركة الفاروق عمر وعلي	Rev.	0
Job No.		Material :	AS DWG.

Sr	DRAWING NO.	ITEM NO.	Descb.	Rev.	First coat							
1	Vent 3		B.B	0	Painting Type / Name	ZINCANODE 685						
2			B.B	0	Color	Gray						
5			B.B	0	Surface Temperature C°	Room Temp.						
6			B.B	0	Required DFT μ	75						
7			B.B	0	Actual DFT μ	80	75	75	65	70	65	
8			B.B	0	Average DFT μ	71.66666667						
9			B.B	0	Intermediate coat							
10			B.B	0	Painting Type	EPILOX 219						
11			B.B	0	Color	Gray						
14			B.B	0	Surface Temperature C°	Room Temp.						
15			B.B	0	Required DFT μ	200.00						
16			B.B	0	Actual DFT μ	106	200	210	215	195	197	
17			B.B	0		140	195	228	210	196	150	
18			B.B	0		165	188	148	215	210	215	
19			B.B	0		194	216	165	223	226	210	
20			B.B	0		212	190	194	227	210	188	
23			B.B	0		215	178	198	255	186	195	
24			B.B	0		194	160	221	205	213	210	
25			B.B	0		199	219	213	208	214	209	
26			B.B	0		Average DFT μ	200					
27			B.B	0	Final inspection Result							
28			B.B	0	General inspection check list					Final Result		
29			B.B	0	1	No dirt are left between layers				Accepted		
30			B.B	0	2	No sagging is observed				Repair		
31			B.B	0	3	Holes and edges are coated				Reject		
32			B.B	0	4	Adhesion Test done (Randomly)						

General Notes:

- 1- BLAST CLEANING ACCORDING TO ISO 8501-1 (SA 2.5) AND RELVANT PAINTING TECHINAL DATE SHEET U.O.N
- 2- ALL PAINT PROCEDURES ACCORDING TO THE CLIENT SPEC.
- 3- ALL CONSUMABLE HAVE BEEN ISSUED & VERIFIED.

AES Inspector	Approved by	Other
Name : Abdullah Abd ElMotal	Name:	Name:
Sign: 	Sign: 	Sign:
Date:	Date:	Date:



1. The first part of the document is a list of the names of the people who were present at the meeting.

2. The second part of the document is a list of the topics that were discussed during the meeting.

3. The third part of the document is a list of the actions that were taken during the meeting.

4.

5. The fourth part of the document is a list of the people who were responsible for the actions.

6. The fifth part of the document is a list of the people who were responsible for the actions.

7.

8. The sixth part of the document is a list of the people who were responsible for the actions.

9. The seventh part of the document is a list of the people who were responsible for the actions.

10. The eighth part of the document is a list of the people who were responsible for the actions.

11.

12. The ninth part of the document is a list of the people who were responsible for the actions.

13. The tenth part of the document is a list of the people who were responsible for the actions.

14.

15.

16.

17. The eleventh part of the document is a list of the people who were responsible for the actions.

18. The twelfth part of the document is a list of the people who were responsible for the actions.

19. The thirteenth part of the document is a list of the people who were responsible for the actions.

20.

21. The fourteenth part of the document is a list of the people who were responsible for the actions.



1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]

... ..

[illegible][illegible]

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

[illegible]1508 *Journal of Interpersonal Violence* 26(8)

$\chi^2 = 0.96$, $df = 1$, $p = 0.33$

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+415		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference					Revision
Received by ER			UIR	C1	C2
				C3	DO
				MM	YY
				HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S1 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	PAINTING
Inspection Description : CHECK OF PAINTING FOR - VENT NO 4		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
ATTACHEMENTS	DESIGN OF PIPE & DATA SHEET OF MATERIAL		

Comments by: <i>El RAEID</i>	Comments by: SYSTRA MAIN CONSULTANT
<i>the work is acceptable</i> El RAEID For Consulting Engineering (شركة الهندسة والبناء)	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	<i>Mohamed Sobhy</i>						
EL RAEID	<i>Mossam Kamel</i>	<i>AD</i>				A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

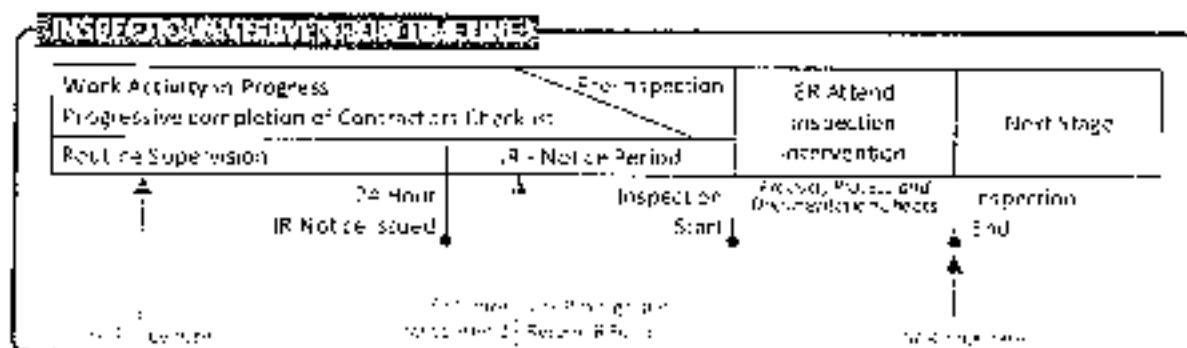
الطاروق (عمر و علي)
 EL-FAROUK Amir & Ali
 Approved AWC Approved with comments: R- Rejected
 ب. ن. ٢٧٦ - ٢٩٨ - ٢١٩ - ٠٧٦
 ٥ - ٠٠١٥٣ - ٢١٠ - ١٦ - ٢٥

Instructions for Use.

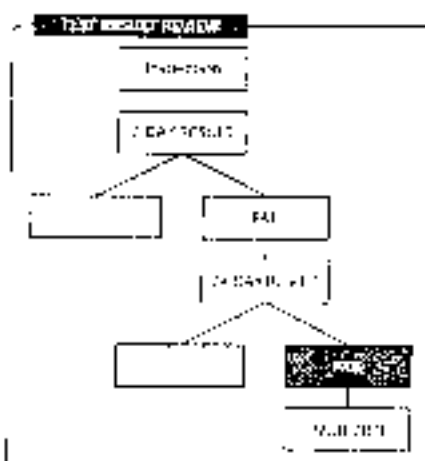
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should on their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (EP) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UR. Comments at this stage are not expected although e.g. minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as mandated and check the Contractors supporting Drawings, Test results, Pre-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress. *When Approved with comments, the next stage of work may progress only after the comments have been completed and reviewed. The contractor must sign a form to achieve status approved with comments, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and re-inspected*

AWC or R will require a new UR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that test results taken during inspection will be available at some date in the future (eg 7 and 28 Day.)

The purpose of the UR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to a AWC records and revise to A

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+45		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference		Revision			
Received by ER		UIR	C1	C2	C3
			DD	MM	YY
			HH	MM	
CODE-1 S1 to S21 Station Reference	CODE-1 D1 to S1 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	- culvert	Roughing
Inspection Description : <u>CHCK OF ROUGHING OF THE CONCRETE SURFACE FOR VENT 1,</u> <u>LENGTH OF ONE VENT =150 M /</u>		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	

Comments by: <u>EL RAEID</u>	Comments by: SYSTRA MAIN CONSULTANT
<u>the work is acceptable</u> El RAEID For Controlling Engineering	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	<u>El Farouk Amr</u>						
EL RAEID	<u>Gossam</u>					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved, AWC= Approved with comments, R= Rejected

File Name: UIR - Universal IR Form Roughing

El Farouk Amr & Ali
 ١٥٦٧١ : ٢٩٨ - ٢١٩ - ٠٢٦
 ٥ : ٠٠١٥٣ - ٢١٠ - ١٦ - ٢٥

Page 2 of 2

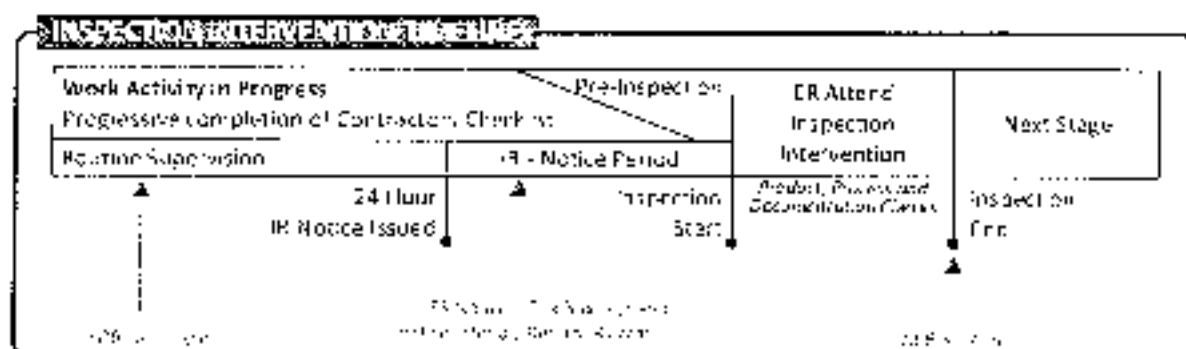


Instructions for Use:

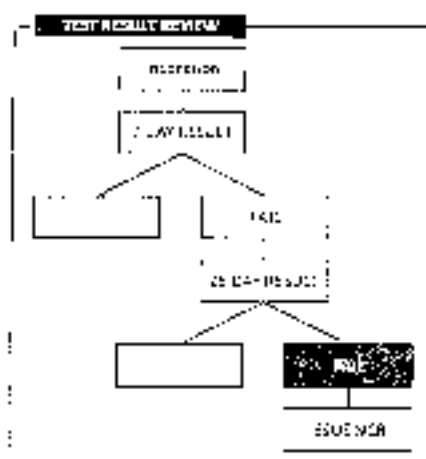
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UR. Comments at this stage are not expected although e.g. minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as indicated and check the Contractor's supporting Drawings, Test results, Pre-inspection signed sheets and check dimensions, alignment, workmanship etc. If satisfied ER shall sign the UR Code A – Approved, or shall add relevant comments and add AWC – Approved with Comments and the next stage may progress using the appropriate part of the UR Form. If not satisfied with the inspection the ER shall add AWC – A and reject this activity until all items fail have been corrected. Approved with Comments, or B/C shall add R = Rejected as the work is not satisfactory and must be corrected and re-inspected

AWC or R will require a new UR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work

It is known that test results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to an AWC record and revise to A

Review of Test Results is just another stage of the work activity and result reviews have their own history. The test results shall be assessed when available and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company							
EET- CULVET 55+45		EL-FAROUK		EL RAEID							
Issued by Contractor	Name	Sign	Date	Time							
Contractor UIR Reference		Revision									
Received by ER			UIR	C1	C2	C3	DD	MM	YY	HH	MM
CODE-1 S1 to S21 Station Reference		CODE-2 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity			

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	Roughing
<u>Inspection Description :</u> <u>CHK OF ROUGHING OF THE CONCRETE SURFACE FOR VENT 2</u> <u>LENGTH OF ONE VENT =150 M /</u>		

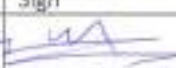
INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be Included as appropriate

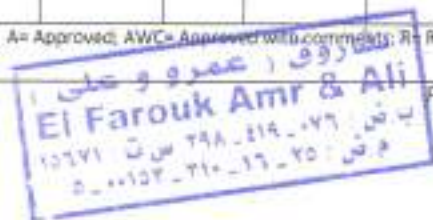
Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	

Comments by: <u>EL RAEID</u>	Comments by: SYSTRA MAIN CONSULTANT
<u>the work is acceptable</u> 	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	<u>Mohammed</u>						
EL RAEID	<u>Hossam</u>					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved; AWC= Approved with comments; R= Rejected

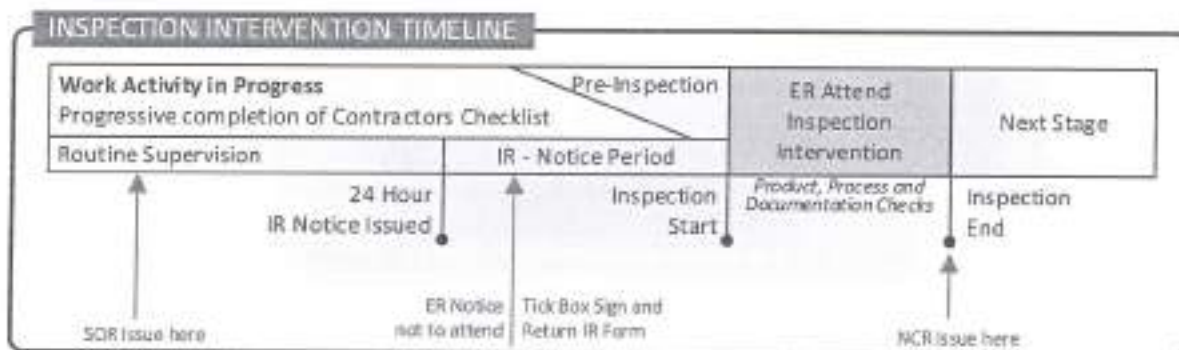


Instructions for Use:

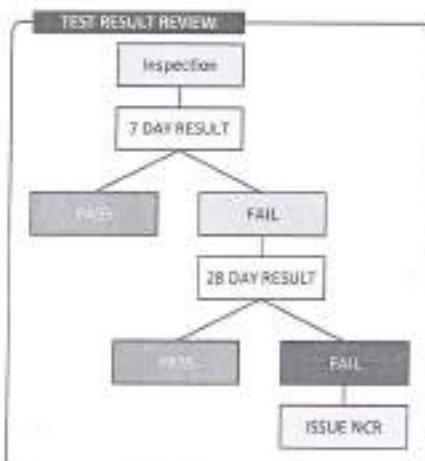
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress using full application of the comments and concurrently, the correction to the work must be completed and reinspected promptly with IR Form to achieve status Approved Without Comment, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+45		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference				Revision	
Received by ER			UIR	C1	C2
				C3	DD
				MM	YY
				HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	Roughing
Inspection Description : CHCK OF ROUGHING OF THE CONCRETE SURFACE FOR VENT 3 LENGTH OF ONE VENT =150 M /		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

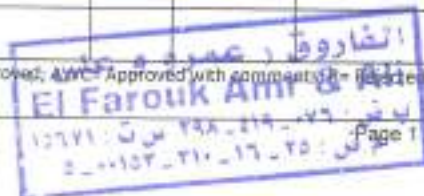
Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	

Comments by: EL RAEID	Comments by: SYSTRA MAIN CONSULTANT
the work is acceptable El RAEID For Consulting Engineering (الرائد للتصميم والهندسة)	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	Mohamed Saleh						
EL RAEID	Hosam Hamada					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved, AWC= Approved with comments



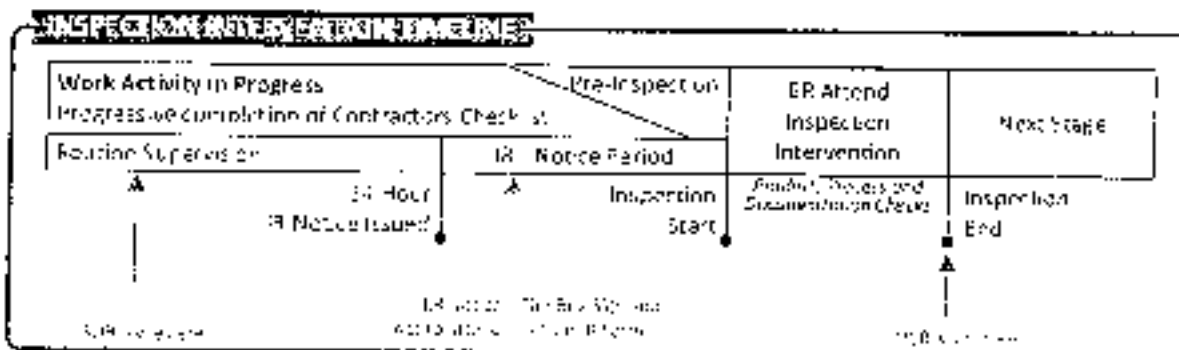


Instructions for Use:

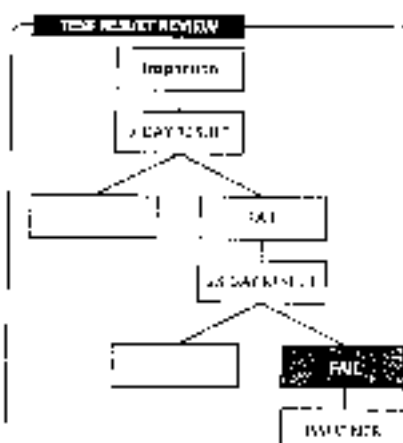
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively.
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and the own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UR form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UR. Comments at this stage are not expected although eg. minor cleaning prior to concrete pour will be allowed.
- ☐ The ER shall attend as indicated and check the Contractor's supporting Drawings, Test results, Per-Inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress. *When AWC is added, the Employer will be notified of the comments and the work will be allowed to progress. The Contractor will be notified of the comments and the work will be allowed to progress. The Contractor will be notified of the comments and the work will be allowed to progress.* If not satisfied, ER shall add R = Rejected as the work is not satisfactory and must be corrected and re-inspected.

AWC or R will require a new UR form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress.



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection record to be reviewed for previous work.

It is known that test results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own Lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+45		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference					Revision
Received by ER			UIR	C1	C2
				C3	DD
				MM	YY
				HH	MM
CODE-2 S2 to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 Xp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	Roughing
<u>Inspection Description :</u> <u>CHCK OF ROUGHING OF THE CONCRETE SURFACE FOR VENT 4</u> <u>LENGTH OF ONE VENT =150 M /</u>		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be Included as appropriate

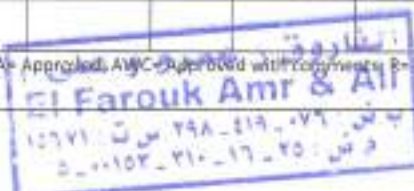
Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	

Comments by: EL RAEID	Comments by: SYSTRA MAIN CONSULTANT
the work is acceptable	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	Mohammed						
EL RAEID	Wassim					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved, AWC= Approved with Comments, R= Rejected



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+415		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference					Revision
Received by ER			UIR	C1	C2
				C3	DO
				MM	YY
				HH	MM
CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	PAINTING
<u>Inspection Description :</u> CHECK OF PAINTING FOR - VENT NO 3		

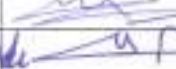
INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
ATTACHEMENTS	DESIGN OF PIPE & DATA SHEET OF MATERIAL		

Comments by: EL RAEID	Comments by: SYSTRA MAIN CONSULTANT
the work is acceptable	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	Mohammed Sobhi						
EL RAEID	Dossam Hamad					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved, AWC= Approved with comments, R= Rejected

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

() Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+415		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference				Revision	
Received by ER			UIR	C1	C2
				C3	DD
				MM	YY
				HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 01 to S5 Depot Reference		CODE-1 Kp XXX For Kilometer point only	
			CODE-2 Work Activity		CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
55+415	culvert	PAINTING
Inspection Description : CHECK OF PAINTING FOR - VENT NO 2		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

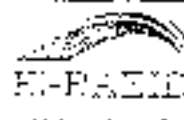
Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
ATTACHEMENTS	DESIGN OF PIPE & DATA SHEET OF MATERIAL		

Comments by: EL RAEID	Comments by: SYSTRA MAIN CONSULTANT
the work is acceptable مقبول العمل El RAEID For Consulting Engineering مهندسين واستشاريين	

INSPECTION RESULT						Approval Status	Please Tick If Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	magabesab						
EL RAEID	Hossam Hamed					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved, AWC= Approved with comments, R= Rejected

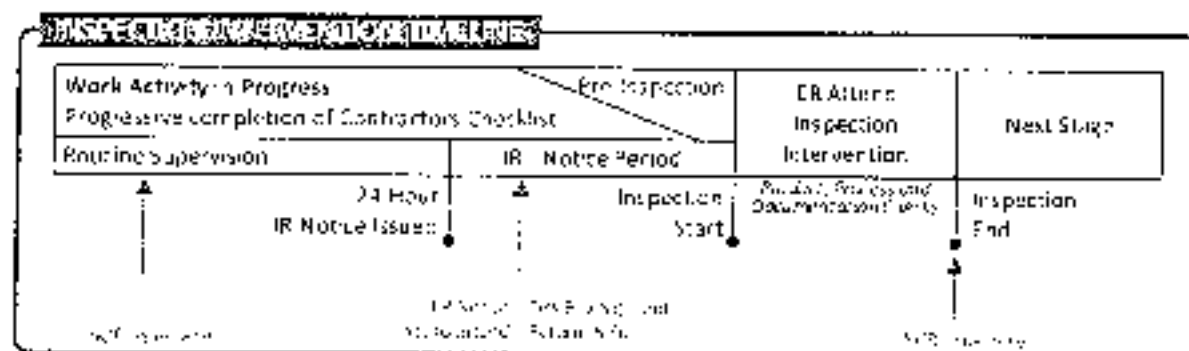


Instructions for Use:

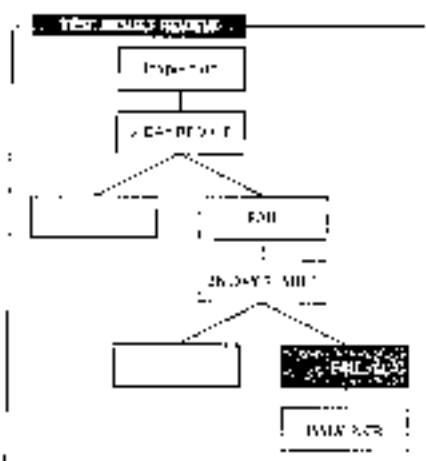
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively.
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange corrections. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UR. Comments at this stage are not expected although e.g. minor clearing prior to concrete pour will be allowed.
- ☐ The ER shall attend as indicated and check the Contractor's supporting Drawings, Test results, Pre-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress. *The UR will mark the end of the inspection and the contractor may now proceed to the work which must be completed and re-inspected if necessary. With UR Form to check status, drawings without Comments or ER shall add R = Rejected as the work is not satisfactory and must be corrected and re-inspected.*

AWC or R will require a new UR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and refer to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Location Name		Contractor Company		Designer Company	
EET- CULVET 55+415		EL-FAROUK		EL RAEID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference					Revision
Received by ER			UIR	C1	C2
				C3	DD
				MM	YY
				HH	MM
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Mp XXX For Kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

EXPLANATION OF WORK TO BE INSPECTED

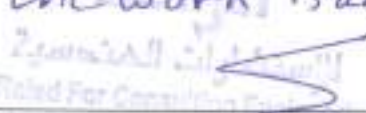
Area	Element	Item
55+415	culvert	PAINTING
Inspection Description : CHECK OF PAINTING FOR - VENT NO 1		

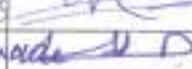
INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as Indicated ☐
Drawing Reference	ITP Reference	MS Reference	
ATTACHEMENTS	DESIGN OF PIPE & DATA SHEET OF MATERIAL		

Comments by: EL RAEID	Comments by: SYSTRA MAIN CONSULTANT
The work is acceptable  EL RAEID For Consulting Engineer	

INSPECTION RESULT						Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Designation	Date	Time	A-AWC-R	
Contractor Engineer	moheeb solima						
EL RAEID	hossam Hamada					A	
GARB*							
Employers Representative							

* Alignment: Bridges: Culvert Only

A= Approved; AWC= Approved with comments; R= Rejected

MATERIAL APPROVAL REQUEST

الهيئة العامة للإسكان



Location Name		Contractor Company		Designer Company							
Culvert 00+110		ELFAROUK		ELRAID							
Issued by Contractor	Name	Sign	Date	Designation							
Contractor Reference					Revision						
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference					Revision						
Received by ER				C1	C2	C3	DD	MM	YY	HH	MM
				S1	S2	OT					
CODE-1 S1 to S11 Station Reference		CODE-1 D1 to S1 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-1 Work Activity		CODE-1 Sub Element of Activity			

Description of Materials	Steel pipe For Vent 1,2,3,4		
Location to be Used	Culvert 00+110		
Sample only	Yes / No	Materials Type	
Supplier Name		Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by: ELRAID		Comments by:	
the best results acceptable El Raled For Consult S			

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. C. A.				
ELRAID	Hossam Hameida				
Contractor QA/QC	E. Abdou Dayem Ali				
GARB*					
Employers Representative					

* Alignment/Bridges: Culvert only

A= Approved AWC= Approved with Comments R= Rejected



Mechanical Testing Laboratory
Metallurgical Dept. – Building No. 32
Faculty of Engineering – Cairo University



Testing
CAB #
041304B(4)



معمل الاختبارات الميكانيكية
قسم الفلزات - مبنى رقم 32
كلية الهندسة - جامعة القاهرة

Test Report

Test Request #	177	Specimen(s) ID	9-23/412
----------------	-----	----------------	----------

The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017

Date of request	12/7/2023	Number of pages	2
Test(s) Required	Tensile+ Chemical		
Test method (Mechanical)	Tension (ASTM E8/22)		
Test method (Chemical)	Low alloy steel (ASTM E415/21)		
Test item description	Pl 22 mm		
Owner	الهيئة الهندسية للطرق والكباري		
Contractor	شركة الفاروق عمرو وطني		
Project name	اصال تدعيم بربيع كم (55+415) اسفل مسار القطار الكهربائي السريع		
Date of Performing Test	12/7/2023	Test Report Date	12/7/2023
Temperature, °C	23	Humidity, %	37
- Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details. - The Un-machined specimen was sent by the customer.			

1-Tensile Test: Test Machine: SHIMADZU / UH-1000KNX Universal Testing Machine.

Serial No: 124105000018

Test Specimen	9-23/412	9-23/412 (2)	Required for grade S355JR
Thickness, mm	15.8	15.7	-----
Yield stress, Mpa	397	401	345 min.
Ultimate Tensile stress, Mpa	572	567	470-630
Elongation, %	29	31	22 min.

Test conducted by:

Signature:

- The test results represent a sample provided - by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
- Reports issued by the Lab are confidential and belong to the requesting party alone and cannot be given to any other part.
- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due

Technical Advisor	Lab. Manager / Lab. Supervisor
Signature:	Prof. Dr. Mahmoud Tash
Signature:	Signature:

Tel -Fax/Mobile: 0235678005 - 01277721545 - 01277721525

Email: - matlab@eng.cu.edu.eg

Building 32-Faculty of Engineering-Cairo University-El Gamaa St.-Giza.

Issue No/Rev No: 1/2

Page 1 of 2

MTL-F-7.8.1



Mechanical Testing Laboratory
Metallurgical Dept. – Building No. 32
Faculty of Engineering – Cairo University



Testing
CAB #
041304B(4)



معمل الاختبارات الميكانيكية
قسم الفلزات - مبنى رقم 32
كلية الهندسة - جامعة القاهرة

2-Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Nb
9-23/412	0.170	0.917	0.180	0.013	0.012	0.008	0.309	0.007	0.004	0.005	0.002	0.020	0.001	0.000
9-23/412-(2)	0.167	0.932	0.174	0.014	0.014	0.006	0.301	0.006	0.004	0.004	0.003	0.017	0.000	0.001
Required for grade S355JR	0.27 max	1.70 max	0.60 max	0.045 max	0.045 max	---	---	0.60 max	---	---	---	---	---	---

Note: According to footnote (f) in EN10025-2, the max. Value for nitrogen does not apply if the Chemical composition shows a minimum total (Al) content of 0.015%.

Test conducted by:

Signature:

- The test results represent a sample provided – by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
- Reports issued by the Lab are confidential and belong to the requesting party alone and cannot be given to any other party.
- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

Technical Advisor	Lab. Manager / Lab. Supervisor
Signature:	Prof. Dr. Mahmoud Tash
	Signature:



Mechanical Testing Laboratory
Metallurgical Dept. – Building No. 32
Faculty of Engineering – Cairo University



Testing
CAB #
041304B(4)



معمل الاختبارات الميكانيكية
قسم الغازات - مبنى رقم 32
كلية الهندسة - جامعة القاهرة

Conformity Report

This report based on the results presented in Test Request #:	177
Specimen(s) ID	9-23/412

Final Evaluation:

According to compliance with EN10025-2:2019

- 1- The specimen tensile properties are in conformity with grade S355JR according to EN10025-2:2019
- 2- The specimen chemical analysis is in conformity with grade S355JR according to EN10025-2:2019

Report prepared by: Eng/ Jumana Fawzy

Reviewed by:

Technical Advisor	Lab. Manager / Lab. Supervisor
Signature:	Prof. Dr. Mahmoud Tash

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company						
EET-CULVERT 55+415		ELFAROUK		ELRAEID						
Issued by Contractor	Name	Sign	Date	Time						
Contractor Reference					Revision					
Received by ER		SNA	C1	C2	C3	DD	MM	YY	HH	MM
			S1	CU	OT					
CODE-1 S1 to S23 Station Reference		CODE-1 D1 to D3 Depot Reference		CODE-1 Kp XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity		

Description of Materials	Steel pipes				
Location to be Used	Culvert 55+415				
MAR Approval No	1			Date	
Supplier Name					
Test Requirement			Specification	Clause	
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	Steel pipe(dia.=70 cm , thick.=22 mm)	M'	150	6-4-2023	
2	Steel pipe(dia.=70 cm , thick.=22 mm)	M'	75	9-4-2023	
3	Steel pipe(dia.=70 cm , thick.=22 mm)	M'	75	11-4-2023	
4	Steel pipe(dia.=70 cm , thick.=22 mm)	M'	75	12-4-2023	
Comments by ELRAEID :			Comments by SYSTRA :		
- acceptable as visual inspection - must be good storage in site according to Project Specs - take sample to perform required tests					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer					A
Contractor QA/QC	E. Abdelkarem Ali				A
ELRAEID	HD. Shazly				
GARB*					
Employers Representative					

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

1890

1891

1892

1893

1894

1895

1896

1897

1898

1899

1900

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673,

الموقف

[illegible]

... ..

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

2. The second part of the paper is devoted to a discussion of the specific properties of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

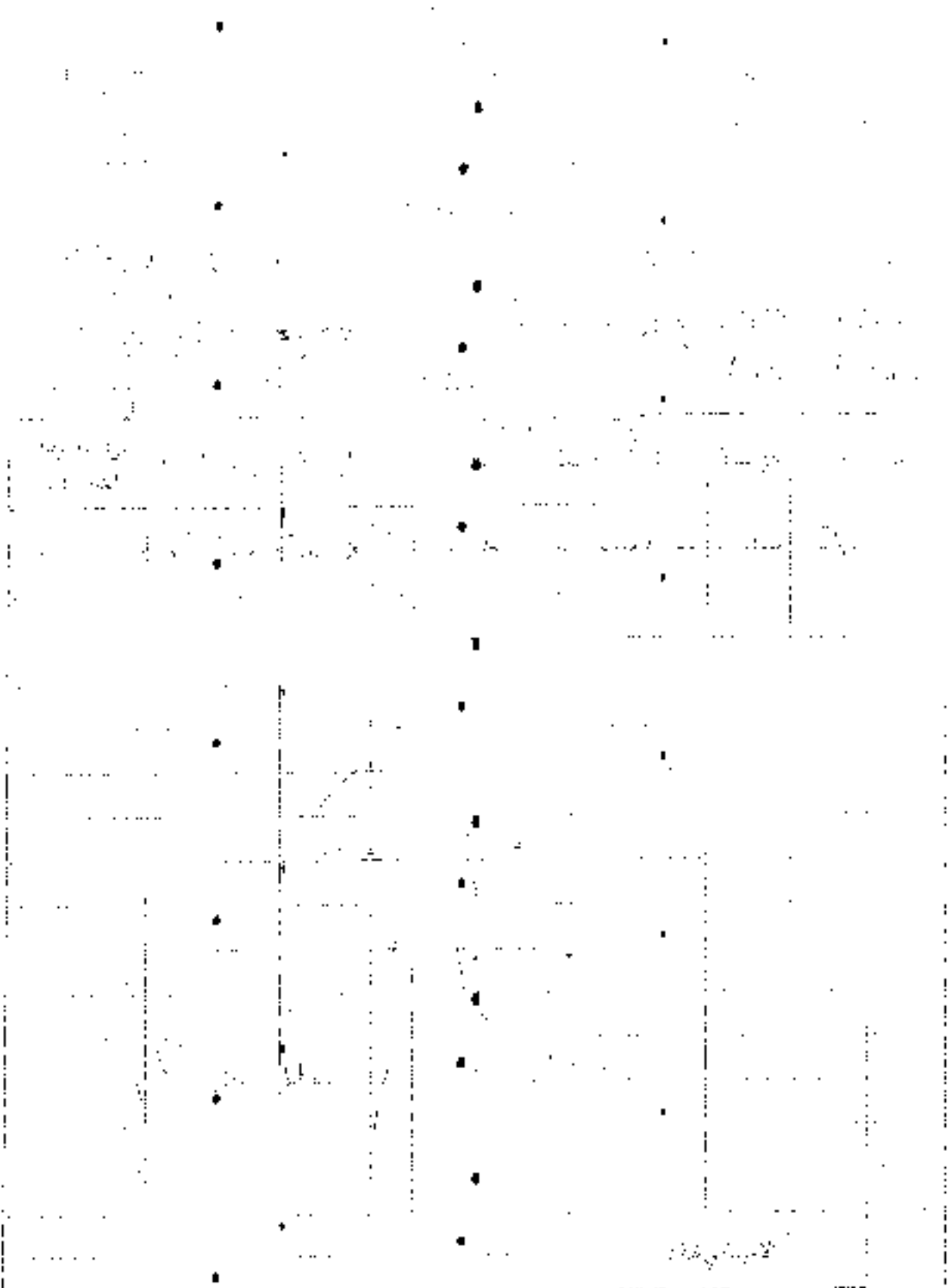
3. The third part of the paper is devoted to a discussion of the specific properties of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

[illegible]

القائمة

1. *Alfabeto*
 2. *Alfabeto*
 3. *Alfabeto*
 4. *Alfabeto*
 5. *Alfabeto*
 6. *Alfabeto*
 7. *Alfabeto*
 8. *Alfabeto*
 9. *Alfabeto*
 10. *Alfabeto*
 11. *Alfabeto*
 12. *Alfabeto*
 13. *Alfabeto*
 14. *Alfabeto*
 15. *Alfabeto*
 16. *Alfabeto*
 17. *Alfabeto*
 18. *Alfabeto*
 19. *Alfabeto*
 20. *Alfabeto*
 21. *Alfabeto*
 22. *Alfabeto*
 23. *Alfabeto*
 24. *Alfabeto*
 25. *Alfabeto*
 26. *Alfabeto*
 27. *Alfabeto*
 28. *Alfabeto*
 29. *Alfabeto*
 30. *Alfabeto*
 31. *Alfabeto*
 32. *Alfabeto*
 33. *Alfabeto*
 34. *Alfabeto*
 35. *Alfabeto*
 36. *Alfabeto*
 37. *Alfabeto*
 38. *Alfabeto*
 39. *Alfabeto*
 40. *Alfabeto*
 41. *Alfabeto*
 42. *Alfabeto*
 43. *Alfabeto*
 44. *Alfabeto*
 45. *Alfabeto*
 46. *Alfabeto*
 47. *Alfabeto*
 48. *Alfabeto*
 49. *Alfabeto*
 50. *Alfabeto*
 51. *Alfabeto*
 52. *Alfabeto*
 53. *Alfabeto*
 54. *Alfabeto*
 55. *Alfabeto*
 56. *Alfabeto*
 57. *Alfabeto*
 58. *Alfabeto*
 59. *Alfabeto*
 60. *Alfabeto*
 61. *Alfabeto*
 62. *Alfabeto*
 63. *Alfabeto*
 64. *Alfabeto*
 65. *Alfabeto*
 66. *Alfabeto*
 67. *Alfabeto*
 68. *Alfabeto*
 69. *Alfabeto*
 70. *Alfabeto*
 71. *Alfabeto*
 72. *Alfabeto*
 73. *Alfabeto*
 74. *Alfabeto*
 75. *Alfabeto*
 76. *Alfabeto*
 77. *Alfabeto*
 78. *Alfabeto*
 79. *Alfabeto*
 80. *Alfabeto*
 81. *Alfabeto*
 82. *Alfabeto*
 83. *Alfabeto*
 84. *Alfabeto*
 85. *Alfabeto*
 86. *Alfabeto*
 87. *Alfabeto*
 88. *Alfabeto*
 89. *Alfabeto*
 90. *Alfabeto*
 91. *Alfabeto*
 92. *Alfabeto*
 93. *Alfabeto*
 94. *Alfabeto*
 95. *Alfabeto*
 96. *Alfabeto*
 97. *Alfabeto*
 98. *Alfabeto*
 99. *Alfabeto*
 100. *Alfabeto*

المجلس الأعلى للبحوث والدراسات الإسلامية



The graph shows a periodic function with a period of 2 units. The function is defined by the following points: (0,0), (1,1), (2,0), (3,1), (4,0), (5,1), (6,0), (7,1), (8,0), (9,1), (10,0), (11,1), (12,0), (13,1), (14,0), (15,1), (16,0), (17,1), (18,0), (19,1), (20,0).

شركة المستقبل

11
11
PURE
PANY

النقراشنى

ديجيتال
جميع مواصفات البناء

- التاريخ
- الوقت
- مسلسل
- نوع الحمولة
- رقم السيارة
- الوزن الإجمالي
- الوزن فارغه
- الصافى :

مدينة أكتوبر - المنطقة الصناعية الثانية. محور خدمى ثانى. شارع حمادة إمام - قطعة (١) ت : ٢٨٢٢١٦٨٧

The first part of the paper
 is devoted to a general
 discussion of the problem
 and the methods used in the
 investigation.

The second part of the paper
 is devoted to a detailed
 description of the results
 obtained in the investigation.
 The third part of the paper
 is devoted to a discussion
 of the results obtained in the
 investigation.

The fourth part of the paper
 is devoted to a discussion
 of the results obtained in the
 investigation.

شركة المستقبل

**FUTURE
COMPANY**

ميراث نيسكون
٢١ ساعة
ديجيتال
جميع مواد البناء والتشييد

التقراشي

- التأسيس
- الوقاية
- المسحوق
- نوع التحويلات
- رقسم السيارة
- الوزن الانساني
- الوزن خارجي
- التأسيس

شركة المستقبل - امانة العاصمة - جوار السوق الكبير - قور حاد حاد - قنطرة - ١٨٢٥١٨٢٥

2

1900

1900

1900

1900

1900

MATERIAL INSPECTION REQUEST



Location Name		Contractor Company		Designer Company	
EET CULVERT ٥٥+٤١٥		ELFAROUK		ELRAID	
Issued by Contractor	Name	Sign	Date	Time	
Contractor Reference				Revision	
Received by ER			SNA	C1	C2
				DD	MM
CODE-1 S1 to S71 Station Reference		CODE-1 D1 to S7 Depot Reference		CODE-1 Kp XXX For kilometer point only	
				CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

Description of Materials	Steel pipe				
Location to be Used	Culvert ٥٥+٤١٥				
MAR Approval No	٢	Date			
Supplier Name					
Test Requirement	Specification		Clause		
Reference Photos	Yes attached / No		Other		
Item	Description	Unit	Quantity	Arrival Date	Note
1	Steel pipe(dia=٧٠ cm , thick=٢٢ mm)	M'	١٠٠	٢٢-٧-٢٠٢٤	
٢	Steel pipe(dia=٧٠ cm , thick=٢٢ mm)	M'	١٢٥	٢٣-٧-٢٠٢٤	
Comments by: ELRAID					
the work was inspected and found acceptable as MAR approved					
Comments by:					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	Eng. Ali				A
Contractor QA/QC	E. Abdul Dayem Ali				A
ELRAID	Hossam Hamada				
GARB*					
Employers Representative					

* Alignment/Bridges: Culvert only

A= Approved; AWC= Approved with Comments; R= Rejected

AL FAROUK

For All Your Needs & Comforts

AMM & AF

Star

تجارة وخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

الخدمات

مكتبة جامعة القاهرة
قسم المخطوطات والكتب النادرة
مكتبة جامعة القاهرة
قسم المخطوطات والكتب النادرة

مكتبة جامعة القاهرة
قسم المخطوطات والكتب النادرة

مكتبة جامعة القاهرة
قسم المخطوطات والكتب النادرة

- 1. التاريخ
- 2. الجغرافيا
- 3. الطب
- 4. الفقه
- 5. الفلسفة
- 6. الأدب
- 7. العلوم
- 8. الفنون
- 9. الرياضيات
- 10. الزراعة
- 11. التجارة
- 12. الحرف
- 13. الصناعة
- 14. الزراعة
- 15. التجارة
- 16. الحرف
- 17. الصناعة
- 18. الزراعة
- 19. التجارة
- 20. الحرف
- 21. الصناعة
- 22. الزراعة
- 23. التجارة
- 24. الحرف
- 25. الصناعة
- 26. الزراعة
- 27. التجارة
- 28. الحرف
- 29. الصناعة
- 30. الزراعة
- 31. التجارة
- 32. الحرف
- 33. الصناعة
- 34. الزراعة
- 35. التجارة
- 36. الحرف
- 37. الصناعة
- 38. الزراعة
- 39. التجارة
- 40. الحرف
- 41. الصناعة
- 42. الزراعة
- 43. التجارة
- 44. الحرف
- 45. الصناعة
- 46. الزراعة
- 47. التجارة
- 48. الحرف
- 49. الصناعة
- 50. الزراعة
- 51. التجارة
- 52. الحرف
- 53. الصناعة
- 54. الزراعة
- 55. التجارة
- 56. الحرف
- 57. الصناعة
- 58. الزراعة
- 59. التجارة
- 60. الحرف
- 61. الصناعة
- 62. الزراعة
- 63. التجارة
- 64. الحرف
- 65. الصناعة
- 66. الزراعة
- 67. التجارة
- 68. الحرف
- 69. الصناعة
- 70. الزراعة
- 71. التجارة
- 72. الحرف
- 73. الصناعة
- 74. الزراعة
- 75. التجارة
- 76. الحرف
- 77. الصناعة
- 78. الزراعة
- 79. التجارة
- 80. الحرف
- 81. الصناعة
- 82. الزراعة
- 83. التجارة
- 84. الحرف
- 85. الصناعة
- 86. الزراعة
- 87. التجارة
- 88. الحرف
- 89. الصناعة
- 90. الزراعة
- 91. التجارة
- 92. الحرف
- 93. الصناعة
- 94. الزراعة
- 95. التجارة
- 96. الحرف
- 97. الصناعة
- 98. الزراعة
- 99. التجارة
- 100. الحرف

مكتبة جامعة القاهرة - قسم المخطوطات والكتب النادرة

For Metallic Works & Contractors
Amr & Ali

SOKAR TEEL

إذن صرف مخازن

(نموذج مخازن رقم ۲)

الفاروق

عماد المعدنية والمقاولات
عمرو وعلي

التاريخ: ١٧/٥/٢٠٢٢

الفاروق

حاشیہ

صنف الموضحة أدناه صرفت إلى : المهم الخمر على السيارة رقم : ٤٦٨٧/٤٩٤

رقم بطاقة: ١٢٨٦٥٠١٩٩٤

[illegible]

مدير المخازن

المستمع

الإدارة المالية

مدير الحان
مدير الحان

الحمد لله

جمهورية مصر العربية
 وزارة التعليم العالي والبحث العلمي
 جامعة القاهرة
 كلية الهندسة
 قسم الهندسة المدنية
 ٢٠٢٠



التسمية
 التسمية

التسمية
 التسمية
 التسمية
 التسمية
 التسمية

التسمية

التسمية

THE UNIVERSITY OF CHICAGO

$$G \subset C \subseteq V \subseteq C \subseteq \mathbb{R}^n$$

نور الريم جبران

الرفعة في
الصور في

انجذابیتیں انتہائی

«...لو كان

$$x_1, \dots, x_n, z_1, \dots, z_n, x_{n+1}, \dots, x_{n+m}, z_{n+1}, \dots, z_{n+m} \in \mathbb{R}^n$$

• • • • •

 $\frac{d}{dt} \left(\frac{1}{r^2} \right) = -\frac{2}{r^3} \frac{dr}{dt}$

عدد مساجد و مزارع و مدارس و غیره ۱۹۰۵۰۰

طاهر کاوشم کہیں نہ خط

فَرْجُ الْمَرْءِ

مدير التحرير

15

مذہبِ اسلام میں ہے کہ

١٤٤٢ هـ

شركة المستقبل

#FUTURE
COMPANY

مركز المستقبل
في مدينة
الرياض
و جميع مراكز البناء والتشييد

التقارير

التمويل

الوقت

المساحة

نوع المبنى

رقم المبنى

الوزن الإجمالي

الوزن الفعلي

المساحة المبنية

مبنى ١ - المبنى المصنوع من الخرسانة المسلحة - شمس - شارع محمد السادس - الرياض - ١١٦٦١١١١

1. 35. 00

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

[illegible]

100

| Age Group | Percentage (%) |
|-----------|----------------|
| 18-29 | 65 |
| 30-49 | 75 |
| 50-69 | 85 |
| 70+ | 95 |

$$v = \frac{1}{\sqrt{\mu_0}} \left(\frac{1}{\epsilon_0} - \frac{1}{\epsilon_\infty} \right)^{-1/2}$$

[Handwritten signature]

1. Identifying the Problem
 2. Identifying the Cause
 3. Identifying the Effect
 4. Identifying the Solution
 5. Identifying the Outcome

115 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466 468 470 472 474 476 478 480 482 484 486 488 490 492 494 496 498 500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000

5. $\frac{1}{2}x - \frac{1}{3}x = \frac{1}{6}x$

$$\frac{\partial \bar{A}_i}{\partial \bar{A}_j} = \frac{\partial \bar{A}_i}{\partial A_j} \frac{\partial A_j}{\partial \bar{A}_j} = \frac{\partial \bar{A}_i}{\partial A_j} \quad (1)$$

كفرية الخيول

1-10

... 78 ...

تاریخ: ۱۳۹۸/۰۵/۰۵

شركة المستقبل

٢٠٢٢
٢٠٢٣

التقارير

تاريخ التقرير : ٢٠٢٣/٠١/٠١

- التاريخ
- الوقت
- المكان
- نوع الخدمة
- رقم السيارة
- الوزن الإجمالي
- الوزن الفردي
- الحسابات

ملاحظة : أكتوبر - المصطفى الصناعية الثانية - بنور محمد شالي شام حيا : الثانية - ٢٠٢٣/٠١/٠١

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

| | | | | | |
|---|--|---|--------------------------------|-------------------------|--|
| Location Name | | Contractor Company | | Designer Company | |
| EET- CULVET 55+415 | | EL-FAROUK | | EL RAEID | |
| Issued by Contractor | Name | Sign | Date | Time | |
| Contractor UIR Reference | | | | | Revision |
| Received by ER | | UIR | C1 | C2 | C3 |
| | | | DD | MM | YY |
| | | | HH | MM | |
| CODE-1
S1 to S21
Station Reference | CODE-1
D1 to S3
Depot Reference | CODE-1
Kp XXX
For Kilometer point only | CODE-2
Work Activity | | CODE-3
Sub Element of Activity |

EXPLANATION OF WORK TO BE INSPECTED

| | | |
|--|----------------|-------------|
| Area | Element | Item |
| 55+415 | culvert | WELDING |
| Inspection Description :
CHECK OF PIPE WELDING FOR - VENT NO 1 | | |

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

| | |
|-------------------------|-------------------------|
| Planned Inspection Date | Planned Inspection Time |
| | |

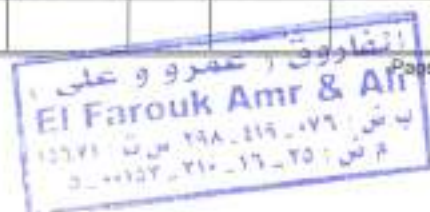
COMPLIANCE EVIDENCE Must be Included as appropriate

| | | | |
|---|--|---|---|
| Checklist Attached ☐ | Test Results Attached ☐ | Calibration Attached ☐ | Other as indicated ☐ |
| Drawing Reference | ITP Reference | MS Reference | |
| ATTACHEMENTS | REPORT OF WELDING FOR 3 rd party | | |

| | |
|--|-------------------------------------|
| Comments by: EL RAEID
the work is acceptable
(التأكد من جودة العمل) | Comments by: SYSTRA MAIN CONSULTANT |
|--|-------------------------------------|

| INSPECTION RESULT | | | | | | Approval Status | Please Tick if Not Attend |
|--------------------------|------------------|------|-------------|------|------|-----------------|---------------------------|
| Organisation | Name | Sign | Designation | Date | Time | A-AWC-R | |
| Contractor Engineer | Eng. Abdul Dayem | | | | | A | |
| EL RAEID | Hossam Elwan | | | | | A | |
| Contractor QA/QC | E. Abdul Dayem | | | | | A | |
| GARB* | | | | | | | |
| Employers Representative | | | | | | | |

File Name: UIR - Universal IR Form welding Vent 1



* Alignment: Bridges: Culvert Only

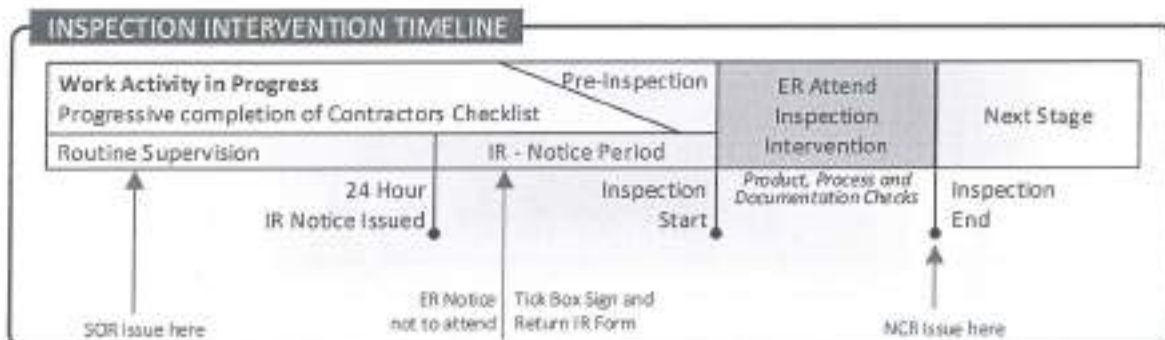
A= Approved; AWC= Approved with comments; R= Rejected

Instructions for Use:

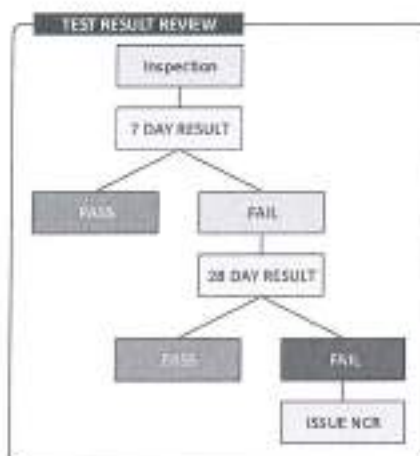
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress using full application of the comments and concurrently, the correction to the work must be completed and reinspected promptly with IR Form to achieve status Approved Without Comment, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

| | | | | | |
|--|------|---------------------------------------|------|--|----|
| Location Name | | Contractor Company | | Designer Company | |
| EET- CULVET 55+415 | | EL-FAROUK | | EL RAEID | |
| Issued by Contractor | Name | Sign | Date | Time | |
| | | | | | |
| Contractor UIR Reference | | | | Revision | |
| Received by ER | | | UIR | C1 | C2 |
| | | | | C3 | DD |
| | | | | MM | YY |
| | | | | HH | MM |
| CODE-1
S1 to S21
Station Reference | | CODE-1
D1 to D3
Depot Reference | | CODE-1
Kp XXX
For Kilometer point only | |
| | | | | CODE-2
Work Activity | |
| | | | | CODE-3
Sub Element of Activity | |

EXPLANATION OF WORK TO BE INSPECTED

| | | |
|---|----------------|-------------|
| Area | Element | Item |
| 55+415 | culvert | WELDING |
| Inspection Description:
CHECK OF PIPE WELDING FOR - VENT NO 2 | | |

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

| | |
|-------------------------|-------------------------|
| Planned Inspection Date | Planned Inspection Time |
| | |

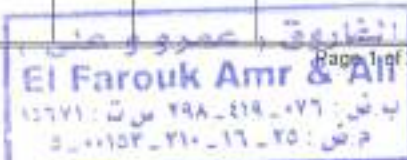
COMPLIANCE EVIDENCE Must be Included as appropriate

| | | | |
|---|--|---|---|
| Checklist Attached ☐ | Test Results Attached ☐ | Calibration Attached ☐ | Other as Indicated ☐ |
| Drawing Reference | ITP Reference | MS Reference | |
| ATTACHEMENTS | REPORT OF WELDING FOR 3 rd party | | |

| | |
|--|-------------------------------------|
| Comments by: EL RAEID | Comments by: SYSTRA MAIN CONSULTANT |
| The work is acceptable
El RAEID For Consulting Engineering
(مهندس الاستشارات الهندسية) | |

| INSPECTION RESULT | | | | | | Approval Status | Please Tick if Not Attend |
|--------------------------|--------------------|------|-------------|------|------|-----------------|---------------------------|
| Organisation | Name | Sign | Designation | Date | Time | A-AWC-R | |
| Contractor Engineer | Eng. Hossam Hamada | | | | | | |
| EL RAEID | E. Abou el dahan | | | | | | |
| Contractor QA/QC | | | | | | | |
| GARB* | | | | | | | |
| Employers Representative | | | | | | | |

File Name: UIR - Universal IR Form welding Vent 2



Page 1 of 2

* Alignment: Bridges: Green Only

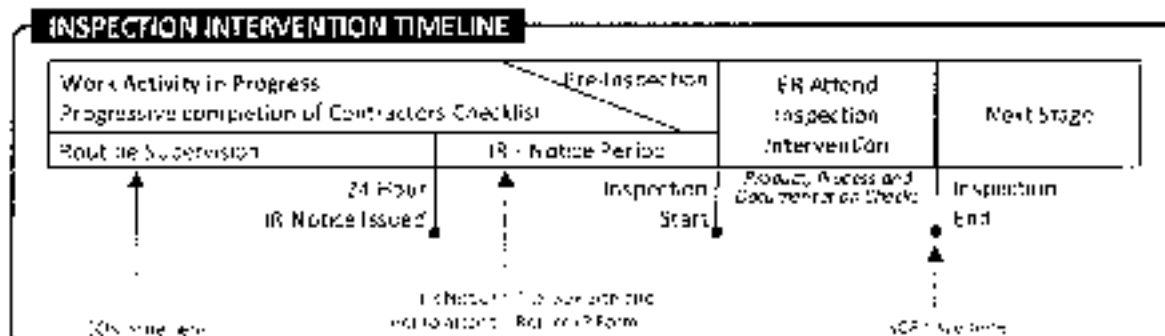
ER Approved, AWC = Approved with Comments, R = Rejected

Instructions for Use:

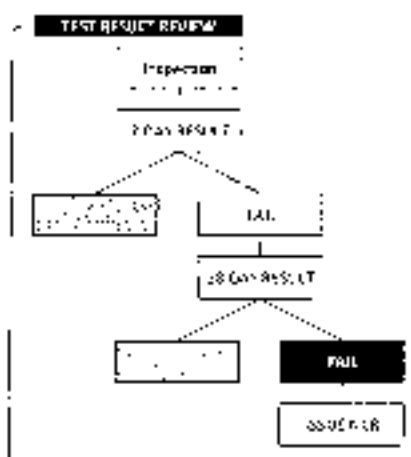
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) or possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg. minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as and when and check the Contractors supporting Drawings, Test results, Pre-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR (Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress using full annotation of the comments and concurrently, the correction to the work must be completed and reinspected promptly with IR Form to achieve status Approved Without Comment, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

| | | | | | |
|--|---------------------------------------|--|-------------------------|-----------------------------------|----------|
| Location Name | | Contractor Company | | Designer Company | |
| EET- CULVET 55+415 | | EL-FAROUK | | EL RAEID | |
| Issued by Contractor | Name | Sign | Date | Time | |
| | | | | | |
| Contractor UIR Reference | | | | | Revision |
| Received by ER | | | UIR | C1 | C2 |
| | | | | C3 | DD |
| | | | | MM | YY |
| | | | | HH | MM |
| CODE-1
S2 to S21
Station Reference | CODE-1
D1 to D3
Depot Reference | CODE-1
Ep XXX
For Kilometer point only | CODE-2
Work Activity | CODE-3
Sub Element of Activity | |

EXPLANATION OF WORK TO BE INSPECTED

| | | |
|--|----------------|-------------|
| Area | Element | Item |
| 55+415 | culvert | WELDING |
| Inspection Description :
CHECK OF PIPE WELDING FOR - VENT NO 3 | | |

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

| | |
|-------------------------|-------------------------|
| Planned Inspection Date | Planned Inspection Time |
| | |

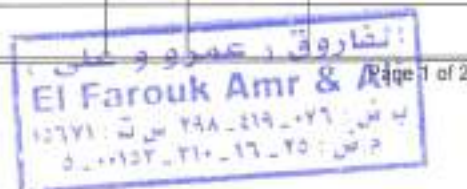
COMPLIANCE EVIDENCE Must be Included as appropriate

| | | | |
|---|--|---|---|
| Checklist Attached ☐ | Test Results Attached ☐ | Calibration Attached ☐ | Other as indicated ☐ |
| Drawing Reference | ITP Reference | MS Reference | |
| ATTACHEMENTS | REPORT OF WELDING FOR 3 rd party | | |

| | |
|-----------------------------------|-------------------------------------|
| Comments by: <i>EL RAEID</i> | Comments by: SYSTRA MAIN CONSULTANT |
| <i>the work is acceptable</i>
 | |

| INSPECTION RESULT | | | | | | Approval Status | Please Tick if Not Attend |
|--------------------------|-------------------------|--------------|-------------|------|------|-----------------|---------------------------|
| Organisation | Name | Sign | Designation | Date | Time | A-AWC-R | |
| Contractor Engineer | <i>Eng. Abdel</i> | | | | | | |
| EL RAEID | <i>Hossein Ahmed</i> | <i>HA</i> | | | | A | |
| Contractor QA/QC | <i>E. Abduljayan A.</i> | <i>Adamp</i> | | | | A | |
| GARB* | | | | | | | |
| Employers Representative | | | | | | | |

File Name: UIR - Universal IR Form welding Vent 3



* Alignment: Bridges: Culvert Only

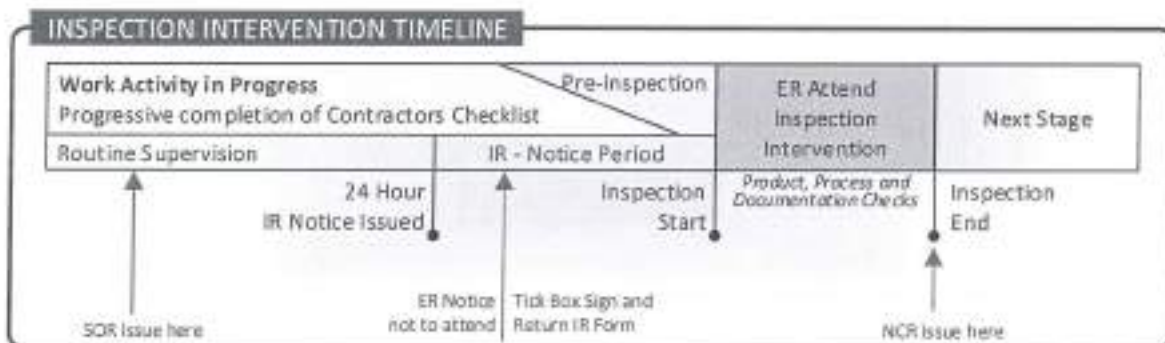
A= Approved; AWC= Approved with comments; R= Rejected

Instructions for Use:

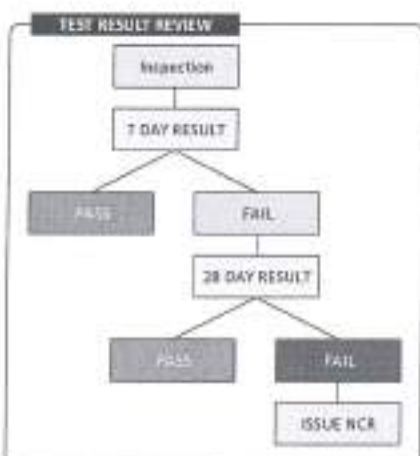
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress using full application of the comments and concurrently, the correction to the work must be completed and reinspected promptly with IR Form to achieve status Approved Without Comment, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

UNIVERSAL INSPECTION REQUEST



RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

| | | | | | |
|--|------|---------------------------------------|------|--|----|
| Location Name | | Contractor Company | | Designer Company | |
| EET- CULVET 55+415 | | EL-FAROUK | | EL RAEID | |
| Issued by Contractor | Name | Sign | Date | Time | |
| | | | | | |
| Contractor UIR Reference | | Revision | | | |
| Received by ER | | | UIR | C1 | C2 |
| | | | | C3 | OD |
| | | | | MM | YY |
| | | | | HH | MM |
| CODE-1
S1 to S21
Station Reference | | CODE-1
D1 to D3
Depot Reference | | CODE-1
Kp XXX
For Kilometer point only | |
| | | | | CODE-2
Work Activity | |
| | | | | CODE-3
Sub Element of Activity | |

EXPLANATION OF WORK TO BE INSPECTED

| | | |
|---|----------------|-------------|
| Area | Element | Item |
| 55+415 | culvert | WELDING |
| Inspection Description :
CHECK OF PIPE WELDING FOR - VENT NO 4 | | |

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

| | |
|-------------------------|-------------------------|
| Planned Inspection Date | Planned Inspection Time |
| | |

COMPLIANCE EVIDENCE Must be Included as appropriate

| | | | |
|---|--|---|---|
| Checklist Attached ☐ | Test Results Attached ☐ | Calibration Attached ☐ | Other as indicated ☐ |
| Drawing Reference | ITP Reference | MS Reference | |
| ATTACHEMENTS | REPORT OF WELDING FOR 3 rd party | | |

| | |
|---|-------------------------------------|
| Comments by: EL RAEID
<i>the work is acceptable</i>
El RAEID For Consulting Eng. | Comments by: SYSTRA MAIN CONSULTANT |
|---|-------------------------------------|

| INSPECTION RESULT | | | | | | Approval Status | Please Tick if Not Attend |
|--------------------------|-------------------------|--------------|-------------|------|------|-----------------|---------------------------|
| Organisation | Name | Sign | Designation | Date | Time | A-AWC-R | |
| Contractor Engineer | <i>Eng. Abdul Dayem</i> | | | | | | |
| EL RAEID | | | | | | | |
| Contractor QA/QC | <i>E. Abdul Dayem</i> | <i>Adapt</i> | | | | | |
| GARB* | | | | | | | |
| Employers Representative | | | | | | | |

File Name: UIR - Universal IR Form welding Vent 4

التوقيع: عمرو و علي
El Farouk Amr & Ali
باص: ٢٩٨ - ٢١٩ - ٠٢٦
ف.س: ٢٥ - ١٦ - ٢١٠ - ٠١٥٢

* Alignment: Bridges: Culvert Only

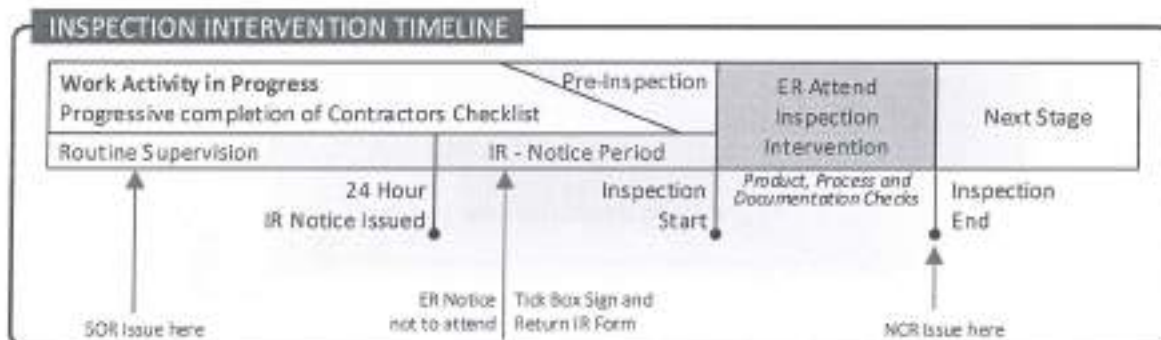
A= Approved; AWC= Approved with comments; R= Rejected

Instructions for Use:

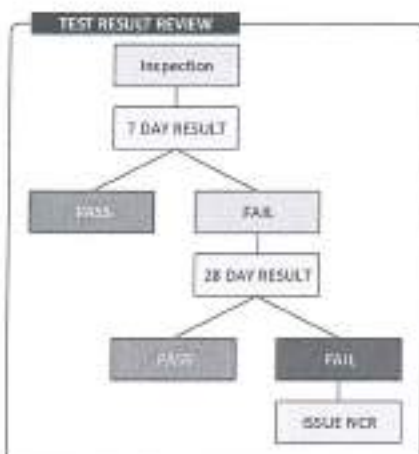
- ☐ The Contractor should continue work using their CHECKLIST of inspection items progressively
- ☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.
- ☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed
- ☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress using full application of the comments and concurrently, the correction to the work must be completed and reinspected promptly with IR Form to achieve status Approved Without Comment, or ER shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

- ☐ When Approved without comments, the next stage of work may progress



Inspection COMMENTS must be factual



Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.



Al-Noor Engineering services

Al-Noor Engineering Services

DT, NDT and Supervision Engineering

Eng./ Abdul dayem Ali



Al-Noor Engineering services

النور للخدمات الهندسية

للاختبارات الإتلافية والغير إتلافية والإشراف الهندسي

مهندس /عبدالدايم علي

TEST REPORTS

FOR VENT NO. 1

Project Name:

مشروع القطار الكهربائي السريع (العين السخنة -مطروح) - بربخ كم
(55+415)

Client:

وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري

Consultant:

مكتب سيسترا للاستشارات الهندسية

Contractor:

شركة الفاروق عمرو وعلي

AES ENGINEERING SERVICES

النور للخدمات الهندسية



Giza, El-Haram St. , El-3areesh St. , Building No. 16 , Floor 15

الجيزة - شارع الهرم -شارع العريش - عمارة رقم 16 -النور الثامن -شقة رقم 15

Mob. : (+2)01015130467 - (+2)01205666820

Email: aes.alnoor@gmail.com , Abdou_ali2011@yahoo.com



Al-Noor Engineering services

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|-------------|
| Project Name: | مشروع لتفحص اللحامات السريع (نوع السطح - ملحوظ) - برج رقم (55+415) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | AES-005-001 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 07/22/2023 |
| Contractor: | التفويض العمومي | Rev. | 0 |

| | | | | | | |
|------------------------------------|-------------------|-------------|----------------------|--------------|------|---------|
| Drp. No. | Blank/Item no. | As before | Item Type: | Blank/Item | Thu. | 21.7 mm |
| Reference Procedure Specification: | ASME BPVC | ASME BPVC | Surface Condition: | Brushed | | |
| Surface Temp. | Blank/Temp. | Blank/Temp. | Acceptance criteria: | ASME | | |
| Heat Treatment: | 1 - 300 F 1 - 450 | | Weld Process: | Weld Process | | |

| Equipment & Technique | | | | | | |
|--------------------------|------------|--------|------------------|-----------|--|----------------|
| Model: | CTS 5001 | SL No: | 145110111004 | | Manufacturer: | CTS |
| Coil type: | Weld PAPER | Probe: | Cable Type: | | 4 high Lens 10 to Lens 2 in length | |
| Basic calibration block: | | | V1(10M) V2(10W) | | Calibration block: | V1 |
| Search Unit : | | | Manufacturer: IS | | Technique : | Contact Method |
| Angle | 0 | 45 | 60 | 75 | Joint Sketch | |
| SL No: | | | | 131/107 |  | |
| Dimension: | | | | Δ23.62" | | |
| Frequency: | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | Scanning Employed From: A | |
| Range | | | | 150A to 0 | | |

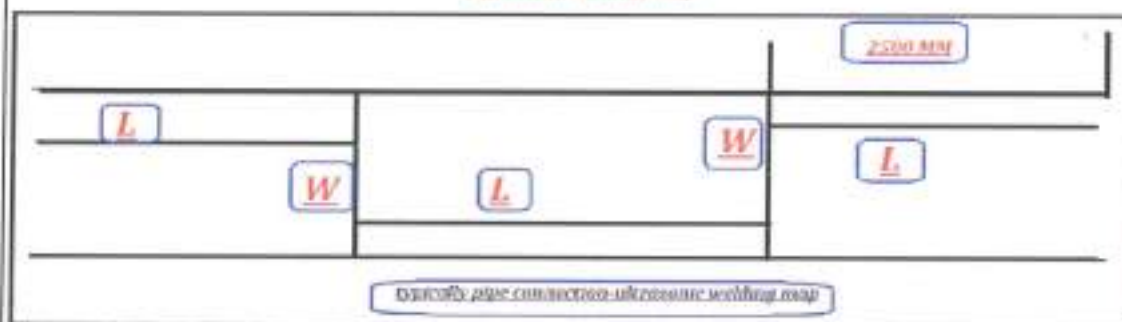
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | L 1(0-2.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 2(2.5-5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 3(5-7.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 4(7.5-10) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 5(10-12.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 6(12.5-15) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 7(15-17.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 8(17.5-20) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 9(20-22.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 10(22.5-25) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>>> As per welder certificate reported to us

Ultrasonic Welding Map



| | | | | |
|--|-----------------------------|------------------------|-----------|---|
| CR - Crack | IP - incomplete penetration | IF - incomplete fusion | SL - Slag | P - porosity |
| UP - Surface porosity | CP - Cluster Porosity | CCN - Concavity | | |
| BSR - Back stress relief | ASR - After stress relief | | | |
| ADE Inspector
Name:- Eng. Abdul Muhaimin
Level:- II
Date:-
Sign:- | | | | Approved by
Name:-
Level:-
Date:-
Sign:- |
| OTHER
Name:-
Level:-
Date:-
Sign:- | | | | |

Eng. Abdul Muhaimin Ali
GM & CEO
Al-Nadiah Engineering Services



Al-Noor Engineering Services
20, 307 and 308, Engineering
Bldg. / Al-Badaya Street /

ULTRASONIC EXAMINATION REPORT



الخدمات الهندسية
الإنشائية والبناء والتشييد
مهندسين معتمدين

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (المنطقة - حفر ج) - مدح كم (55+115) | AES Form No. | 015-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والنقل الجوي | Report No. | 025-07-002 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/10/2023 |
| Contractor: | القانون حورو وشركاه | Rev. | 0 |

| | | | | | |
|------------------------------------|------------------|----------|----------------------|--------------|---------|
| Fig. No.: | Mark/Item no. | As Is/As | Joint Type: | Units/ Other | Thk. |
| Reference Procedure Specification: | AES-07-001 | | Surface Condition: | Brushed | 22.7 mm |
| Surface Temp: | Room Temp | | Acceptance criteria: | AVS | |
| Heat Treatment: | 1 / 200°C / 1 HR | | Weld Process: | FL-307 | |

Equipment & Technique

| | | | | | |
|--------------------------|-------------|---------|---------------|--------------------|------------------------------------|
| Model: | CTS 9000 | SL No. | 54510111000 | Manufacturer: | CS&S |
| Compliment type: | Multi-PAPER | Factor: | | Cable Type: | 4 Single Lines 80 to 100 in Length |
| Basic calibration Block: | | | V10HW / V20HW | Calibration Block: | V1 |
| Search Unit: | | | Waveform: G2 | Technique: | Contact Manual |
| Angle: | 45 | 45 | 45 | Joint Sketch: | |
| SL No. | | | | | |
| Dimension: | | | 114/67 | | |
| Frequency: | | | 52"x62" | | |
| Sensitivity: | | | 2.25 MHz | | |
| Rel gate: | | | 52 | | |
| Range: | | | G2 | | |
| | | | LS40360 | | |
| | | | | | Scanning Employed: Free / A |

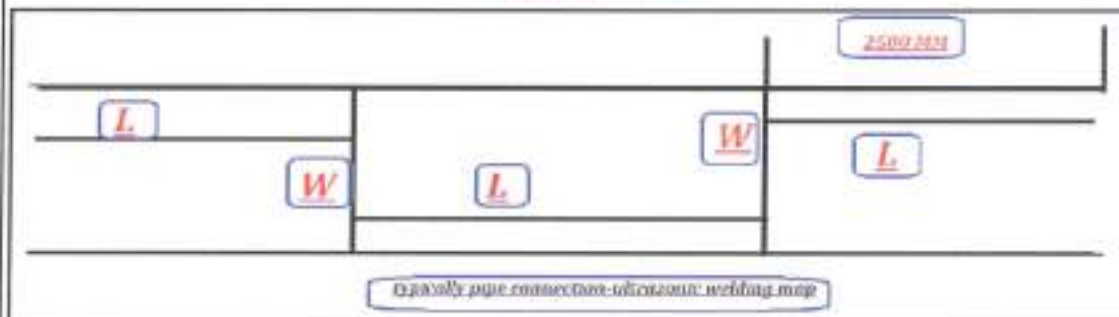
Calibration sheet attached: [] Yes [] No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | L 11(25-27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 12(27.5-30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 13(30-32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 14(32.5-35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 15(35-37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 16(37.5-40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 17(40-42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 18(42.5-45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 19(45-47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 20(47.5-50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>> As per welder certificate submitted to us.

Ultrasonic Welding Map



CR-Check IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration CP-Clare Porosity CDN-Clarity

BSR-Before stress relief ASR-After stress relief

| RDE Inspector | Agreed by | OTHER |
|----------------------------|-----------|-------|
| Name:- Eng. Abdul Mohannad | Name:- | |
| Leads:- | Leads:- | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |

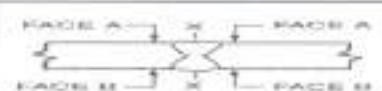
Eng. Abdul Dayem Ali
Gen & CEO
Al-Noor Engineering Services

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع الطرق الكهروميكانيكية (لبنان - منطقة - طريق - 55+415) | AES Form No. | AES-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | AES-MT-006 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2011 |
| Contractor: | القانوني عمرو وشركاه | Rev. | 0 |

| | | | | | | |
|------------------------------------|-----------------|------------|----------------------|---------------|------|---------|
| Reg. No.: | Mark/Type no. | As before | Joint Type: | Butt / Fillet | Thk. | 12.7 mm |
| Reference Procedure Specification: | | ASME B31.3 | Surface Condition: | Prepared | | |
| Surface Temp.: | Pre-weld | | Acceptance criteria: | ASME | | |
| Heat Treatment: | 1 / 200°C 1 AIR | | Weld Process: | GTAW | | |

Equipment & Technique

| Equipment & Technique | | | | | | |
|--------------------------|------------|------------------|---------------|----------|--|----------------|
| Model: | CTS 3000 | SL No. | 645100110001 | | Manufacturer: | Chaco |
| Coaxial type: | Wall PAPER | Probe | Cable Type: | | 4 Single (area 88 to 1mm) in length | |
| Basic calibration Block: | | | V300W1 V200W1 | | Calibration block: | V1 |
| Search Unit: | | Manufacturer: GE | | | Technique: | Contact Method |
| Angle | 0 | 45 | 90 | 70 | Joint Sketch | |
| SL No. | | | | 174/87 |  | |
| Dimension | | | | 62"x62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 528/240 | Scanning: Employed from A | |

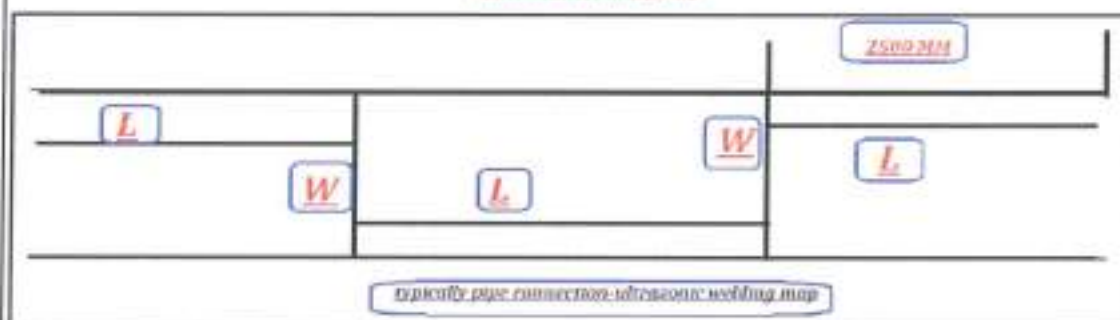
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | L 21(50-52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 22(52.5-55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 23(55-57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 24(57.5-60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 25(60-62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 26(62.5-65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 27(65-67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 28(67.5-70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 29(70-72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 30(72.5-75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S ***** As per welder certificate submitted to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion H-Hug P-Porosity

EP-Excess penetration CP-Crater Porosity CBN-Corrosion

BSR-Before stress relief ASR-After stress relief

| NDE Inspector | | Approval | OTHER |
|---------------|----------------------|----------|-------|
| Name:- | Eng. Abdul Dayem Ali | Name:- | |
| Level:- II | | Date:- | |
| Date:- | | Sign:- | |
| Sign:- | | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|-------------|
| Project Name: | مشروع لتقوية التربة (تحت السطحة - مشروع) - (55+415) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | 005/07/2014 |
| Consultant: | مكتب هندسة الاستشارات الهندسية | Date: | 17/11/2010 |
| Contractor: | القرنيل عمر و علي | Rev. | 0 |

| | | | | | | |
|------------------------------------|-----------------|-----------|----------------------|------------|-------|---------|
| Org. No.: | Mark/Issue no.: | As Issued | Joint Type: | Butt Joint | Thk.: | 22.7 mm |
| Reference Procedure Specification: | AES-07-001 | | Surface Condition: | Brushed | | |
| Surface Temp.: | Room Temp. | | Acceptance criteria: | ASNT | | |
| Heat Treatment: | 1 / SRG (-) ASR | | Weld Process: | ES-001 | | |

Equipment & Technique

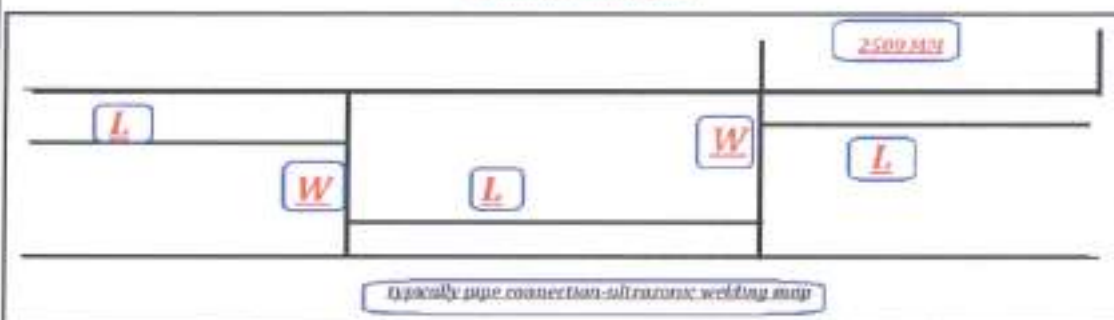
| | | | | | |
|--------------------------|------------|---------------|-------------|--------------------------------------|--------------|
| Model: | CT-1000 | SL No.: | 54010011004 | Manufacturer: | Omni |
| Coil type: | Wall PAPER | Probe: | | 4 Single Lens 80 to 100 mm in Length | |
| Basic calibration Block: | | Frequency: | 2.25 MHz | Calibration Block: | V1 |
| Search Unit: | | Manufacturer: | ED | Technique: | Cast Manual |
| Angle: | 0 | 60 | 60 | 70 | Joint Sketch |
| SL No.: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |

Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | L 31(75-77.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 32(77.5-80) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 33(80-82.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 34(82.5-85) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 35(85-87.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 36(87.5-90) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 37(90-92.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 38(92.5-95) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 39(95-97.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 40(97.5-100) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |

Remarks: A.P.W.C.S >>> As per welder certificate submitted to us.

Ultrasonic Welding Map

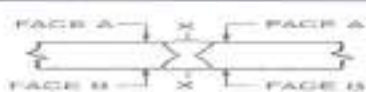
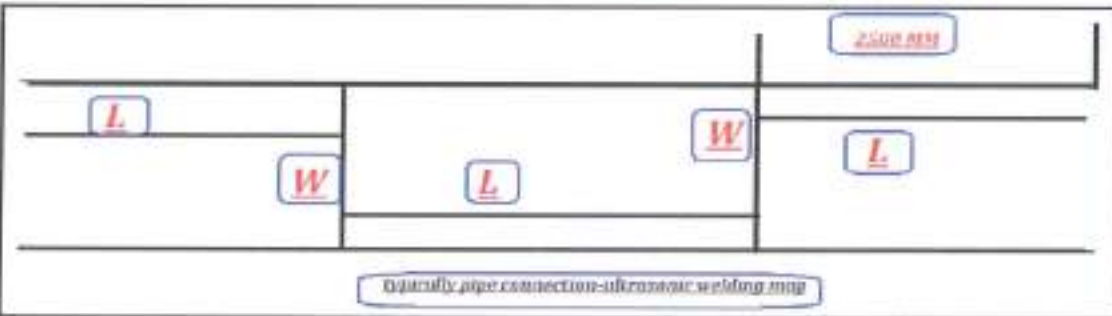


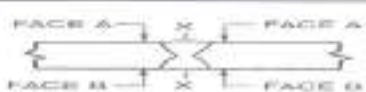
CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

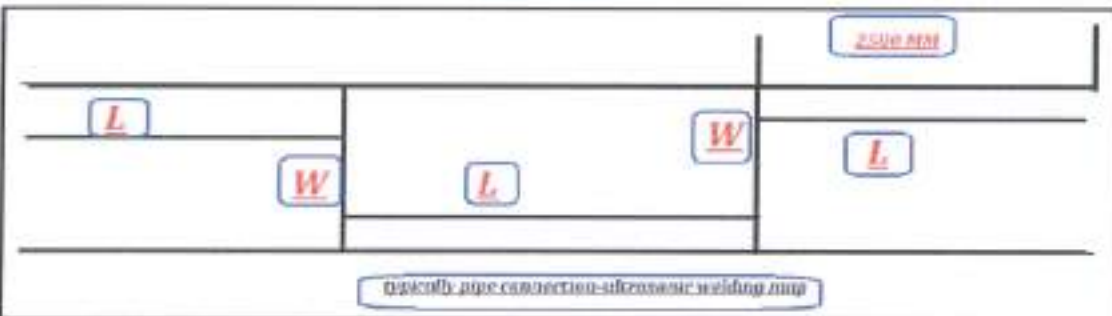
EP-Excess penetration CP-Crater Porosity EDM-Discontinuity

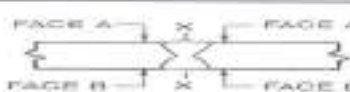
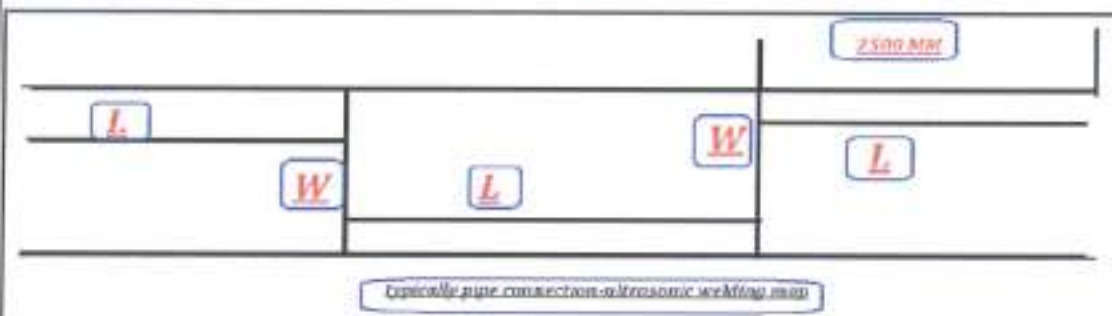
BSR-Before stress relief ASR-After stress relief

| AEI Inspector | Approved by | OTHER |
|------------------------------|----------------------------|-------|
| Name: Eng. Abdul Aziz Hakeem | Name: Eng. Abdul Dayem Ali | Name: |
| Level: II | GM & CEO | |
| Date: | Date: | Date: |
| Sign: | Sign: | Sign: |

| 
Al Neer Engineering Services
ST, SST and Operations Engineering
Reg. # 1000142000 | | ULTRASONIC EXAMINATION REPORT | | 
AES Form No. AES-F-0006
١٥٥٤٦١٠٠٠٠
١٧/١١/٢٠٢٣ | |
|--|--|---|--|---|--|
| Project Name: | | مشروع الغاز الكهرش السريع (المنطقة المطروح) - برج كم (55+415) | | AES Form No. AES-F-0006 | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري | | Report No. 105461000 | |
| Consultant: | | مكتب ميسرا للاستشارات الهندسية | | Date: 17/11/2023 | |
| Contractor: | | للأعمال المدنية والبناء | | Rev: 0 | |
| Ref. No.: | | Mark/Item no.: | | Joint Type: | |
| Reference Procedure Specification: | | ASME B31.3 | | Joint Status: | |
| Surface Temp.: | | ASME | | Surface Condition: | |
| Heat Treatment: | | 1 / SPR 1 / ASB | | Acceptance criteria: | |
| | | | | Weld Process: | |
| | | | | Thk: 22.7 mm | |
| | | | | Result: Pass | |
| Equipment & Technique | | | | | |
| Model: | | SL No.: | | Manufacturer: | |
| Cable type: | | Cable Type: | | 4 Single Lines 10 to 12 mm in length | |
| Basic calibration Block: | | V1 (BW) V2 (BW) | | Calibration Method: | |
| Search Unit: | | Manufacturer: GE | | Technique: | |
| Angle: | | 70 | | Joint Sketch: | |
| SL No.: | | 131/67 | |  | |
| Dimension: | | 42x42" | | FACE 2 | |
| Frequency: | | 3.25 MHz | | FACE 1 | |
| Sensitivity: | | 52 | | FACE 3 | |
| Ref gain: | | 52 | | FACE 4 | |
| Range: | | 1500/200 | | Scanning Employed From: A | |
| Calibration sheet attached: ☐ Yes ☒ No | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | |
| | | Welder ID | | % of inspection | |
| | | | | Evaluation / mm | |
| | | | | Type | |
| | | | | Length | |
| | | | | Depth | |
| | | | | Result | |
| Vent 1 | | W 1(2.5) | | 22.7 mm | |
| | | W2(5) | | 22.7 mm | |
| | | W3(7.5) | | 22.7 mm | |
| | | W4(10) | | 22.7 mm | |
| | | W5(12.5) | | 22.7 mm | |
| | | W6(15) | | 22.7 mm | |
| | | W 7(17.5) | | 22.7 mm | |
| | | W8(20) | | 22.7 mm | |
| | | W9(22.5) | | 22.7 mm | |
| | | W10(25) | | 22.7 mm | |
| Remarks: | | A.P.W.C.S. as per welder certificate submitted to us. | | | |
| Ultrasonic Welding Map | | | | | |
|  | | | | | |
| Legend | | | | | |
| CR-Crack IP-Incomplete penetration IP-Incomplete Fusion SL-Slag P-Porosity
CP-Cavities penetration CP-Cavities Porosity CON-Contamination
BSR-Buried stress relief ASB-After stress relief | | | | | |
| NDE Inspector | | Approved by | | OTHER | |
| Name: Eng. Abdul Wahid Mohamed | | Name: Eng. Dayem Ali | | Name: | |
| Level: B | | Signature: CM & CEO | | Signature: | |
| Date: | | Date: | | Date: | |
| Sign: | | Sign: | | Sign: | |

| 
<small>Abdul Engineering Services</small>
<small>Abdul Engineering Services</small>
<small>ذ.م.ش. ٢٠١٧ وأبديا لخدمات الهندسة</small>
<small>Eng. Abdul Bayem Ali</small> | | ULTRASONIC EXAMINATION REPORT | | 
<small>Abdul Engineering Services</small>
<small>Abdul Engineering Services</small>
<small>ذ.م.ش. ٢٠١٧ وأبديا لخدمات الهندسة</small>
<small>Eng. Abdul Bayem Ali</small> | | | | | | | | | | | | | |
|--|--|--|--|--|--|-----------|--|-----------------|--|-----------------|--|--------|--|-------|--|------|--|
| Project Name: | | مشروع القطار الكهربائي السريع (العين السخنة - مطروح) - برج ١٥ (55+415) | | AES Form No. : AES-F-006 | | | | | | | | | | | | | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري | | Report No. : AES-07-006 | | | | | | | | | | | | | |
| Consultant: | | مكتب مهندسي استشارات الهندسية | | Date: 17/11/2023 | | | | | | | | | | | | | |
| Contractor: | | الفرافى بحري وشركاه | | Rev: 0 | | | | | | | | | | | | | |
| Drig. No.: | | Mark/Item no. : 14 before | | Joint Type: Butt / Lap | | | | | | | | | | | | | |
| Reference Procedure Specification: | | AES-07-006 | | Surface Condition: Smooth | | | | | | | | | | | | | |
| Surface Temp: | | Room Temp | | Acceptance criteria: ASNT | | | | | | | | | | | | | |
| Heat Treatment: | | 1 / 1850 / 1 ASB | | Weld Process: FCAW | | | | | | | | | | | | | |
| Equipment & Technique | | | | | | | | | | | | | | | | | |
| Model: CT1000 | | SL No: 52550114094 | | Manufacturer: Onda | | | | | | | | | | | | | |
| Couplant type: Water / GEL | | Cable Type: V210W / Y210W | | 4 Single Lame 00 to Lame 1 to Length | | | | | | | | | | | | | |
| Basic calibration Block: | | V210W / Y210W | | Calibration block: Y1 | | | | | | | | | | | | | |
| Search Unit: | | Manufacturer: GI | | Technique: Contact Manual | | | | | | | | | | | | | |
| Angle: 0 | | 45 | | Joint Sketch | | | | | | | | | | | | | |
| SL No | | 45 | |  | | | | | | | | | | | | | |
| Frequency | | 2.25 MHz | | | | | | | | | | | | | | | |
| Sensitivity | | 52 | | | | | | | | | | | | | | | |
| Ref gain | | 52 | | | | | | | | | | | | | | | |
| Range | | 1100/140 | | | | | | | | | | | | | | | |
| Calibration chart attached: | | [] Yes [] No | | Scanning Employed From: A | | | | | | | | | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | | Welder ID | | % of Inspection | | Evaluation / mm | | Result | | | | | |
| | | | | | | | | | | Type | | Length | | Depth | | | |
| Vent 1 | | W 11(27.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W12(30) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W13(32.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W14(35) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W15(37.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W16(40) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W 17(42.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W18(45) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W19(47.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| | | W120(50) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | | | | | Acc. | |
| Remarks: | | A.P.W.C.S > > > As per welder certificate reported is ok. | | | | | | | | | | | | | | | |
| Ultrasonic Welding Map | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |
| <small>CR-Crack IF-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity</small>
<small>EP-Excess penetration CP-Cluster Porosity COM-Concavity</small>
<small>BSR-Before stress relief ASR-After stress relief</small> | | | | | | | | | | | | | | | | | |
| NDE Inspector | | | | Approved by | | | | OTHER | | | | | | | | | |
| Name:- Eng. Abdul Bayem Ali | | | | Name:- | | | | | | | | | | | | | |
| Level:- B | | | | Date:- 01/11/2023 | | | | Date:- | | | | | | | | | |
| Date:- | | | | Date:- | | | | Date:- | | | | | | | | | |
| Sign:- | | | | Sign:- | | | | Sign:- | | | | | | | | | |

| 
AES Engineering Services
Oil, Gas and Infrastructure Engineering
Eng. Abdul Deyar Ali | | <h1>ULTRASONIC EXAMINATION REPORT</h1> | | 
AES Engineering Services
الخدمات الهندسية والبنية التحتية والنفط والغاز
الهندسة والبنية التحتية | | | | |
|---|------------|--|-----------|--|-----------------|--------|-------|--------|
| Project Name: | | مشروع الغاز الكهربائي السريع والبنية التحتية - طريق 1 - (55+415) | | AES Form No. : | | | | |
| Owner: | | وزارة النقل - الهيئة العامة للغاز والكهرباء والنقل البحري | | Report No. : | | | | |
| Consultant: | | مكتب مهندسي الاستشارات الهندسية | | Date: | | | | |
| Contractor: | | الفرانك جبرو و شري | | Rev. : | | | | |
| Doc. No. : | | Mark/Issue No. : | | Joint Type: | | | | |
| Reference Procedure Specification: | | ASNT SNT-BC-101 | | Surface Condition : | | | | |
| Surface Temp. : | | Room Temp. | | Acceptance criteria : | | | | |
| Heat Treatment: | | 1. 300°C 1 HR | | Weld Process : | | | | |
| <h3>Equipment & Technique</h3> | | | | | | | | |
| Model: | | SL No. : | | Manufacturer: | | | | |
| Couplant type: | | Cable Type: | | 4 Single Lens 80 to 1000 L in Length | | | | |
| Wet PAPER | | Pasta | | Calibration block: | | | | |
| Basic calibration Block: | | V1(BW) V2(HF) | | Technique : | | | | |
| Search Unit: | | Manufacturer: GE | | Contact Material: | | | | |
| Angle : | | 45 | | Joint Sketch | | | | |
| SL No. : | | 134/97 | |  | | | | |
| Dimension : | | 82"x62" | | | | | | |
| Frequency : | | 2.25 MHz | | | | | | |
| Sensitivity : | | 12 | | | | | | |
| Ref gain : | | 52 | | | | | | |
| Range : | | 1000mm | | Scanning Begined From: A | | | | |
| Calibration sheet attached: ☒ Yes ☐ No | | | | | | | | |
| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
| | | | | | Type | Length | Depth | |
| Vent 1 | W 21(52.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W22(55) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W23(57.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W24(60) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W25(62.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W26(65) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W 27(67.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W28(70) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W29(72.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W30(75) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| Remarks: | | A.P.W.C.S >>> As per welder certificate submitted to us. | | | | | | |
| <h3>Ultrasonic Welding Map</h3>  <p>Typically pipe connection-ultrasonic welding map</p> | | | | | | | | |
| CR- Crack IP- Incomplete penetration IR- Incomplete Fusion SL- Slag P- porosity
EP- Excess penetration CP- Cluster Porosity CDN- Concavity
BRB- Bulge stress relief ASB- After stress relief | | | | | | | | |
| RDE Inspector | | | | | OTHER | | | |
| Name:- Eng. Abdul Deyar Ali | | | | | Name:- | | | |
| Level:- II | | | | | Date:- | | | |
| Date:- | | | | | Date:- | | | |
| Sign:- | | | | | Sign:- | | | |

| 
AES Engineering Services
40 New England Hwy, Suite 100
EE, 01915 and Supervision Engineering
Inc. / Model 40000-101 | | ULTRASONIC EXAMINATION REPORT | | 
AES Engineering Services
40 New England Hwy, Suite 100
EE, 01915 and Supervision Engineering
Inc. / Model 40000-101 | |
|---|--|---|--|---|--|
| Project Name: | | مشروع تطوير الترميم السريع (تتمتع نسخة بطرح) - برج 55+115 | | AES Form No: | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري | | Report No: | |
| Consultant: | | مكتب ميسرا للاستشارات الهندسية | | Date: | |
| Contractor: | | القرولي عمر و علي | | Rev: | |
| Dr. No: | | Mark/Item no: | | Joint Type: | |
| Reference Procedure Specification: | | ASNT SNT-305 | | Surface Condition: | |
| Surface Temp: | | Room Temp | | Acceptance criteria: | |
| Heat Treatment: | | 2 / 1850 / 1 / AIR | | Weld Process: | |
| Thk: | | 32.7 mm | | Rev: | |
| Equipment & Technique | | | | | |
| Model: | | SL No: | | Manufacturer: | |
| Complaint type: | | Cable Type: | | 4 Single Sawn 00 to Sawn 1 in Length | |
| Weld PAPER: | | Basic (calibration) Block: | | Calibration block: | |
| Search Unit: | | Manufacturer: GE | | Technique: | |
| Angle: | | 76 | | Contact Manual | |
| SL No: | | 134/67 | | Joint Sketch | |
| Dimension: | | 62"x42" | |  | |
| Frequency: | | 3.25 MHz | | Scanning Employed from : A | |
| Sensitivity: | | 52 | | | |
| Ref gain: | | 52 | | | |
| Range: | | 1588300 | | | |
| Calibration sheet attached: ☒ Yes ☐ No | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | |
| | | Welder ID | | % of Inspection | |
| | | | | Evaluation / mm | |
| | | | | Type Length Depth | |
| Vent 1 | | W 31(77.5) | | 22.7 mm | |
| | | W32(80) | | 22.7 mm | |
| | | W33(82.5) | | 22.7 mm | |
| | | W34(85) | | 22.7 mm | |
| | | W35(87.5) | | 22.7 mm | |
| | | W36(90) | | 22.7 mm | |
| | | W 37(92.5) | | 22.7 mm | |
| | | W38(95) | | 22.7 mm | |
| | | W39(97.5) | | 22.7 mm | |
| | | W39(100) | | 22.7 mm | |
| Remarks: A.P.W.C.S. > > > As per welder certificate reported to us. | | | | | |
| Ultrasonic Welding Map | | | | | |
|  | | | | | |
| CR-Crack IF-Incomplete penetration IP-Incomplete Fusion SL-Slag P-porosity
EP-Excess penetration CP-Cluster Penetration COW-Consistency
BSR-Before stress relief ASR-After stress relief | | | | | |
| SDE Inspector | | Approved by | | OTHER | |
| Name: Eng. Abdul Wahab Hakeem | | Name: | | Name: | |
| Level: B | | Level: | | Level: | |
| Date: | | Date: | | Date: | |
| Sign: | | Sign: | | Sign: | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطر الكهربائي السريع (المنطقة - مشروع -) (55+415) | AES Form No. | AES-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والتكامل | Report No. | AES-UT-005 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 4/3/2024 |
| Contractor: | لتقارب حور و علي | Rev: | 0 |

| | | | |
|------------------------------------|-----------------|----------------------|-------------|
| Ref. No.: | Mark/Item no.: | Label Type: | Thick: |
| Reference Procedure Specification: | 445-075-001 | Surface Condition: | 22.7 mm |
| Surface Temp: | 445-075-001 | Acceptance criteria: | 445-075-001 |
| Heat Treatment: | 1 / 445-075-001 | Weld Process: | 445-075-001 |

Equipment & Technique

| | | | | | |
|--------------------------|-----------|------------------|--------------|--------------------------------------|----------------|
| Model: | CEI 1000 | SL No.: | 547040341004 | Manufacturer: | China |
| Couplant type: | Wax PAPER | Probe: | | 4 Single Lens 80 to Lens 3 in Length | |
| Basic calibration Block: | | V1(0W) V2(10W) | | Calibration Block: | V1 |
| Search Unit: | | Manufacturer: GE | | Technique: | Contact Method |
| Angle: | 45 | 45 | 70 | Joint Sketch: | |
| SL No: | | | 134/67 | | |
| Dimensions: | | | 62x62 | | |
| Frequency: | | | 2.25 MHz | | |
| Sensitivity: | | | 52 | | |
| Ref gain: | | | 52 | | |
| Range: | | | 1300360 | | |

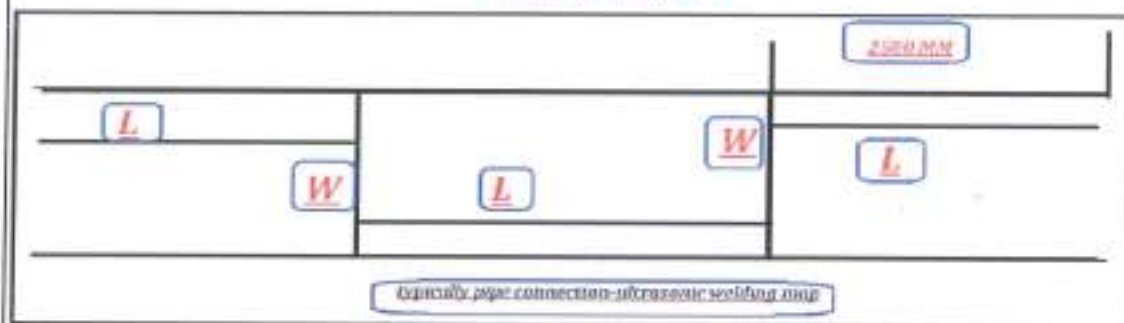
| | | |
|-----------------------------|-----|----|
| Calibration check attached: | Yes | No |
|-----------------------------|-----|----|

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | Result |
|---------------|-----------------|-----------|-----------|-----------------|-----------------|--------|
| Type | Length | Depth | | | | |
| Vent 1 | L 41(100-102.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 42(102.5-105) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 43(105-107.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 44(107.5-110) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 45(110-112.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 46(112.5-115) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 47(115-117.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 48(117.5-120) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 49(120-122.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 50(122.5-125) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |

Remarks:-

A.P.W.C.S - As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Escort penetration GP-Cluster Porosity CPN-Corrosion

BSR-Before stress relief ASR-After stress relief

| | | |
|-----------------------------|-------------|-------|
| MSE Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Muhaimmed | Name:- | |
| Level:- II | Level:- | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |

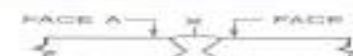
Eng. Abdul Dayem Ali
GM & CEO
Al-Mohr Engineering Services

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (تحت السطحة - أطروح) - برج رقم (53+135) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - هيئة الطرق والكباري والنقل البري | Report No. | AES-UT-009 |
| Consultant: | مكتب مستشاري الاستشارات الهندسية | Date: | 12/9/2024 |
| Contractor: | الشارع عمر و علي | Rev. | 0 |

| | | | | | | |
|------------------------------------|------------------------|-----------------|----------------------|---------------|------|---------|
| Weld No.: | Mark/Item no.: | As before | Joint Type: | Butt / Fillet | Th.: | 22.7 mm |
| Reference Procedure Specification: | | ASME VIII Div 1 | Surface Condition: | Quoted | | |
| Surface Temp: | Base Temp: | | Acceptance criteria: | | | |
| Heat Treatment: | (/) Pre / (/) Post | | Weld Process: | | | |

Equipment & Technique

| | | | | | | |
|--------------------------|-------------|---------|------------------|-------------|--|----------------|
| Model: | UT3000 | SL No.: | 34000101000 | | Manufacturer: | Chauvin |
| Couplant type: | Water PAPER | Probe: | Cable Type : | | 4 Single Lens Probe Lens 3 in Length | |
| Basic calibration Block: | | | VL(HW) / V2(HH) | | Calibration block: | V1 |
| Search Unit : | | | Manufacturer: GI | | Technique : | Contact Manual |
| Angle | 10 | 40 | 60 | 70 | Joint Sketch | |
| SL No. | | | | 134/67 |  | |
| Dimension | | | | .82" x .62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 1,500,000 | Scanning Employed Team :A | |

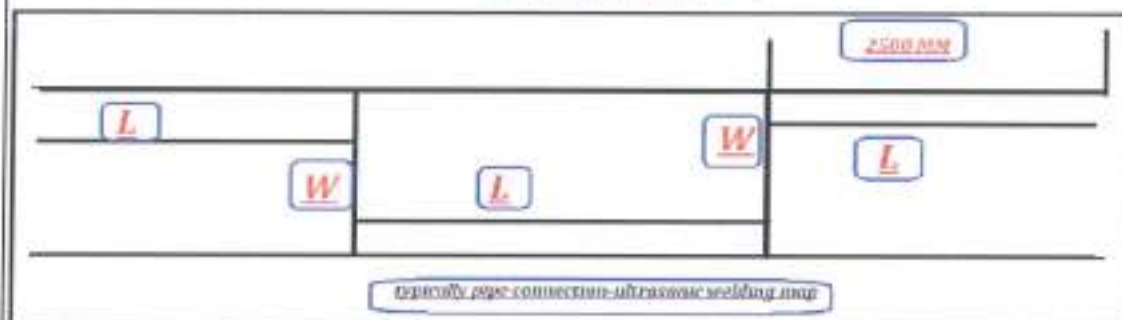
Calibration sheet attached: (/) Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | L51(125-127.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L52(127.5-130) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L53(130-132.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L54(132.5-135) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L55(135-137.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L56(137.5-140) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L57(140-142.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L58(142.5-145) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L59(145-147.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L60(147.5-150) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S 100% As per welder certifies reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag Penetration

EP-Excess penetration GP-Cluster Porosity CBW-Cavitation

BSD-Before stress relief ASW-After stress relief

| | | |
|--------------------------------|----------------------------|-------|
| NDE Inspector | Approved by | OTHER |
| Name: Eng. Abdul Wahid Mohamed | Name: Eng. Abdul Dayem Ali | Name: |
| Level: II | Level: CM & CEO | |
| Date: | Date: | Date: |
| Sign: | Sign: | Sign: |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع إنشاء الكهربي السريع (المنطقة - مطروح) - برج 55+515 | AES Form No. | AES-0100 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والكباري والنقل الجوي | Report No. | AES-UT-013 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 4/26/2024 |
| Contractor: | القرارة محمد وعلي | Rev. | 0 |

| | | | | | | |
|------------------------------------|------------------|-----------|----------------------|-------------|------|---------|
| Eng. No.: | Mark/Steps no.: | As before | Joint Types: | Butt / 2010 | Thk: | 22.7 mm |
| Reference Procedure Specification: | ASNT-CP-103 | | Surface Condition: | Prep. 100% | | |
| Surface Temp: | Room Temp | | Acceptance criteria: | ASNT | | |
| Heat Treatment: | 1 / 3000 / 1.550 | | Weld Process: | FL200 | | |

Equipment & Technique

| | | | | | | |
|--------------------------|-------------|------------------|-----------------|------------|--|----------------|
| Model: | CT1000 | SL No: | 01733311004 | | Manufacturer: | Omni |
| Couplant type: | Water Paper | Probe: | Cable Type: | | 4 Single Lanes 90 to 1000 L in length | |
| Basic calibration Block: | | | V1(10V) V2(10V) | | Calibration block: | V1 |
| Search Unit: | | Manufacturer: GE | | Technique: | | Contact Manual |
| Angle | 0 | 65 | 90 | 75 | <div>Joint Sketch</div>  | |
| SL No | 034/07 | | | | | |
| Dimension | Ø2"x.62" | | | | | |
| Frequency | 2.25 MHz | | | | | |
| Sensitivity | S2 | | | | | |
| Ref gain | S2 | | | | <div>Scanning Enclosed From: A</div> | |
| Range | 1100.398 | | | | | |

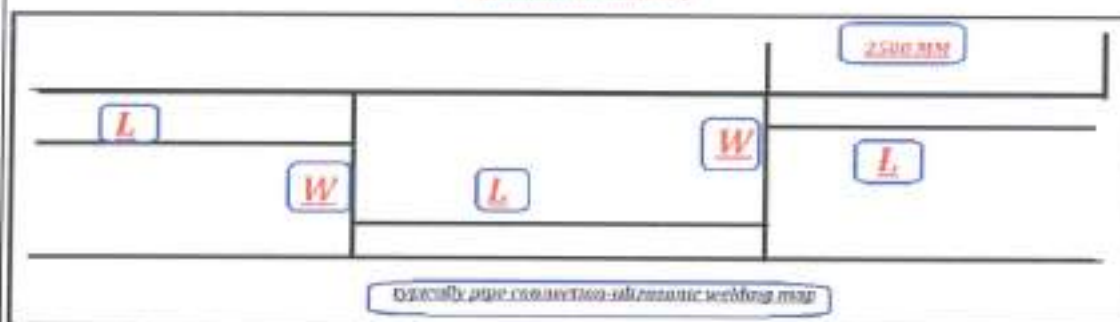
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 1 | W 41(102.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W42(105) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W43(107.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W44(110) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W45(112.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W46(115) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 47(117.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W48(120) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W49(122.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W50(125) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S 100% As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration CP-Cluster Porosity CEN-Consistency

BSS-Bottom stress relief ASS-After stress relief

| | | |
|---------------------------------|-------------|--------|
| NDE Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Wahid Mohamed | Signature | Name:- |
| Level:- II | Level:- | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (لحده منطقة - طريق - 33+41.5) | AES Form No. | AES-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | 001-UT-012 |
| Consultant: | مكتب سينترا للاستشارات الهندسية | Date: | 4/9/2023 |
| Contractor: | القانوني عمر و علي | Rev. | 0 |

| | | | | |
|------------------------------------|----------------------|--------------------|-----------|-------------|
| Drp. No.: | Mark/Item no.: | Joint Type: | Thk.: | Int. J. no. |
| Reference Procedure Specification: | AES-UT-009 | Surface Condition: | Prepared: | |
| Surface Temp.: | Acceptance criteria: | Weld Process: | FLAW: | |
| Heat Treatment: | (/ 1833) / AS | | | |

Equipment & Technique

| | | | |
|--------------------------|------------------|---------------------------------------|----------------|
| Model: | ST No.: | Manufacturer: | Chk.: |
| Couplant type: | Cable Type: | 4 Single Lame (0 to Lame 1 in Length) | |
| Basic calibration Block: | VII(10W) Y2(10W) | Calibration block: | VL |
| Search Unit: | Manufacturer: CR | Technique: | Contact Manual |
| Angle: | St. No.: | Joint Sketch: | |
| St. No.: | 134/67 | | |
| Orientation: | 62°x32° | | |
| Frequency: | 2.25 MHz | | |
| Sensitivity: | 52 | | |
| Ref gain: | 52 | | |
| Range: | 1500-300 | Scanning Employed From: A | |

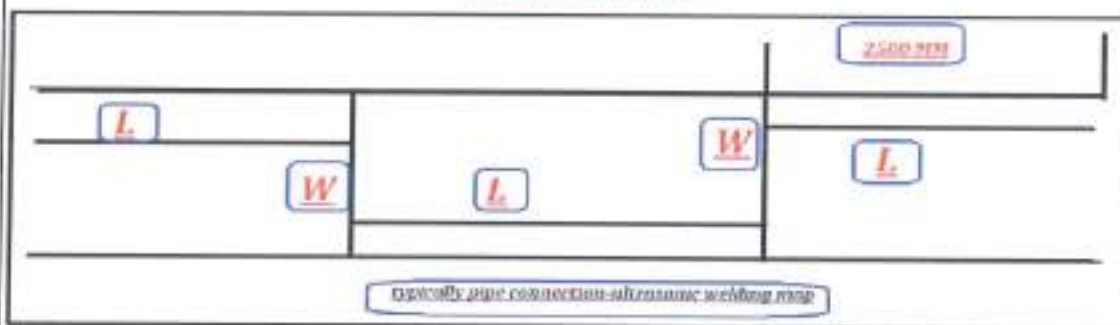
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evolution / mm | Result |
|---------------|-------------|-----------|-----------|-----------------|----------------|--------|
| Type | Length | Depth | | | | |
| Vent 1 | W 51(127.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W52(130) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W53(132.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W54(135) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W55(137.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W56(140) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 57(142.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W58(145) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W59(147.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |

Remarks:

A.P.W.C.S >>> As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Gases penetration CP-Cluster Porosity CON-Cavities

BSB-Before stress relief ASB-After stress relief

| NDE Inspector | Approved by | OTHER |
|---------------------------------|-------------|---------|
| Name:- Eng. Abdulrahman Mohamed | Name:- | Name:- |
| Level:- II | Level:- | Level:- |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |



Al-Noor Engineering services

Al-Noor Engineering Services

DT, NDT and Supervision Engineering

Eng./ Abdul dayem Ali



Al-Noor Engineering services

التور للخدمات الهندسية

للإختبارات الإتلافية والغير إتلافية والإشراف الهندسي

مهندس /عبدالدايم علي

TEST REPORTS

FOR VENT NO.2

Project Name:

مشروع القطار الكهربائي السريع (العين السخنة -مطروح)- بربخ كم
(55+415)

Client:

وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري

Consultant:

مكتب سيسترا للاستشارات الهندسية

Contractor:

شركة الفاروق عمرو وعلي

AES ENGINEERING SERVICES

التور للخدمات الهندسية



Al-Noor Engineering services

Giza, El-Haram St. , El-Jareesh St. , Building No. 16 , Floor 15

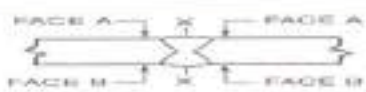
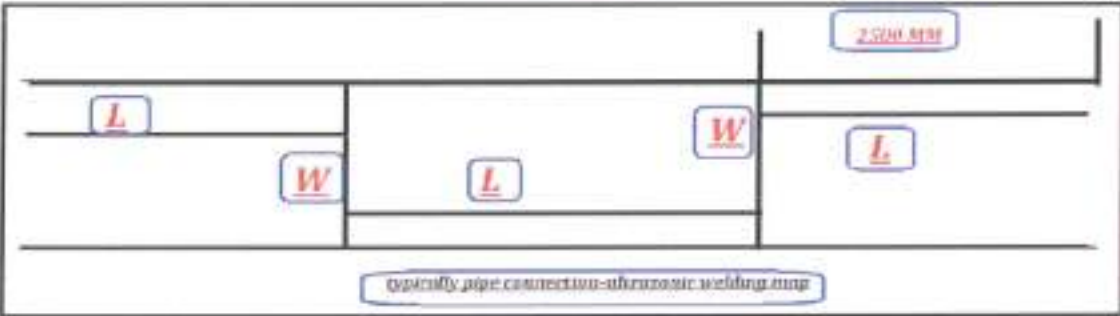
الجيزة - شارع الهرم -شارع العريش - عمارة رقم 16 -الدور الثامن -شقة رقم 15

Mob. : (+2)01015130467 - (+2)01205666820

Email: aes.alnoor@gmail.com , Abdou_ali2011@yahoo.com



Al-Noor Engineering services

| 
AES Engineering Services
40 West Endbrook Way, Suite 100, 100 West Endbrook Way, Suite 100
Tel: +966 11 4500 0000 | | ULTRASONIC EXAMINATION REPORT | | 
AES Engineering Services
40 West Endbrook Way, Suite 100, 100 West Endbrook Way, Suite 100
Tel: +966 11 4500 0000 | |
|--|--|---|--|--|--|
| Project Name: | | مشروع التفتيش بالموجات فوق الصوتية (تفتيش منطقة ملحوظ) (SS+P15) | | AES Form No. | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والمواصلات | | Report No. | |
| Consultant: | | مكتب ميسكرا للاستشارات الهندسية | | Date: | |
| Contractor: | | الشارع عمر و حلي | | Rev. | |
| Doc. No. | | Block/Item no. | | Joint Type | |
| Reference Procedure Specification | | AES-UT-001 | | Surface Condition | |
| Surface Temp. | | Basic Temp. | | Acceptance criteria | |
| Heat Treatment | | T: 800 \| L: ASB | | Weld Process | |
| Th: | | 12.7 mm | | | |
| Equipment & Technique | | | | | |
| Model: | | SL No. | | Manufacturer: | |
| Complant type | | Cable Type: | | 4 Single Lines 00 to 1000 L in Length | |
| Basic calibration Block: | | V11(W) V12(W) | | Calibration block: | |
| Search Unit: | | Manufacturer: GE | | Technique: | |
| Angle | | 45 | | Joint Sketch | |
| SL No. | | 134/07 | |  | |
| Dimensions | | 62x62 | | | |
| Frequency | | 0.25 MHz | | | |
| Sensitivity | | S2 | | | |
| Ref gain | | S2 | | | |
| Range | | 1500mm | | Scanning Employed From: A | |
| Calibration sheet attached: () Yes () No | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | |
| | | Welder ID | | % of Inspection | |
| | | | | Evaluation / mm | |
| | | | | Type | |
| | | | | Length | |
| | | | | Depth | |
| | | | | Result | |
| Vent 2 | | L 1(0-2.5) | | 22.7 mm | |
| | | L 2(2.5-5) | | 22.7 mm | |
| | | L 3(5-7.5) | | 22.7 mm | |
| | | L 4(7.5-10) | | 22.7 mm | |
| | | L 5(10-12.5) | | 22.7 mm | |
| | | L 6(12.5-15) | | 22.7 mm | |
| | | L 7(15-17.5) | | 22.7 mm | |
| | | L 8(17.5-20) | | 22.7 mm | |
| | | L 9(20-22.5) | | 22.7 mm | |
| | | L 10(22.5-25) | | 22.7 mm | |
| Remarks: | | AP.W.C.S >>>> As per welder certificate submitted to us | | | |
| Ultrasonic Welding Map | | | | | |
|  | | | | | |
| CB-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity
EP-Excess penetration GP-Cluster Porosity COM-Consistency
BTR-Before stress relief ASR-After stress relief | | | | | |
| NDE Inspector | | Approved by | | OTHER | |
| Name: Eng. Abdul Wahid Mohamed | | Name: Abdul Dayem Ali | | Name: | |
| Level: II | | Date: 10/11/2013 | | Date: | |
| Date: | | Date: | | Date: | |
| Sign: | | Sign: | | Sign: | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|-------------|
| Project Name: | مشروع الغاز الكهرلي السريع (المنطقة المقروعة) - برج شم (55+415) | AES Form No. | AES-001-001 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | AES-011-002 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2013 |
| Contractor: | المقاول عمر و علي | Rev. | 0 |

| | | | | | | |
|------------------------------------|-------------------|-----------|----------------------|-----------|-------|---------|
| Org. No.: | Mark/Item no.: | As before | Joint Type: | Butt, FBM | Thk.: | 22.7 mm |
| Reference Procedure Specification: | AES-011-001 | | Surface Condition: | Inspected | | |
| Surface Temp.: | Room Temp. | | Acceptance criteria: | ASME | | |
| Heat Treatment: | (/) (GR /) ASR | | Weld Process: | | | GTAW |

Equipment & Technique

| | | | | | | |
|--------------------------|-------------|--------|------------------|-----------|--|----------------|
| Model: | CTS-5000 | SL No: | 645740141000 | | Manufacturer: | Chua |
| Couplant type: | Water/PAPER | Part: | Cable Type: | | 4 Single Lines 90 to 100 mm Length | |
| Basic calibration Block: | | | Y1(BW) Y2(BW) | | Calibration block: | V1 |
| Search Unit : | | | Manufacturer (G) | | Technique : | Contact Manual |
| Angle | 0 | 42 | 68 | 70 | Joint Sketch | |
| SL No | | | | 234/07 |  | |
| Dimensions | | | | .62"x.62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 256/500 | Scanning Employed: From 1 & 4 | |

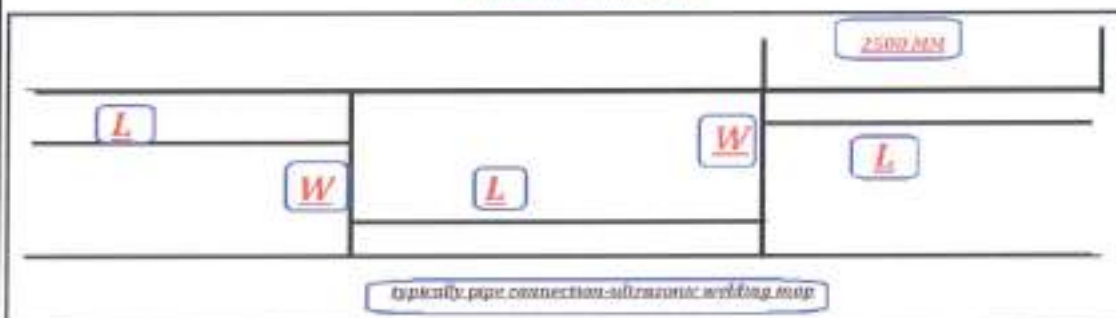
Calibration sheet attached: [] Yes [] No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | L 11(25-27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 12(27.5-30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 13(30-32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 14(32.5-35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 15(35-37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 16(37.5-40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 17(40-42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 18(42.5-45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 19(45-47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 20(47.5-50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S as per welder certificate requested to us.

Ultrasonic Welding Map



CR Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration CP-Cluster Porosity CN-Convexity

BSR-Before stress relief ASR-After stress relief

| | | |
|-----------------------------|-----------------------------|-------------|
| INSPECTION | APPROVED BY | OTHER |
| Name:- Eng. Abdul Muhaimmed | Name:- Eng. Abdul Bayam Ali | Name:- |
| Level:- II | Date:- | Date:- |
| Signature:- | Signature:- | Signature:- |

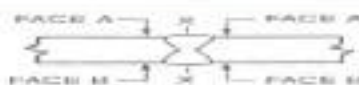
ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القنصلية الفرنسية السريع (شحن سفينة حطوط - برج شم 415+35) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | AES-07-001 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | القانوني عمرو راضي | Rev. | 0 |

| | | | | | |
|------------------------------------|-----------------|----------------------|---------------|--------------------|---------|
| Dep. No.: | Mark/Item no.: | Acceptor: | Joint Type: | Surface Condition: | Thk.: |
| Reference Procedure Specification: | ASME B31.3 | ASME | Butt Joint | Smooth | 22.7 mm |
| Surface Finish: | Free Turn | Acceptance criteria: | Weld Process: | AWS | |
| Root Treatment: | () GRP () ASB | | | | 17.50 |

Equipment & Technique

| | | | | | |
|--------------------------|------------|--------|------------------|--------------------|-------------------------------------|
| Model: | ET 1000 | SL No. | 5474414.1004 | Manufacturer: | Edina |
| Coaxial type: | Wall Paper | Probe: | | Cable Type: | 4 Single Layer 88 to 1mm 1 m length |
| Basic calibration Block: | | | Y80W1 V2/BW | Calibration block: | V1 |
| Search Unit: | | | Manufacturer: CB | Technique: | Conform Manual |
| Angle: | 0 | 41 | 55 | 70 | Joint Sketch |
| SL No. | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |



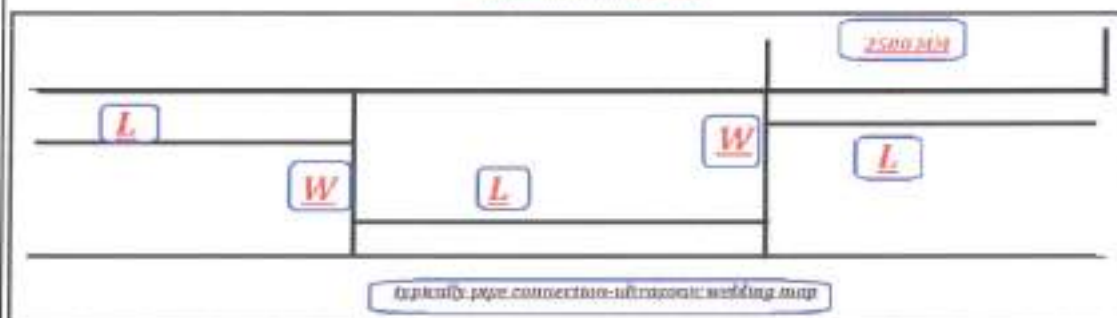
Calibration sheet attached: () Yes () No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | L 21(50-52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 22(52.5-55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 23(55-57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 24(57.5-60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 25(60-62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 26(62.5-65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 27(65-67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 28(67.5-70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 29(70-72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 30(72.5-75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate registered in us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Etches protrusions GP-Groove Porosity CON-Convexity

BSR-Before stress relief ASR-After stress relief

| | | |
|---------------------------|-------------------------------|------------|
| NDE Inspector | Approved by | OTHER |
| Name: Eng. Abdul Mohannad | Name: Eng. Abdul Mohannad Ali | Name: |
| Level: II | Date: 01/11/2023 | Date: |
| Signature: [Signature] | Signature: [Signature] | Signature: |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع الغاز الكهربائي السريع (المنطقة - مشروع) - برج رقم (415+55) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والكباري والنقل الجوي | Report No. | AES-03-004 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | المقاول محمد وعلي | Rev. | 0 |

| | | | | | | |
|------------------------------------|--------------------|---------|----------------------|-------------|-------|---------|
| Org. No.: | Mark/Item no.: | 4459999 | Test Type: | Rebar / FRP | Thk.: | 22.7 mm |
| Reference Procedure Specification: | AES-01-001 | | Surface Condition: | As cast | | |
| Surface Temp.: | Rebar Temp. | | Acceptance criteria: | AWS | | |
| Heat Treatment: | (/) RT (/) ASB | | Weld Process: | ET 60 | | |

Equipment & Technique

| | | | | | |
|--------------------------|-----------------|--------------------|-------------|---------------------------|-------------------------------------|
| Model: | CTF 5000 | SL No.: | 54750011100 | Manufacturer: | Chae |
| Compliant type: | Web PAPER | Parts: | | Cable Type: | 4 Single Leads 00 to 1mm 1 m Length |
| Basic calibration Block: | F1(100) F2(100) | Calibration block: | V1 | Technique: | Contact Manual |
| Search Unit: | | Manufacturer (G): | | | |
| Angle: | 45 | 65 | 75 | | |
| SL No.: | | | 134/07 | | |
| Dimension: | | | 62" x 62" | | |
| Frequency: | | | 2.25 MHz | | |
| Sensitivity: | | | 5T | | |
| Ref gain: | | | 5T | | |
| Range: | | | 1500mm | Scanning Employed From: A | |

Calibration sheet attached: (/) Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | L 31(75-77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 32(77.5-80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 33(80-82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 34(82.5-85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 35(85-87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 36(87.5-90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 37(90-92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 38(92.5-95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 39(95-97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 40(97.5-100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S ==> As per welder certificate registered to us.

Ultrasonic Welding Map



CR- Cracks IP- incomplete penetration IF- Incomplete Fusion SL- Slag P- Porosity
EP- Excess penetration CP- Cluster Porosity CDM- Concavity
BSR- Before stress relief ASR- After stress relief

| AES Inspector | Approved by: | OTHER |
|--------------------------------|--------------------------------|--------------|
| Name- Eng. Abdulrahman Mohamed | Name- Eng. Abdulrahman Mohamed | Name- |
| Level- II | Level- | Level- |
| Date- | Date- | Date- |
| Sign- | Sign- | Sign- |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|-------------|
| Project Name: | مشروع نظام التهوية السريع (شحن سفينة سطوح) - برج رقم (53+415) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل، الهيئة العامة للطرق والمواصلات والنقل البري | Report No. | AES-473-003 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 27/11/2023 |
| Contractor: | للحفر والخرق والخرق | Rev. | 0 |

| | | | |
|------------------------------------|---------------------|----------------------|---------|
| Eng. No.: | Mark/Name: | Joint Type: | Th. |
| Reference Procedure Specification: | AES-473-003 | Surface Condition: | 22.7 mm |
| Surface Temp: | Basic Temp: | Acceptance criteria: | Studied |
| Heat Treatment: | [/] ESR [/] ASB | Weld Process: | AW |

Equipment & Technique

| | | | | | |
|--------------------------|------------|-------------------|----------------|--|---------------------------|
| Model: | CP2 9005 | SL No: | 54300101000 | Manufacturer: | China |
| Compliant type: | Weld PAPER | Probe: | | 4 Single (Laminar) ID to Laminar 1 in Length | |
| Basic calibration Block: | | Cable Type: | V(10W) V2(10W) | Calibration block: | FL |
| Search Unit: | | Manufacturer (ID) | | Technique: | Contact Manual |
| Angle | 0 | 45 | 60 | 75 | Joint Sketch |
| SL No | | | | | |
| Dimension | | | | | |
| Frequency | | | | | |
| Sensitivity | | | | | |
| Ref gain | | | | | |
| Range | | | | | |
| | | | | | Scanning Employed From: A |

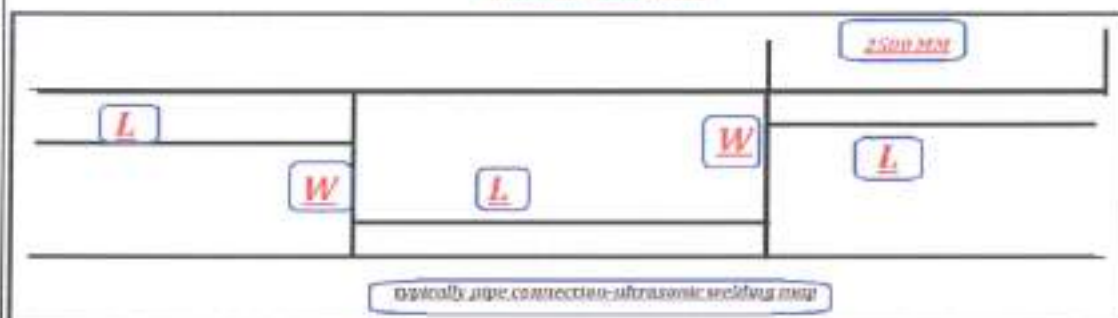
Calibration sheet attached: [/] Yes [/] No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | L 41(100-102.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 42(102.5-105) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 43(105-107.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 44(107.5-110) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 45(110-112.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 46(112.5-115) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 47(115-117.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 48(117.5-120) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 49(120-122.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 50(122.5-125) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S ---- As per welder certificate registered to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration CP-Discolor Porosity CON-Concavity

BSR-Before stress relief ASR-After stress relief

| | | |
|---------------------------------|-------------|-------|
| NDI Inspector | Approved by | OTHER |
| Name: Eng. Abdul Wahid Mohammed | | Name: |
| Level: II | | |
| Date: | Date: | Date: |
| Sign: | Sign: | Sign: |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (الخط منسق - مطروح) - برج رقم (815+57) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - هيئة العامة للطرق والكباري والنقل البري | Report No. | AES-03-000 |
| Consultant: | مكتب مستشاري الاستشارات الهندسية | Date: | 07/11/2013 |
| Contractor: | القابوق بحري وبنكي | Rev. | 0 |

| | | | | | |
|------------------------------------|---------------------|----------------------|--------------------|---------------|---------|
| Drp. No.: | Work/Item no.: | Job Ref.: | Joint Type: | Joint / Joint | Thk.: |
| Reference Procedure Specification: | | AES-03-001 | Surface Condition: | Good | 22.7 mm |
| Surface Temp.: | Room Temp. | Acceptance criteria: | Weld Process: | SAW | SAW |
| Heat Treatment: | 1 / 1053 (1 / 1053) | | | | |

Equipment & Technique

| | | | | | |
|--------------------------|-----------|------------------|------------|---------------------------------|----------------|
| Model: | CTS 5000 | SL No.: | 0401011104 | Manufacturer: | China |
| Couplant type: | Wet PAPER | Probe: | | Single Layer 10 to 15 mm Length | |
| Basic calibration Block: | | V1 (PW) - V2 (W) | | Calibration block: | V1 |
| Search Unit: | | Manufacturer: GE | | Technique: | Contact Manual |
| Angle: | 45 | 45 | 60 | 70 | Joint Sketch |
| SL No. | | | | | 134/87 |
| Dimension: | | | | | 82"x42" |
| Frequency: | | | | | 1.25 MHz |
| Sensitivity: | | | | | 52 |
| Ref gain: | | | | | 52 |
| Range: | | | | | 1500 mm |
| Scanning Employed: | From: A | | | | |

Calibration sheet attached: (/) Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm. | | | Result |
|---------------|----------------|-----------|-----------|-----------------|------------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | L51(125-127.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L52(127.5-130) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L53(130-132.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L54(132.5-135) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L55(135-137.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L56(137.5-140) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L57(140-142.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L58(142.5-145) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L59(145-147.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L60(147.5-150) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate reported to us.

Ultrasonic Welding Map



CB-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity

UP-Under penetration CP-Crack porosity COW-Corrosion

BSR-Buffer stress relief ASR-After stress relief

| | | |
|---------------------------------|--------------|---------|
| MDE Inspector: | Approved by: | OTMR: |
| Name:- Eng. Abdulrahman Mohamed | Name:- | Name:- |
| Level:- II | Level:- | Level:- |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |

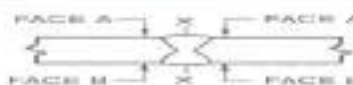
ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع إنشاء الكهربي السريع (شبكة منطقة مطروح - 55+815) | AES Form No. | AES-009 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | AES-UT-007 |
| Consultant: | مكتب ميسرا للاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | القرنول جبر و شركاه | Rev. | 1 |

| | | | |
|------------------------------------|---------------------|----------------------|---------|
| Ref. No.: | Mark/Item no.: | Joint Type: | Thick.: |
| Reference Procedure Specification: | AES-007-001 | Butt, 2V Groove | 13.7 mm |
| Surface Temp.: | Room Temp. | Surface Condition: | Good |
| Heat Treatment: | (/) RSR (/) ASB | Acceptance criteria: | ASNT |
| | | Weld Process: | GTAW |

Equipment & Technique

| | | | | | |
|--------------------------|------------|------------------|--------------|---------------------------------------|----------------|
| Model: | CTS-4000 | Sl. No.: | 544140141004 | Manufacturer: | Chips |
| Complait type: | Wall Paper | Probe: | | 4 Single Lens 0.5 in Lens 1 in Length | |
| Basic calibration Block: | | FL (AW) V2 (HH) | | Calibration block: | Y1 |
| Search Unit: | | Manufacturer: GE | | Technique: | Contact Manual |
| Angle: | H | 42 | 88 | 78 | Joint Sketch |
| Sl. No. | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |



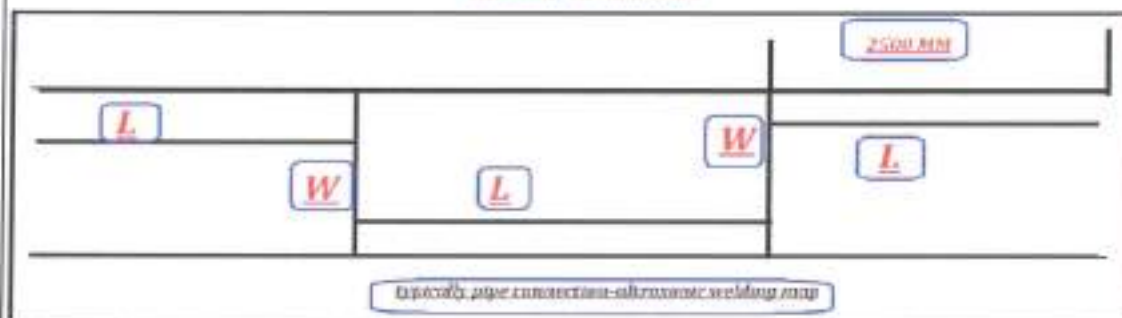
Calibration sheet attached (/) Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|-----------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 2 | W 1(2.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W2(5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W3(7.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W4(10) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W5(12.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W6(15) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W 7(17.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W8(20) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W9(22.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | W10(25) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate supplied to us.

Ultrasonic Welding Map

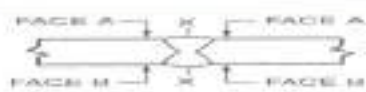


CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

CP-Excess penetration CP-Cluster Porosity CON-Concreity

RSR-Retake stress relief ASB-After stress relief

| | | |
|--------------------------------|--------------|---------|
| RDE Inspector: | Approved by: | OTHER: |
| Name:- Eng. Abdulhadi Mahammed | Name:- | Name:- |
| Level:- II | Level:- | Level:- |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |

| 
AES Engineering Services
41 New England Dr. Goshen
CT 07030 and Inspection Engineering
Inc. / Global Offices Ltd. | | ULTRASONIC EXAMINATION REPORT | | 
AES Engineering Services
41 New England Dr. Goshen
CT 07030 and Inspection Engineering
Inc. / Global Offices Ltd. | | | | | | | | |
|---|------------|--|---------|---|-----------|--|------|--------------------|-------|--|------|--|
| Project Name: | | مشروع تقنات التبريد السريع (العين الصناعية - طريق - 35+41.5) | | AES Form No. : 025-0-000 | | | | | | | | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والكباري والنقل الجوي | | Report No. : 025-01-000 | | | | | | | | |
| Consultant: | | مكتب استشارات الهندسية | | Date: 17/11/2023 | | | | | | | | |
| Contractor: | | الشارف جبر و شري | | Rev. : 0 | | | | | | | | |
| Dog No.: | | Mark/Drawn by: [As below] | | Joint Type: Butte Joint | | | | | | | | |
| Reference Procedure Specification: | | AWS UT-101 | | Surface Condition: Smooth | | | | | | | | |
| Surface Temp: | | Joint Temp: | | Acceptance criteria: AWS | | | | | | | | |
| Heat Treatment: | | [/ 300] [/ 450] | | Weld Process: GTAW | | | | | | | | |
| Equipment & Technique | | | | | | | | | | | | |
| Model: CT11000 | | SL No: 30714031004 | | Manufacturer: [Blank] | | | | | | | | |
| Couplant type: Wet FASTER Paste | | Cable Type: | | 4 Single Lens HV is Lens 3 in Length | | | | | | | | |
| Basic calibration Block: | | V1 (W3) V2 (W3) | | Calibration Mode: VI | | | | | | | | |
| Search Unit: | | Manufacturer: GE | | Technique: Contact Manual | | | | | | | | |
| Angle: 0 | | 45 | | 60 | | | | | | | | |
| SL No: | | 134/57 | | Joint Sketch: | | | | | | | | |
| Dimension: | | 8.2" x 8.2" | |  | | | | | | | | |
| Frequency: | | 2.25 MHz | | | | | | | | | | |
| Sensitivity: | | 52 | | | | | | | | | | |
| Ref gain: | | 52 | | | | | | | | | | |
| Range: | | 1500/300 | | Scanning Employed From: A | | | | | | | | |
| Calibration sheet attached: [/] Yes [/] No | | | | | | | | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | | | | | | | | |
| | | Welder ID | | % of Inspection | | | | | | | | |
| | | | | Evaluation / mm | | | | | | | | |
| | | | | Type | | | | | | | | |
| | | | | Length | | | | | | | | |
| | | | | Depth | | | | | | | | |
| | | | | Result | | | | | | | | |
| Vent 2 | W 11(27.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 12(30) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 13(32.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 14(35) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 15(37.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 16(40) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 17(42.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 18(45) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 19(47.5) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| | W 120(50) | | 22.7 mm | | A.P.W.C.S | | 100% | | | | Acc. | |
| Remarks: | | A.P.W.C.S >>> As per welder certificate requested to us. | | | | | | | | | | |
| Ultrasonic Welding Map | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag IP-porosity
EP-Excess penetration CP-Cluster Fusion COV-Corrosion
BR-Behavioral relief ASR-After stress relief | | | | | | | | | | | | |
| NDE Inspector | | | | Approved by | | | | OTHER | | | | |
| Name: Eng. Ahmed Mohamed | | | | Name: [Blank] | | | | Name: [Blank] | | | | |
| Level: II | | | | Date: [Blank] | | | | Date: [Blank] | | | | |
| Signature: [Signature] | | | | Signature: [Signature] | | | | Signature: [Blank] | | | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع تقطير الغازات السائلة - مصنع - (35+415) | AES Form No. | 225-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للغرق والتفريغ والتفريغ | Report No. | 225-F-006 |
| Consultant: | مكتب هندسة الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | التقديري محمد وعلي | Rev. | 0 |

| | | | |
|------------------------------------|----------------------|--------------------|---------|
| Prog. No.: | Mark/Item no.: | Joint Type: | Thk. |
| Reference Procedure Specification: | 225-UT-001 | Surface Condition: | 22.7 mm |
| Surface Temp: | Acceptance criteria: | Weld Process: | |
| Heat Treatment: | 1 / 1000 / 1 ASB | | |

Equipment & Technique

| | | | |
|--------------------------|-------------------|--------------------------------------|---|
| Model: | SL No. | Manufacturer: | |
| Coil type: | Cable Type: | 4 Single Lens 10 in Lens 1 in Length | |
| Basic calibration Block: | Calibration Mark: | VJ | |
| Search Unit: | Manufacturer: | GE | |
| Angle: | Th | Joint Sketch | |
| SL No. | 134/57 | | |
| Dimension: | 42"x62" | | |
| Frequency: | 2.25 MHz | | |
| Sensitivity: | 52 | | |
| Ref gain: | 52 | | |
| Range: | 1000/500 | Scanning Employed From: | A |

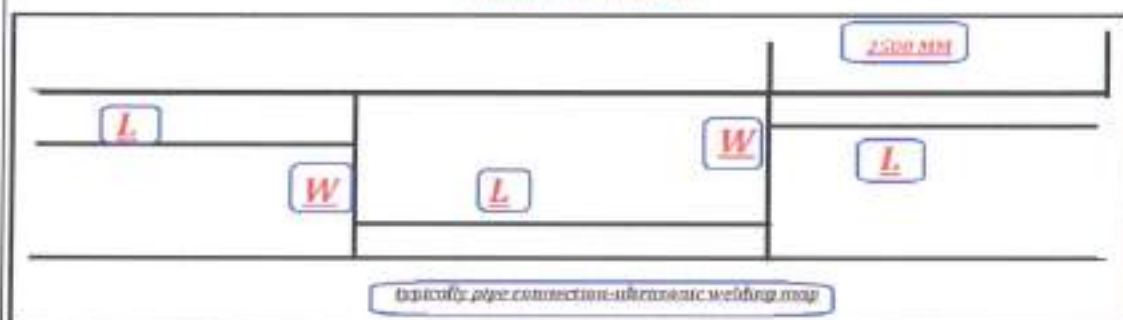
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent2 | W 21(52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W22(55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W23(57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W24(60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W25(62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W26(65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 27(67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W28(70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W29(72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W30(75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S 100% As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration GP-Cluster Porosity CON-Convexity

BSR-Residual stress relief ASB-After stress relief

| | | |
|-------------------------------|-------------|---------|
| ADE Inspector | Approved by | OTHER |
| Name:- Eng. Ahmed Mohamed Ali | Name:- | Name:- |
| Level:- II | Level:- | Level:- |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (لنصف المسافة بطريق) - برج كم (55+815) | AES Form No. | AEI-F-008 |
| Owner | وزارة النقل، الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | AEI-UT-001 |
| Consultant | مكتب ميسرا للاستشارات الهندسية | Date: | 17/01/2023 |
| Contractor | الطريق السريع وادي | Rev. | 01 |

| | | | | | |
|------------------------------------|-------------------|----------------------|----------------|-----|----------|
| Reg. No. | Mark/Trade No. | Joint Type | Joint / Welder | Yks | SL Tmm |
| Reference Procedure Specification: | ASNT-UT-994 | Surface Condition: | Accepted | | Accepted |
| Surface Temp. | Basic Tensile | Acceptance criteria: | Weld Process | | ASNT |
| Heat Treatment: | [/] RSK () ASB | | | | ASNT |

Equipment & Technique

| | | | | | |
|--------------------------|-----------|------------------|--------------|---------------------------------------|----------------|
| Model: | 715-5000 | SL No. | 010100100000 | Manufacturer: | TEDEA |
| Coil type: | WAB PAPER | Probe | | 4 Single Lens B in Series 1 in Length | |
| Basic calibration Block: | | V10(PW) V10(HW) | | Calibration Mark: | 01 |
| Search Unit: | | Manufacturer: GE | | Technique: | Contact Manual |
| Angle | 0 | 40 | 60 | 70 | Joint Sketch |
| SL No | | | | | |
| Dimension | | | | | |
| Frequency | | | | | |
| Sensitivity | | | | | |
| Ref gain | | | | | |
| Range | | | | | |



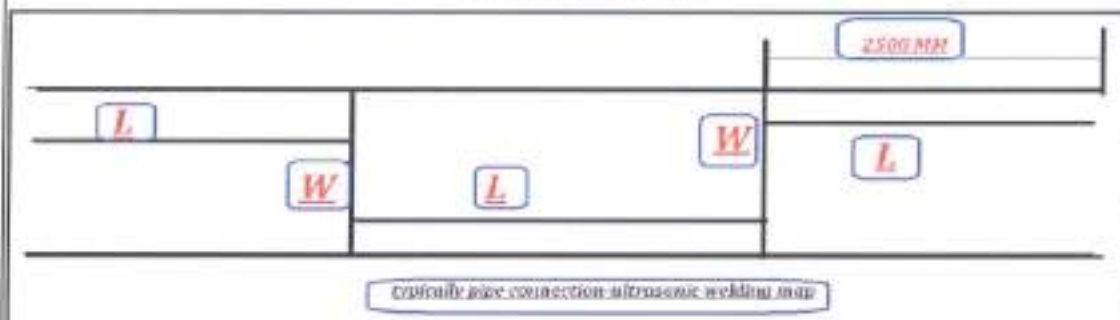
Calibration sheet attached: [/] Yes [/] No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent2 | W 31(77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W32(80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W33(82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W34(85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W35(87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W36(90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 37(92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W38(95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W39(97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W40(100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

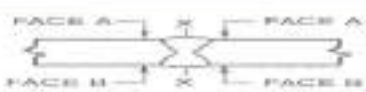
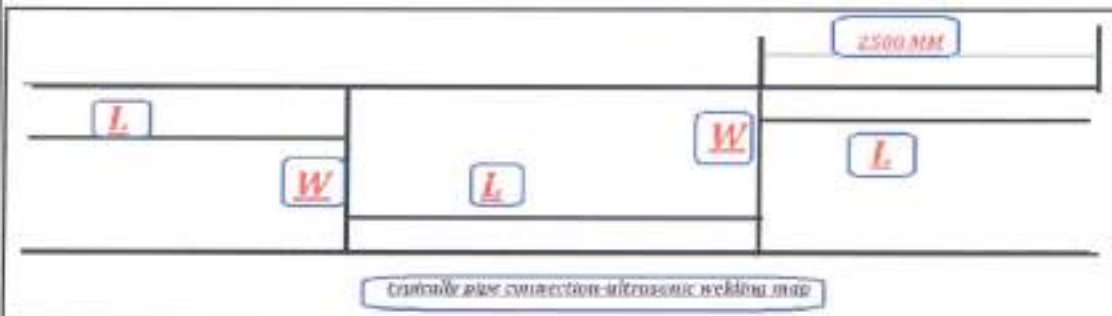
Remarks:

APWCS 100% As per welder certificate reported to us.

Ultrasonic Welding Map



| | | | | |
|------------------------------|---------------------------|----------------------|---------|------------|
| CB-Crack | IP-Incomplete penetration | IF-Incomplete Fusion | SL-Slag | P-porosity |
| EP-Entrapped gas | GP-Grain Porosity | CON-Consistency | | |
| RSK-Backing stress relief | ASB-After stress relief | | | |
| MSE-Inspector | Approved by | OTHER | | |
| Name:- Eng. Abdallah Mohamed | Name:- | Name:- | | |
| Level:- II | Level:- | Level:- | | |
| Date:- | Date:- | Date:- | | |
| Sign:- | Sign:- | Sign:- | | |

| 
AES Engineering Services
27, 287 and 289/290 Engineering
Top 1, Block 4, Road 45 | | ULTRASONIC EXAMINATION REPORT | | 
AES Engineering Services
27, 287 and 289/290 Engineering
Top 1, Block 4, Road 45 | | |
|--|-------------|--|-----------|---|--|------|
| Project Name: | | مشروع تقارب الكهربي السريع (المنطقة الخارج) - ربيع كم (55+4.5) | | AES Form No. | | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري | | Request No. | | |
| Consultant: | | مكتب ميسر للاستشارات الهندسية | | Date: | | |
| Contractor: | | قنصلية حورو وحلي | | Rev. | | |
| Drawn by: | | Mark/Item no: | | Joint Type: | | |
| Reference Procedure Specification: | | AWS D1.1 | | Surface Condition: | | |
| Surface Temp: | | Bare Temp: | | Acceptance criteria: | | |
| Heat Treatment: | | (/ 100) / ASR | | Weld Process: | | |
| Equipment & Technique | | | | | | |
| Model: | | SL No: | | Manufacturer: | | |
| Couplant type: | | Cable Type: | | 4 Single Lens 00 to Lens 1 in Length | | |
| Basic calibration Block: | | V1(IW) V2(IW) | | Calibration block: | | |
| Search Unit: | | Manufacturer: GE | | Technique: | | |
| Angle: | | 45 | | Joint Sketch | | |
| SL No: | | 134/07 | |  | | |
| Diameter: | | 12"x12" | | | | |
| Frequency: | | 3.25 MHz | | | | |
| Sensitivity: | | 52 | | | | |
| Ref gain: | | 52 | | | | |
| Range: | | 1500/500 | | Scanning Employed From: A | | |
| Calibration sheet attached: () Yes (/) No | | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | | |
| | | Welder ID | | % of inspection | | |
| | | | | Evaluation / mm | | |
| | | | | Type | | |
| | | | | Length | | |
| | | | | Depth | | |
| | | | | Result | | |
| Vent 2 | W 41(102.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 42(105) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 43(107.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 44(110) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 45(112.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 46(115) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 47(117.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 48(120) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 49(122.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | W 50(125) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| Remarks: | | APW 2.5 -> As per welder certificate suggested to us. | | | | |
| Ultrasonic Welding Map | | | | | | |
|  | | | | | | |
| (control) please connection ultrasonic welding map | | | | | | |
| ICB- Crack IF- Incomplete Penetration IF- Incomplete Fusion SL- Sag P- porosity
EP- Excess penetration CP- Cluster Porosity CCN- Cavosity
BSR- Bottom stress relief ASR- After stress relief | | | | | | |
| MDE Inspector | | Approved by | | OTHER | | |
| Name: Eng. Abdallah Mohamed | | Name: | | Name: | | |
| Level: II | | Level: | | Level: | | |
| Date: | | Date: | | Date: | | |
| Sign: | | Sign: | | Sign: | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع التتار الكهربائي السريع (تحت السطحة - مطروح) - برج كم (55+115) | AES Form No. | AES-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | AES-UT-012 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/07/2018 |
| Contractor: | القرارة عمود وشركاه | Rev. | 0 |

| | | | | | | |
|------------------------------------|--------------------|--------------|----------------------|---------------|------|-----------|
| Drp. No.: | Mark/Item no. | As Inspected | Joint Type: | Weld / Fusion | Thi. | SL Type |
| Reference Procedure Specification: | | 001.007.001 | Surface Condition: | | | Inspected |
| Surface Temp: | Weld Temp: | | Acceptance criteria: | | | ASNT |
| Heat Treatment: | (/ 1000 F) / 550 | | Weld Process: | | | SL-20 |

Equipment & Technique

| | | | | | |
|--------------------------|----------|-------------------|-----------------|--------------------------------------|----------------|
| Model: | UT-1000 | SL No. | 001.001.01000 | Manufacturer: | SONO |
| Complaid type: | W8 PAPER | Part: | | 4 Single Lines 80 to 100mm in length | |
| Basic calibration Block: | | Calibration Mode: | V1(100) V2(100) | Calibration Mode: | V1 |
| Search Unit: | | Manufacturer: | GE | Technique: | Contact Manual |
| Angle | 0 | SL | 00 | Joint Sketch | |
| SL No. | | | 131/07 | | |
| Dimension: | | | 82x62 | | |
| Frequency: | | | 2.25 MHz | | |
| Sensitivity: | | | 52 | | |
| Ref gain: | | | 52 | | |
| Range: | | | 150A100 | | |
| Scanning Employed from: | | | A | | |

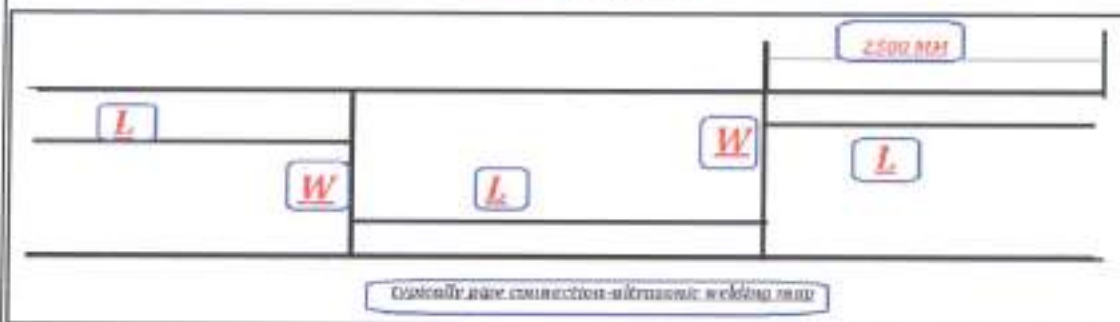
Calibration sheet attached: () Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent2 | W 51(127.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W52(130) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W53(132.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W54(135) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W55(137.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W56(140) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 57(142.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W58(145) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W59(147.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remark:-

A.P.W.C.S >>>> As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity

UP-Incomplete penetration CP-Cracked Porosity COM-Causality

BSR-Below stress relief ASR-Above stress relief

| | | |
|-----------------------------|-------------|-------|
| AES Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Muhaimmed | Name:- | |
| Level:- II | Level:- | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |



Al-Noor Engineering services

Al-Noor Engineering Services

DT, NDT and Supervision Engineering

Eng./ Abdul dayem Ali



Al-Noor Engineering services

النور للخدمات الهندسية

للإختبارات الإتلافية والغير إتلافية والإشراف الهندسي

مهندس /عبدالدايم علي

TEST REPORTS

FOR VENT NO.3

Project Name:

مشروع القطار الكهربائي السريع (العين السخنة -مطروح) - بربخ كم
(55+415)

Client:

وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري

Consultant:

مكتب سيسترا للاستشارات الهندسية

Contractor:

شركة الفاروق عمرو وعلي

AES ENGINEERING SERVICES

النور للخدمات الهندسية



Giza, El-Haram St. , El-3areesh St. , Building No. 16 , Floor 15

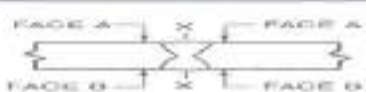
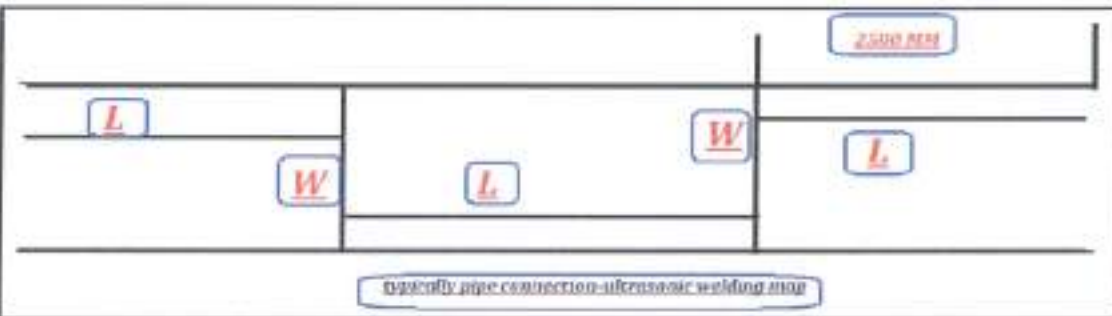
الجيزة - شارع الهرم -شارع العريش -عمارة رقم 16 -النور الثامن -شقة رقم 15

Mob. : (+2)01015130467 - (+2)01205666820

Email: aes.alnoor@gmail.com , Abdou_ali2011@yahoo.com



النور للخدمات الهندسية

| 
AES Engineering Services
All Over Engineering Services
101, 101F and 101G Engineering
Top / 101F and 101G | | ULTRASONIC EXAMINATION REPORT | | 
AES Engineering Services
All Over Engineering Services
101, 101F and 101G Engineering
Top / 101F and 101G | |
|---|--|--|--|---|--|
| Project Name: | | مشروع القطار الكهربائي السريع (تحت الإنشاء - طريق أم (55+115)) | | AES Form No. | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والمواصلات | | Report No. | |
| Consultant: | | مكتب مستشار الاستشارات الهندسية | | Date: | |
| Contractor: | | الشارع عمر و علي | | Rev. | |
| Doc. No.: | | Mark/Item no.: | | Joint Type: | |
| Reference Procedure Specification: | | ASME | | Surface Condition: | |
| Surface Temp.: | | ASME | | Acceptance criteria: | |
| Heat Treatment: | | ASME | | Weld Process: | |
| Equipment & Technique | | | | | |
| Model: | | SL No.: | | Manufacturer: | |
| Couplant type: | | Cable Type: | | 4 Single Lens (0 to 1mm in length) | |
| Basic calibration Block: | | V1(100) V2(100) | | Calibration block: | |
| Search Unit: | | Manufacturer (G): | | Technique: | |
| Angle | | 40 | | Joint Sketch | |
| SL No. | | 130/67 | |  | |
| Dimension | | 62"x52" | | | |
| Frequency | | 2.25 MHz | | | |
| Sensitivity | | 12 | | | |
| Range | | 1500mm | | | |
| Scanning Employed From: A | | | | | |
| Calibration sheet attached: () Yes () No | | | | | |
| Item/Mark No. | | Joint No. | | Thickness | |
| | | Welder ID | | % of Inspection | |
| | | Evaluation / mm | | Result | |
| | | Type | | Length | |
| | | Depth | | | |
| Vent 3 | | L 1(0-2.5) | | 22.7 mm | |
| | | L 2(2.5-5) | | 22.7 mm | |
| | | L 3(5-7.5) | | 22.7 mm | |
| | | L 4(7.5-10) | | 22.7 mm | |
| | | L 5(10-12.5) | | 22.7 mm | |
| | | L 6(12.5-15) | | 22.7 mm | |
| | | L 7(15-17.5) | | 22.7 mm | |
| | | L 8(17.5-20) | | 22.7 mm | |
| | | L 9(20-22.5) | | 22.7 mm | |
| | | L 10(22.5-25) | | 22.7 mm | |
| Remarks: | | | | | |
| APWC 100% As per welder certificate submitted to us. | | | | | |
| Ultrasonic Welding Map | | | | | |
|  | | | | | |
| typically pipe connection-ultrasonic welding map | | | | | |
| ICR-Crack IF-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity
EP-Etches penetration CP-Catch Porosity CDN-Concavity
BSR-Before stress relief ASR-After stress relief | | | | | |
| RDE Inspector | | Approved by | | OTHER | |
| Name: Eng. Abdul Wahid Mohamed | | Name: | | Name: | |
| Level: II | | Level: | | Level: | |
| Date: | | Date: | | Date: | |
| Sign: | | Sign: | | Sign: | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|-------------|
| Project Name: | مشروع القطار الكهربائي السريع (المنطقة - حطوط) - ربيع ام (55+415) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والنقل الجوي | Report No. | AES-001-002 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 2/10/2024 |
| Contractor: | الطريق السريع وعلی | Rev. | 0 |

| | | | |
|------------------------------------|-------------------|----------------------|-------------------|
| Drp. No.: | Mark/Note no. | Test Type: | Th. / CE, T. test |
| Reference Procedure Specification: | AES-001-001 | Surface Condition: | Smooth |
| Surface Temp.: | Surface Temp. | Acceptance criteria: | ASNT |
| Heat Treatment: | 1 / 200°C / 1 ASR | Weld Process: | ES 308 |

Equipment & Technique

| | | | | | |
|--------------------------|-----------|---------------|---------------|--------------------------------------|----------------|
| Model: | CTS 4000 | SL No.: | 40001010000 | Manufacturer: | CHAS |
| Couplant type: | Wet PAPER | Factor: | | 4 Single Lens 88 to Lens 1 to Length | |
| Basic calibration Block: | | Cable Type: | V100W / V200M | Calibration Mode: | VL |
| Search Unit: | | Manufacturer: | CH | Technique: | Contact Manual |
| Angle: | 0 | 45 | 60 | 75 | Joint Sketch: |
| SL No. | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |

Calibration sheet attached: () Yes (/) No

| Time/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / min | | | Result |
|---------------|---------------|-----------|-----------|-----------------|------------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | L 11(25-27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 12(27.5-30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 13(30-32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 14(32.5-35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 15(35-37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 16(37.5-40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 17(40-42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 18(42.5-45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 19(45-47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 20(47.5-50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S -> As per welder certificate registered to us.

Ultrasonic Welding Map



CR=Crack IP=Incomplete penetration IF=Incomplete Fusion SL=Slag P=Porosity

EP=Excess penetration CP=Cluster Porosity CON=Concavity

BSR=Bottom stress relief ASR=After stress relief

| | | |
|-----------------------------|--|--------|
| NDT Inspector | Agencies by | OTHER |
| Name:- Eng. Abdul Muhaimmed | Signature: Eng. Abdul Dayem Ali | Name:- |
| Level: II | Stamp: CH & GEO | |
| Date:- | Stamp: Abdul Engineering Services | Date:- |
| Sign:- | Stamp: | Sign:- |



AES Engineering Services
ST. 1027 and Damascus Engineering
Bldg. / Model 4 zone 30

ULTRASONIC EXAMINATION REPORT



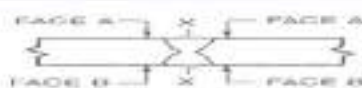
الهيئة الهندسية
للبحوث والدراسات
والاستشارات الهندسية
مجلس إدارته

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع الخط الجديد السريع [المنطقة - حطوح] - (55+115) | AES Form No. | AES-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | 025/07-002 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 2/26/2024 |
| Contractor: | المزادى عمرو وعلي | Rev. | 0 |

| | | | | | | |
|------------------------------------|------------------|---------------|----------------------|----------------|----------|---------|
| Org. No.: | Mark/Item no.: | As Fabricated | Test Type: | Joint / Fusion | Th. | 22.7 mm |
| Reference Procedure Specification: | 025/07-001 | | Surface Condition: | | Prepared | |
| Surface Temp.: | Room Temp. | | Acceptance criteria: | | ASME | |
| Heat Treatment: | 1 / BSR 1 / ASME | | Weld Process: | | ES-001 | |

Equipment & Technique

| | | | | | | |
|--------------------------|-------------|------------------|-----------------|----------|--|---------------|
| Model: | CTS-1000 | SL No: | 049100101010 | | Manufacturer: | China |
| Compliant type: | Multiplexer | Probe: | Cable Type : | | 4 Single Locus 0.5 to 1.5 in Length | |
| Basic calibration Block: | | | V1(01W) V2(01W) | | Calibration block | F1 |
| Search Unit : | | Manufacturer: IR | | | Technique : | Custom Manual |
| Angle | 0 | 45 | 60 | 75 | Joint Sketch | |
| SL No | | | | 135/01 |  | |
| Dimension | | | | 82"x.62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 1500/160 | Scanning Employed From : A | |



Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | L 21(50-52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 22(52.5-55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 23(55-57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 24(57.5-60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 25(60-62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 26(62.5-65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 27(65-67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 28(67.5-70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 29(70-72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 30(72.5-75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S **** As per welder certificate registered to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity

EP-Excess penetration CP-Cluster Porosity CDW-Cleanness

BSR-Before stress relief ASR-After stress relief

| | | |
|---------------------------------|-----------------------------|--------|
| MDE Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Wahab Mohamed | Eng. Abdul Bayen Ali | Name:- |
| Level:- II | CM & CEO | |
| Date:- | Al-Nor Engineering Services | Date:- |
| Sign:- | | Sign:- |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع الخط الكهربائي السريع (المنطقة - حفر) (53+415) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والنقل الجوي | Report No. | AES-07-014 |
| Consultant: | مكتب مهندسة الاستشارات الهندسية | Date: | 2/10/2014 |
| Contractor: | الشاروق عمر و ش | Rev. | 0 |

| | | | | | | |
|-----------------------------------|-----------------|-----------|---------------------|------------|------|---------|
| Org. No. | Mark/Item no. | As before | Joint Type | Butt Joint | Thk. | 22.7 mm |
| Reference Procedure Specification | ASME B31.3 | | Surface Condition | Smooth | | |
| Surface Temp. | Room Temp. | | Acceptance criteria | ASME | | |
| Heat Treatment | C / 1850 F / AS | | Weld Process | ES-60 | | |

Equipment & Technique

| | | | | | | |
|--------------------------|----------|------------------|---------------|----------|--|----------------|
| Model: | ETC-900 | SL No. | 24120011199 | | Manufacturer: | Omni |
| Coaplast type: | WATPAPER | Photo: | Cable Type : | | 4 Single Lines 00 to Lines 1 in Length | |
| Basic calibration Block: | | | V10100 V2100V | | Calibration block: | V1 |
| Search Unit : | | Manufacturer: GS | | | Technique: | Concent Massal |
| Angle | 0 | 45 | 60 | 75 |  | |
| SL No. | | | | 131/07 | | |
| Dimension | | | | 61"x6.2" | | |
| Frequency | | | | 2.25 MHZ | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | Scanning Employed front & A | |
| Range | | | | 150/100 | | |

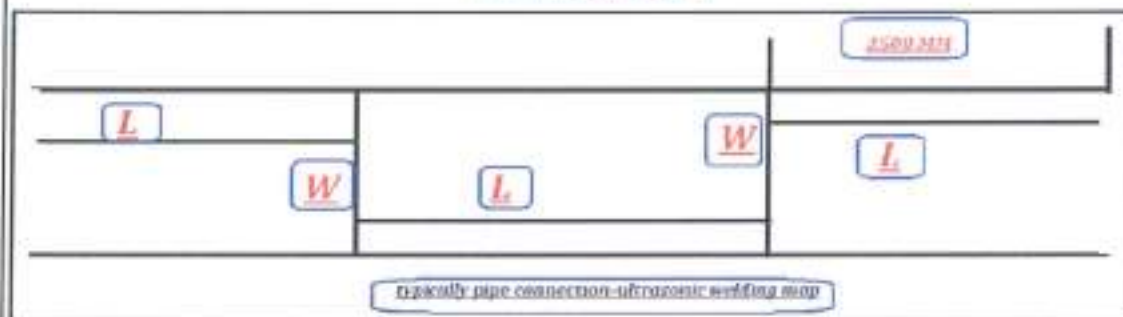
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | L 31(75-77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 32(77.5-80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 33(80-82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 34(82.5-85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 35(85-87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 36(87.5-90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 37(90-92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 38(92.5-95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 39(95-97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 40(97.5-100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S ***** As per welder certificate requested to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity

DP-Excess penetration CP-Cluster Porosity COM-Consolid

BSR-Bottom stress relief ASR-After stress relief

| | | |
|--------------------------|------------------------------|--------|
| NDE Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Muneem | Eng. Abdul Dayem Ali | Name:- |
| Level:- II | SM & CEO | |
| Date:- | Al-Rabe Engineering Services | Date:- |
| Sign:- | | Sign:- |

| AES
Arabian Engineering Services
22, MIT and Supervision Engineering
Tag: 0001 (Form 01) | | ULTRASONIC EXAMINATION REPORT | | AES
Arabian Engineering Services
22, MIT and Supervision Engineering
Tag: 0001 (Form 01) | | |
|--|-----------------|--|----------------------------|---|-----------------|--------|
| Project Name: | | مشروع القطر الكهربائي السريع (العين - طرطوس) - برج نم (115+55) | | AES Form No. AES-F-000 | | |
| Owner: | | وزارة النقل، الهيئة العامة للطرق والكباري والنقل الجوي | | Report No. AES-RT-000 | | |
| Consultant: | | مكتب مهندسي الاستشارات الهندسية | | Date: 2/9/2024 | | |
| Contractor: | | التقارون العمومي | | Rev. 0 | | |
| Org. No.: | | Mark/Draw No. 000 | | Joint Type: Butt / Flange | | |
| Reference Procedure Specification: | | ASME Section V | | Surface Condition: Smooth | | |
| Surface Temp.: | | Room Temp. | | Acceptance criteria: AWS | | |
| Heat Treatment: | | 1/2000 (1) ASR | | Weld Process: GTAW | | |
| Equipment & Technique | | | | | | |
| Model: CTC 2000 | | SL No. 54321011004 | | Manufacturer: Shimadzu | | |
| Couplant type: Water / Glycerol | | Cable Type: V1 (PW) / V2 (HF) | | 4 Single Lens 90° to Lens L in length | | |
| Basic calibration Block: | | VL (PW) / V2 (HF) | | Calibration block: VL | | |
| Search Unit: | | Manufacturer: GS | | Technique: Contact Method | | |
| Angle: 0° | | 45° | | Joint Sketch | | |
| SL No. 184/87 | | 184/87 | | | | |
| Dimension: 82x42 | | 82x42 | | | | |
| Frequency: 2.25 MHz | | 2.25 MHz | | | | |
| Sensitivity: 52 | | 52 | | | | |
| Ref gain: 52 | | 52 | | | | |
| Range: 2500mm | | 2500mm | | Scanning Employed: From A | | |
| Calibration sheet attached: Yes / No | | | | | | |
| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Imperfection | Evaluation / mm | Result |
| Vent 3 | L 41(100-102.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 42(102.5-105) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 43(105-107.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 44(107.5-110) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 45(110-112.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 46(112.5-115) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 47(115-117.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 48(117.5-120) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 49(120-122.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 50(122.5-125) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| Remarks: | | A.P.W.C.S = As per welder certificate registered to us. | | | | |
| Ultrasonic Welding Map | | | | | | |
| | | | | | | |
| CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity
EP-Excess penetration CP-Cluster Porosity CS-Consistency
BS-Before stress relief ASR-After stress relief | | | | | | |
| RDE Inspector | | | Approved by | | OTHER | |
| Name: Eng. Abdulhak Mohamed | | | Name: Eng. Abdul Dayem Ali | | Name: | |
| Level: II | | | Level: SM & CEO | | Level: | |
| Date: | | | Date: | | Date: | |
| Sign: | | | Sign: | | Sign: | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|-----------|
| Project Name: | مشروع القطر الكهربائي السريع (شحن أسفلة سطوح) - برج 5 (55+81.5) | AES Form No. | 025-F-000 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل الجوي | Report No. | 025-F-000 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 09/08/20 |
| Contractor: | الطريق السريع وادي | Rev. | 0 |

| | | | | | | |
|------------------------------------|----------------|-----------|----------------------|------------|------|---------|
| Dis. No.: | Mark/Item no.: | As before | Joint Type: | Butt Joint | Thk. | 22.7 mm |
| Reference Procedure Specification: | ASME Section V | | Surface Condition: | Smooth | | |
| Surface Temp: | Room Temp. | | Acceptance criteria: | ASME | | |
| Heat Treatment: | (/) ASME | | Weld Process: | GTAW | | |

Equipment & Technique

| | | | | | |
|--------------------------|------------|---------------|----------------------|------------------------------------|----------------|
| Model: | CTS 9000 | SL No. | 10000000000000000000 | Manufacturer: | CTS |
| Compl. type: | Wall Paper | Probe: | | Single Lens ID is Lens L in Length | |
| Basic calibration Block: | | Cable Type: | Y (11W), V (11M) | Calibration Block: | VI |
| Search Unit: | | Manufacturer: | GP | Technique: | Contact Method |
| Angle: | 0 | 45 | 90 | TH | |
| SL No. | | | 10000000000000000000 | | |
| Frequency: | | | 60°/62° | | |
| Sensitivity: | | | 2.25 MHz | | |
| Ref gain: | | | 52 | | |
| Range: | | | 52 | | |
| | | | 1500000 | | |



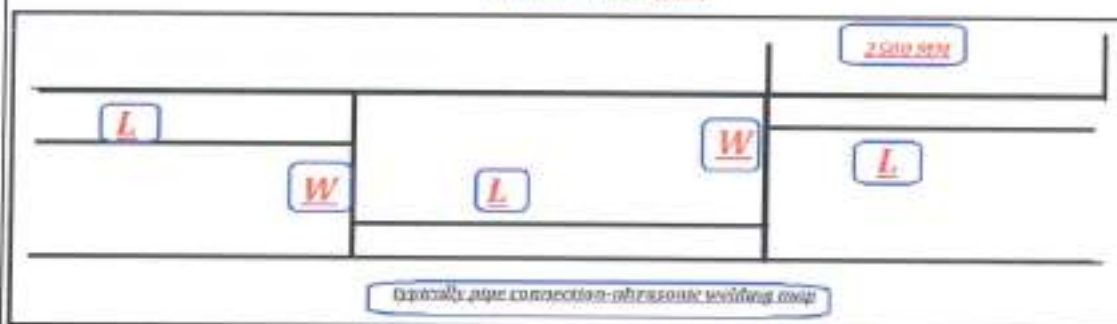
Calibration sheet attached: () Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | L51(125-127.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 52(127.5-130) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 53(130-132.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 54(132.5-135) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 55(135-137.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 56(137.5-140) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 57(140-142.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L58(142.5-145) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L59(145-147.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 60(147.5-150) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |

Remarks:-

A.P.W.C.S ---- As per welder certificate registered to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete Penetration IF-Incomplete Fusion SL-Slag P-Porosity
EP-Excess penetration CP-Cluster Fatigue COW-Corrosion
BSR-Before stress relief ASR-After stress relief

| NDE Inspector | | Approved by | | OTHER | |
|---------------------------------|--|-----------------------------|--|--------|--|
| Name:- Eng. Abdul Wahid Mohamed | | Name:- Eng. Abdul Dayem Ali | | Name:- | |
| Level:- II | | Level:- | | | |
| Date:- | | Date:- | | Date:- | |
| Sign:- | | Sign:- | | Sign:- | |

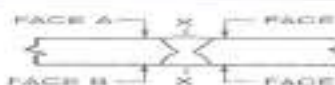
ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|-----------|
| Project Name: | مشروع الغاز الكهرائي السريع (تحت الإنشاء - مشروع) - برج رقم (55+415) | AES Form No. | 425-F-496 |
| Owner: | وزارة النقل - هيئة العامة للطرق والجسور والنقل المار | Report No. | 425-F-497 |
| Consultant: | مكتب ميسرا للاستشارات الهندسية | Date: | 2/3/2021 |
| Contractor: | الفرز عرو وحلي | Rev. | 0 |

| | | | | |
|------------------------------------|-----------------|----------------------|-----------|---------|
| Dr. No. | Mark/Item no. | Unit Type | Qty/Value | Th. |
| Reference Procedure Specification: | ASNT SNT-308 | Surface Condition: | Brushed | 12.7 mm |
| Surface Temp: | Room Temp. | Acceptance criteria: | ASNT | |
| Heat Treatment: | 1 / 300 / 1 ASB | Weld Process: | GTAW | |

Equipment & Technique

| | | | | | |
|--------------------------|------------------|---------------|--------------------------------------|--------------------|----------|
| Model: | CP-4000 | SL No. | 10150111000 | Manufacturer: | Shimadzu |
| Explant type: | Real Paper | Cable Type: | 4 Single Lens 10 to Lens 2 in length | Calibration block: | VL |
| Basic calibration block: | VL (EWS) V2 (RM) | Technique: | Contact Method | | |
| Search Unit: | | Manufacturer: | GE | | |
| Angle: | 45 | | 70 | | |
| SL No. | | | 131/67 | | |
| Dimension: | | | 62"x42" | | |
| Frequency: | | | 3.25 MHz | | |
| Sensitivity: | | | 52 | | |
| Ref gain: | | | 52 | | |
| Range: | | | 1586300 | | |



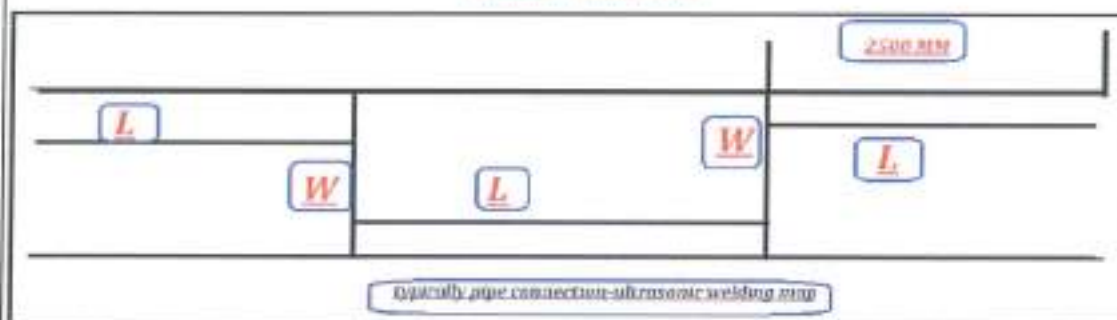
| | | |
|-----------------------------|---------|--------|
| Calibration sheet attached: | 1 / Yes | 2 / No |
|-----------------------------|---------|--------|

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-----------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 1(2.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W2(5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W3(7.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W4(10) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W5(12.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W6(15) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 7(17.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W8(20) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W9(22.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W10(25) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S > > > As per welder certificate reported to us.

Ultrasonic Welding Map



CB-Crack IF-Incomplete Penetration IP-Incomplete Fusion SL-Slag P-porosity

EP-Excess Penetration CP-Cluster Porosity CW-Consistency

BSR-Before Stress Relief ASB-After Stress Relief

| | | | |
|------------------------------|-----------------------|--------------|-------|
| NDT Inspector: | Eng. Abdul Hameed Ali | Approved by: | OTHER |
| Name:- Eng. Abdul Hameed Ali | Name:- | | |
| Level:- II | Level:- | | |
| Date:- | Date:- | | |
| Sign:- | Sign:- | | |

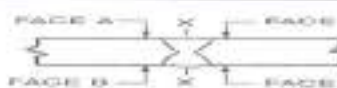
ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (لغرض التفتيش - مشروع) (SS+815) | AES Form No. | AES-F-004 |
| Owner | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري | Report No. | AES-UT-008 |
| Consultant | مكتب ميسمارا للاستشارات الهندسية | Date: | 27/12/2021 |
| Contractor | القطر القوي وول | Rev. | 0 |

| | | | | | | |
|------------------------------------|-----------------|-----------|----------------------|------------|-----|---------|
| Doc. No.: | Mark/Revision: | As before | Joint Type: | Butt/Flare | Th: | SL Test |
| Reference Procedure Specification: | ASNT SNT-345 | | Surface Condition: | Smooth | | |
| Surface Temp: | Room Temp | | Acceptance criteria: | ASNT | | |
| Heat Treatment: | 1 / BSR 1 / ASR | | Weld Process: | ECAR | | |

Equipment & Technique

| | | | | | |
|--------------------------|-----------|--------|------------------|-------------------------------------|---------------------------|
| Model: | CTI 5000 | SL No: | 199540314004 | Manufacturer: | China |
| Component type: | Weld/Pipe | Probe: | Cable Type: | 4 Single Lens B to Lens L in Single | |
| Basic calibration Block: | | | V1(3M) V2(11W) | Calibration block: | CS |
| Search Unit: | | | Manufacturer: GE | Technique: | Contact Manual |
| Angle: | 0 | 45 | 60 | 75 | Joint Sketch |
| SL No: | | | | | |
| Dimension: | | | | 134/67 | |
| Frequency: | | | | 2.25 MHz | |
| Sensitivity: | | | | S2 | |
| Ref gain: | | | | S2 | |
| Range: | | | | 1200369 | Scanning Employed From: A |



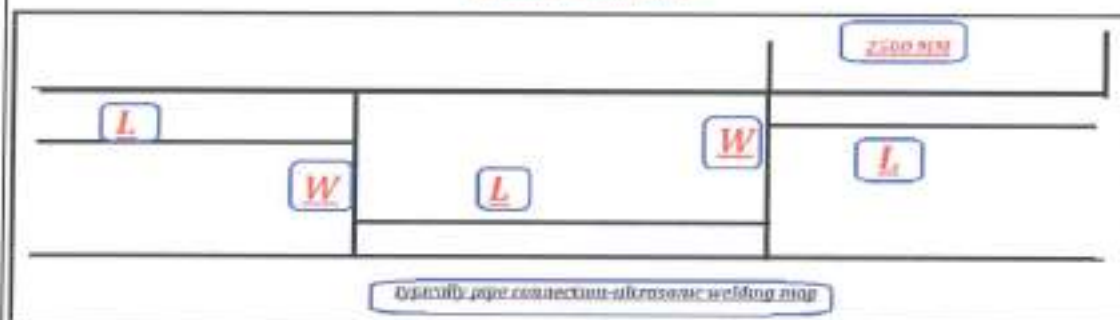
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 11(27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W12(30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W13(32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W14(35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W15(37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W16(40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 17(42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W18(45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W19(47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W120(50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>> AS per welder certificate registered to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity

EP-Excess penetration GP-Gas Penetration CDM-Corrosion

BSR-Before stress relief ASR-After stress relief

| | | |
|-----------------------------|-------------|-------|
| NDE Inspector | Approved by | OTHER |
| Name:- Eng. Abdel Dayem Ali | Name:- | |
| Level:- II | Date:- | |
| Date:- | Signature:- | |
| Sign:- | | |

Eng. Abdul Dayem Ali
GM & CEO
Al Noor Engineering Services



Abdul Aziz Engineering Services
E.C. 2001 and Supervision Engineering
http://www.aes.ae

ULTRASONIC EXAMINATION REPORT



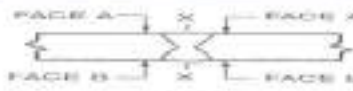
المركز الهندسي
للإشراف والتفتيش والاختبار
مؤسس عبد العزيز آل سعود

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطر الكهربائي السريع (المنطقة - بطروح) - برج رقم (55+115) | AIS Form No. | 2014-000 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | 2014-000 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 20/10/2014 |
| Contractor: | القطر الكهربائي السريع | Rev. | 1 |

| | | | | | |
|------------------------------------|------------------|-------------|----------------------|--------------------|---------|
| Drp. No.: | Mark/Item no.: | As Is/After | Joint Type: | Ratio/Type | Thk.: |
| Reference Procedure Specification: | | 2014-000 | | Surface Condition: | 12.7 mm |
| Surface Temp.: | As Is/After | | Acceptance criteria: | | 100% |
| Heat Treatment: | 1 / 1001 / 1 A90 | | Weld Process: | | 100% |

Equipment & Technique

| | | | | | |
|----------------------------|----------|---------|----------|--------------------|-----------------------------------|
| Model: | CTI 1000 | SL No.: | 2014-000 | Manufacturer: | Chubb |
| Couplant type: | WATER | Part: | | Cable Type: | 4 Single Lines 10 to 12 mm Length |
| Basic calibration (Block): | | | | Calibration block: | V1 |
| Search Dist.: | | | | Technique: | Contact Manual |
| Angle: | 45 | 45 | 45 | Joint Sketch: | |
| SL No.: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |



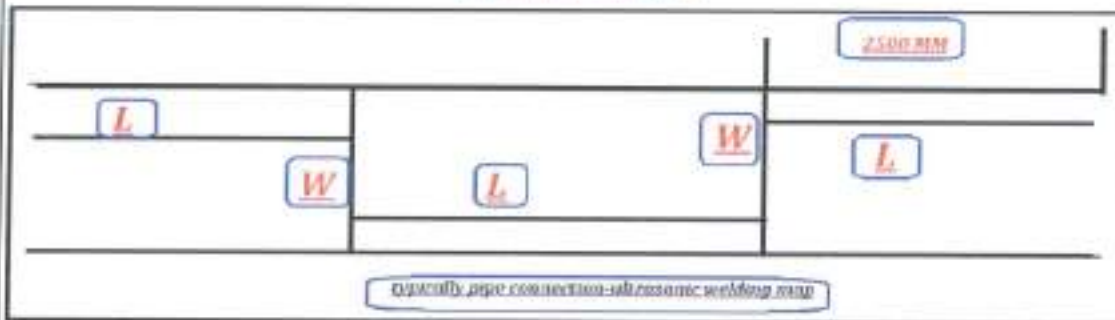
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 21(52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W22(55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W23(57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W24(60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W25(62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W26(65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 27(67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W28(70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W29(72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W30(75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S 100% As per welder certificate submitted to us.

Ultrasonic Welding Map



| | | | | |
|--------------------------------|---------------------------|----------------------|---------|------------|
| CB-Crude | IP-Incomplete penetration | IF-Incomplete fusion | SL-Slag | P-porosity |
| EP-Excess penetration | CP-Cluster Porosity | CD-Consistency | | |
| BSB-Bottom stress relief | ASB-Absorption | | | |
| RDE Inspector | | | | OTHER |
| Name:- Eng. Abdul Aziz Mohamed | Approved by | | | Name:- |
| Level:- II | Signature | | | Signature |
| Date:- | Date:- | | | Date:- |
| Sign:- | Sign:- | | | Sign:- |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|-------------|
| Project Name: | مشروع القطار الكهربائي السريع (المنطقة - مطروح) - برج رقم (SS+415) | AES Form No. | AES-F-000 |
| Owner: | وزارة النقل - هيئة القناة للطرق والجسور والفلج البحري | Report No. | 2023-UT-018 |
| Consultant: | مكتب هندسة الاستشارات الهندسية | Date: | 27/03/2024 |
| Contractor: | القانوني عمرو و شري | Rev. | 0 |

| | | | | |
|------------------------------------|----------------|----------------------|--------------------|---------|
| Doc. No.: | Mark/Item no.: | Material: | Joint Type: | Thick.: |
| Reference Procedure Specification: | ASME B31.3 | SA-508 F305 | Butt, fillet | 27.2 mm |
| Surface Temp.: | Fluid Temp.: | Acceptance criteria: | Surface Condition: | Welded |
| Heat Treatment: | (1/300) 1 ACP | Weld Process: | | AWP |

Equipment & Technique

| | | | | | |
|--------------------------|--------------|---------------|--|--------------------|----------------|
| Model: | CP-1000 | SL No.: | 54330111000 | Manufacturer: | CS&S |
| Couplant type: | Water | Cable Type: | 4 Single Lines 88 in Lines 2 in Length | Calibration block: | V1 |
| Basic calibration block: | Search Disk: | Manufacturer: | GB | Technique: | Contact Manual |
| Angle: | 0 | 45 | 60 | 75 | Joint Sketch |
| SL No.: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |

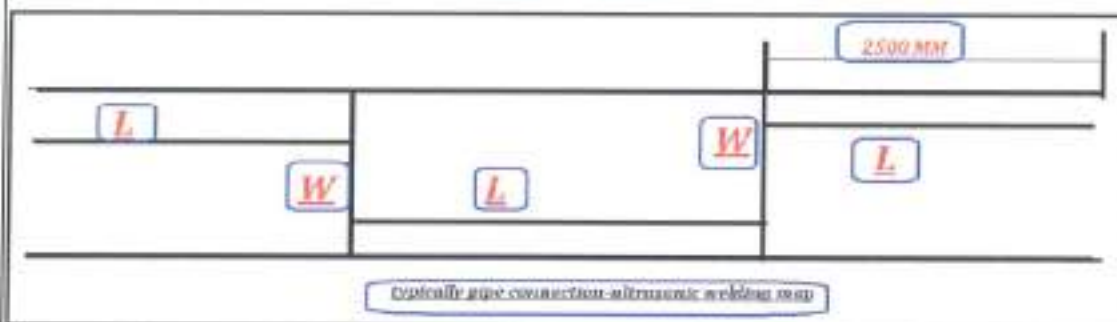
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 31(77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W32(80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W33(82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W34(85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W35(87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W36(90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 37(92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W38(95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W39(97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W40(100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S as per welder certificate supervision.

Ultrasonic Welding Map



| | | | | |
|----------------------------|---------------------------|----------------------|---------|------------|
| CB-Crack | IP-Incomplete penetration | IF-Incomplete Fusion | SL-Slag | P-porosity |
| EP-Excess penetration | CP-Caster Porosity | CON-Cavosity | | |
| BSL-Before stress relief | ASR-After stress relief | | | |
| ADE Inspector | | Approved by | | OTHER |
| Name: Eng. Mohamed Mohamed | | Name: | | |
| Level: II | | Date: | | |
| Date: | | Date: | | |
| Sign: | | Sign: | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع إنشاء الجسر المعلق (المنطقة - طريق) - جسر 415 (55) | AES Form No. | AES-0000 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | 000-RT-013 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 20/10/2014 |
| Contractor: | التقويم عمر و علي | Rev. | 0 |

| | | | | | |
|------------------------------------|-------------------|--------------------------|----------------|------|---------|
| Dr. No.: | Blank/Item no. | Joint Type: | Blank/Item no. | Thi: | 22.7 mm |
| Reference Procedure Specification: | ASNT SNT-304 | Surface Condition: | Smooth | | |
| Surface Temp: | Blank/Item no. | Acceptance or Rejection: | ASNT | | |
| Heat Treatment: | 1 - 2000 1 - ASNT | Weld Process: | PC430 | | |

| Equipment & Technique | | | | | |
|--------------------------|-----------------|-------------|------------------------------------|--------------------|-------|
| Model: | CT1000 | SL No: | 543210123456 | Manufacturer: | Chaco |
| Couplant type: | Weld PAPER | Cable Type: | 4 Single Lines 0.0 to 1.0 m Length | Calibration block: | V1 |
| Basic calibration Block: | V1(100) V2(100) | Technique: | Contact Method | | |
| Search Test: | | Waveform: | GB | | |
| Angle: | 0 | 45 | 60 | 75 | |
| SL No: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |

Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 41(102.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W42(105) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W43(107.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W44(110) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W45(112.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W46(115) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 47(117.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W48(120) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W49(122.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W50(125) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate reported to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity
 RP-Excess penetration CP-Cluster Porosity CON-Cavosity
 BSB-Below stress relief ASR-Above stress relief

| | | |
|------------------------|-------------|-------|
| SDE Inspector | Approved by | OTHER |
| Name- Eng. Abdul Wahab | Name- | |
| Level- II | Level- | |
| Date- | Date- | |
| Sign- | Sign- | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|---------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (العين شعبة - طريق 55+115) | AES Form No.: | AES-F-1000 |
| Owner: | وزارة النقل - هيئة العامة للغرق والتفريغ والنقل الجوي | Report No.: | AES-UT-012 |
| Consultant: | مكتب مهندسي استشارات الهندسية | Date: | 27/3/2024 |
| Contractor: | التفريغ بحرق وحقن | Rev.: | 0 |

| | | | | | |
|------------------------------------|----------------|-------------|----------------------|--------------------|---------|
| Drp. No.: | Mark/Item no.: | Lot Number: | Joint Type: | Expt. Title: | Thk.: |
| Reference Procedure Specification: | | | | Surface Condition: | Brushed |
| Surface Temp.: | Expt. Temp.: | | Acceptance criteria: | | ASME |
| Heat Treatment: | (/ 1800) | ASME | Weld Process: | | SAW |

Equipment & Technique

| | | | | | |
|--------------------------|------------|------------------|--------------------|-------------------------------------|---------------------------|
| Model: | CTS 5000 | St. No.: | 933140140000 | Manufacturer: | CTS |
| Couplant type: | WEL FASTER | Probe: | | 4 Single Crystal 0.5 to 1 in Length | |
| Basic calibration block: | | VII(III) VII(IV) | Calibration block: | VI | |
| Search Unit: | | Manufacturer (G) | Technique: | Contact Manual | |
| Angle: | 0 | 42 | 50 | 56 | |
| St. No.: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |
| | | | | | Scanning Employed From: A |

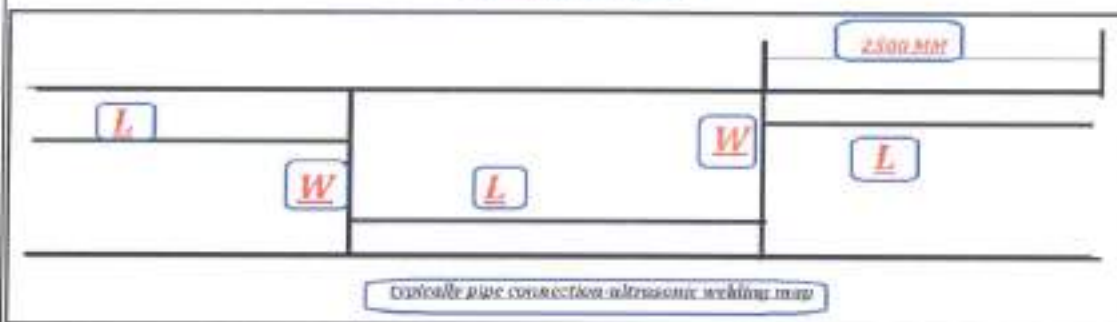
Calibration sheet attached: ☒ Yes ☐ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 3 | W 51(127.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W52(130) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W53(132.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W54(135) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W55(137.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W56(140) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 57(142.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W58(145) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W59(147.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S = As per welder certificate reported to us.

Ultrasonic Welding Map



CB-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity
EP-Excess penetration CP-Cluster Porosity CSN-Consistency
BSR-Before stress relief ASR-After stress relief

| | | |
|-----------------------------|-------------|-----------|
| RDE Inspector | Approved by | OTHER |
| Name- Eng. Abdelhak Mohamed | Signature | Signature |
| Level- II | Signature | Signature |
| Date: | Date: | Date: |
| Sign: | Sign: | Sign: |



Al-Noor Engineering services

Al-Noor Engineering Services

DT, NDT and Supervision Engineering

Eng./ Abdul dayem Ali



Al-Noor Engineering services

النور للخدمات الهندسية

للإختبارات الإتلافية والغير إتلافية والإشراف الهندسي

مهندس /عبدالدايم علي

TEST REPORTS

FOR VENT NO.4

Project Name:

مشروع القطار الكهربائي السريع (العين السخنة -مطروح) - بربخ كم
(55+415)

Client:

وزارة النقل - الهيئة العامة للطرق والكباري والنقل البري

Consultant:

مكتب سيسترا للإستشارات الهندسية

Contractor:

شركة الفاروق عمرو وعلي

AES ENGINEERING SERVICES

النور للخدمات الهندسية



Al-Noor Engineering services

Giza, El-Haram St. , El-3areesh St. , Building No. 16 , Floor 15

الجيزة - شارع الهرم -شارع العريش - صواره رقم 16 -النور الثامن -شقه رقم 15

Mob. : (+2)01015130467 - (+2)01205666820

Email: aes.alnoor@gmail.com , Abdou_ali2011@yahoo.com



Al-Noor Engineering services

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (لنوع السكة بطول 155+415) | AES Form No. | AES-F-008 |
| Owner: | وزارة النقل، الهيئة العامة للغرق والتفويض والنقل العرب | Report No. | AES-UT-008 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | التفويض بحرم وحي | Rev. | 0 |

| | | | | | |
|------------------------------------|---------------|----------------------|-------------|-----|--------|
| Drp. No.: | Mark/Item no. | Joint Type | Spec/Filter | Th. | SL No. |
| Reference Procedure Specification: | AES-UT-001 | Surface Condition: | Brushed | | |
| Surface Temp. | Room Temp. | Acceptance criteria: | AES | | |
| Heat Treatment: | 17/1850 > 400 | Weld Process: | GTAW | | |

Equipment & Technique

| | | | | | |
|--------------------------|-----------------|--------------------|----------------|--------------------------------------|----------------|
| Model: | CT-1000 | SL No. | 2023/11/15/001 | Manufacturer: | Shimadzu |
| Couplant type: | Weld PAPER | Part: | | 4 Single-Lumen 0.6 to 1.0 in. Length | |
| Basic calibration Block: | V1(100) V2(100) | Calibration block: | 10 | Technique: | Contact Manual |
| Search Unit: | | Manufacturer: | GE | Joint Sketch: | |
| Angle: | 6 | SL No. | 60 | 70 | |
| SL No. | | | 134/07 | | |
| Dimension: | | | 82*62 | | |
| Frequency: | | | 2.25 MHz | | |
| Sensitivity: | | | 72 | | |
| Ref gain: | | | 52 | | |
| Range: | | | 1500mm | | |
| Scanning Employed From: | A | | | | |

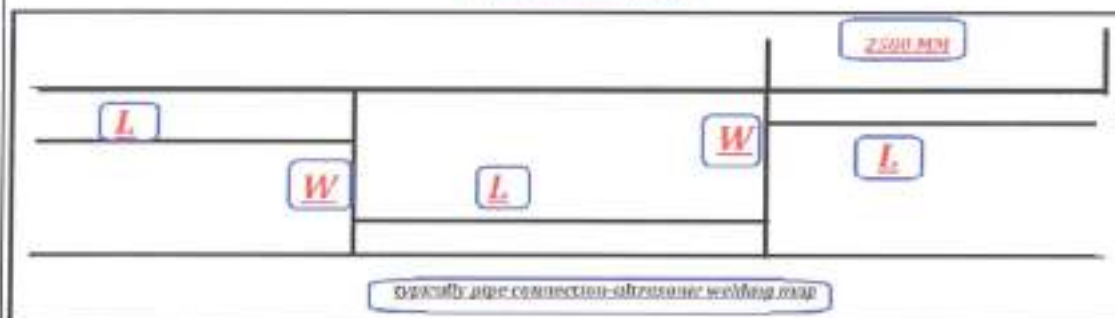
Calibration sheet attached: () Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | L 1(0-2.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 2(2.5-5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 3(5-7.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 4(7.5-10) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 5(10-12.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 6(12.5-15) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 7(15-17.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 8(17.5-20) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 9(20-22.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 10(22.5-25) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S **** As per welder certificate submitted to us.

Ultrasonic Welding Map



CR-Crack IF-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity

EP-Excess penetration CP-Cluster Porosity CON-Contamination

BSR-Before stress relief ASR-After stress relief

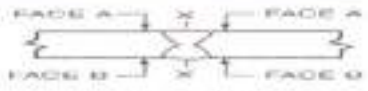
| | | |
|--------------------------------|--------------------------------|--------------------------------|
| NDI Inspector | Approved by | OTHER |
| Name: Eng. Abdul Wahab Mohamed | Name: Eng. Abdul Wahab Mohamed | Name: Eng. Abdul Wahab Mohamed |
| Level: II | Level: II | Level: II |
| Date: | Date: | Date: |
| Sign: | Sign: | Sign: |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع الطرق السريعة (المنطقة - طريق -) بروج 55+115 | AES Form No. | 001-0-000 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والنقل الجوي | Report No. | 001-01-000 |
| Consultant: | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | القانون العربي | Rev. | 0 |

| | | | | | | |
|------------------------------------|------------|---------------|----------------------|---------------|----------|---------|
| Fig. No. | Mark/Notes | As before | Joint Type | Basic Profile | Th. | 22.7 mm |
| Reference Procedure Specification: | | AES-017-001 | Surface Condition: | | Accepted | |
| Surface Temp. | | Room Temp. | Acceptance criteria: | | 100% | |
| Heat Treatment: | | 17/105R/1-100 | Weld Process: | | Weld | |

Equipment & Technique

| | | | | | | |
|--------------------------|-----------|------------------|-------------|------------|--|----------------|
| Model: | CTS 5000 | SL No: | 001/01/000 | | Manufacturer: | Chau |
| Coil type: | Wet PAPER | Probe: | Cable Type: | | 4 Single Lens 00 to Lens 1 in Length | |
| Basic calibration Block: | | | V100W V100H | | Calibration block: | F1 |
| Search Unit: | | Manufacturer: GB | | Technique: | | Conform Manual |
| Angle | 0 | 45 | 60 | 70 | Joint Sketch | |
| SL No | | | | 174/87 |  | |
| Dimension | | | | 52"x62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Rel gate | | | | 52 | | |
| Range | | | | 1546/90 | Scanning depth from A | |

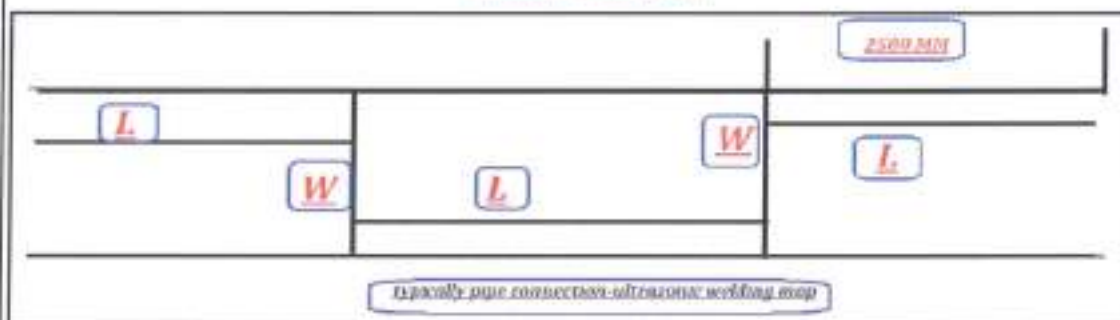
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | L 11(25-27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 12(27.5-30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 13(30-32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 14(32.5-35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 15(35-37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 16(37.5-40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 17(40-42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 18(42.5-45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 19(45-47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 20(47.5-50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate requested from.

Ultrasonic Welding Map



CR-Check IP-Complete penetration IF-Incomplete Fusion SL-Slag P-porosity

BP-Excess penetration CP-Cluster Porosity CDN-Consistency

RSR-Release stress relief ASR-After stress relief

| | | |
|-------------------------|--------------|---------|
| AES Inspector: | Approved by: | OTHER |
| Name:- Eng. Abdul Wahab | Name:- | Name:- |
| Level:- II | Level:- | Level:- |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|--------------|
| Project Name: | مشروع القطار الكهربائي السريع (المنطقة -مطروح-) -برج 4م (55+415) | AES Form No. | AEI-2 004 |
| Owner | وزارة النقل - الهيئة العامة للطرق والكباري والنقل الجوي | Report No. | AEI-017-0001 |
| Consultant | مكتب مستشاري الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor | الفرع عمر و علي | Rev. | 0 |

| | | | | | | |
|------------------------------------|------------------|-----------|----------------------|-------------|-----|---------|
| Int. No. | Mark/Version no. | Is before | Test Type: | Basic Value | Th. | 22.7 mm |
| Reference Procedure Specification: | ASNT-400 | | Surface Condition: | Good | | |
| Surface Temp. | Room Temp. | | Acceptance criteria: | ASNT | | |
| Heat Treatment: | 1. 200°C 1. ASNT | | Weld Process: | GTAW | | |

Equipment & Technique

| | | | | | |
|--------------------------|------------|--------------------|---------------|-----------------------------------|----------------|
| Model: | PTI 5000 | SL No. | 545310-1-1010 | Manufacturer: | Chen |
| Compliment type: | Weld PAPER | Factor: | | 4 Single Lens 80 to 100 mm length | |
| Basic calibration Block: | | Calibration Block: | VI | Technique: | Contact Manual |
| Search Unit: | | Manufacturer: | GB | Joint Sketch: | |
| Angle | 0 | 45 | 60 | 70 | |
| SL No. | | | 124/87 | | |
| Dimension | | | 60°/62° | | |
| Frequency | | | 2.25 MHz | | |
| Sensitivity | | | 52 | | |
| Ref gain | | | 52 | | |
| Range | | | 1556mm | | |

| | | |
|-----------------------------|---|-----------------------------|
| Calibration sheet attached: | ☒ Yes | ☐ No |
|-----------------------------|---|-----------------------------|

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|---------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | L 21(50-52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 22(52.5-55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 23(55-57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 24(57.5-60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 25(60-62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 26(62.5-65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 27(65-67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 28(67.5-70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 29(70-72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 30(72.5-75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>>> As per welder certificate registered to us.

Ultrasonic Welding Map



CR-Crash IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity

EP-Excess penetration CP-Cluster Porosity CBN-Cavinity

BSR-Before stress relief ASR-After stress relief

| NDE Inspector | | Approval | | OTHER | |
|------------------------------|-----------------------|----------|--|---------|--|
| Name:- Eng. Abdallah Mohamed | Eng. Abdallah Mohamed | Name:- | | Name:- | |
| Level:- II | Level:- II | Level:- | | Level:- | |
| Date:- | Date:- | Date:- | | Date:- | |
| Sign:- | Sign:- | Sign:- | | Sign:- | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع انشاء الكهرمان السريع (لبنان - المنطقة - حطرون) - برج رقم (55+115) | AES Form No. | AES-F-004 |
| Owner | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | AES-RT-004 |
| Consultant | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor | الشارع عمر و علي | Rev. | 0 |

| | | | | | | |
|------------------------------------|---------------|----------|----------------------|---------------|------|---------|
| Drp. No: | Mark/Spec no: | As below | Joint Type: | Weld (Fillet) | Thk: | 22.7 mm |
| Reference Procedure Specification: | AES-07-001 | | Surface Condition: | Brushed | | |
| Surface Temp: | Room Temp | | Acceptance criteria: | AES | | |
| Heat Treatment: | 1. HSR 1.454 | | Weld Process: | ES-001 | | |

Equipment & Technique

| Equipment & Technique | | | | | | |
|--------------------------|------------|--------|------------------|-----------|--|----------------|
| Model: | CTI 1005 | SL No: | 2573204/1204 | | Manufacturer: | CECON |
| Coil type: | Weld PAPER | Probe: | Cable Type: | | 4 Single Lens 50 to 100 mm in length | |
| Basic calibration Block: | | | V18(W) V21(HF) | | Calibration Mode: | IT |
| Search Unit: | | | Wave Factor: 0.8 | | Technique: | Contact Method |
| Angle | 0 | 45 | 60 | 75 | Joint Sketch | |
| SL No | | | | 114/57 |  | |
| Dimension | | | | 3.5"x6.2" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 1500/600 | Scanning Depth: From 1.4 | |

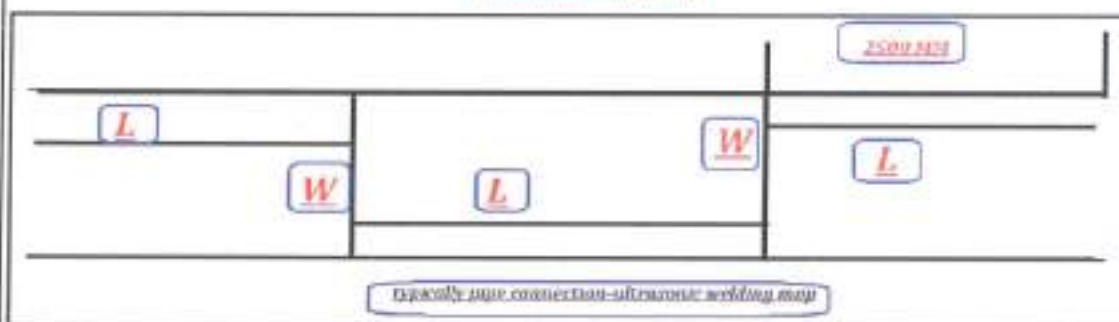
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|----------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | L 31(75-77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 32(77.5-80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 33(80-82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 34(82.5-85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 35(85-87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 36(87.5-90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 37(90-92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 38(92.5-95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 39(95-97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | L 40(97.5-100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S 100% As per welder certificate reported to us.

Ultrasonic Welding Map



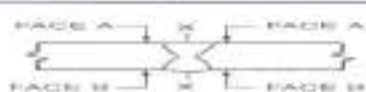
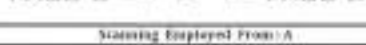
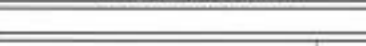
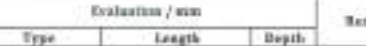
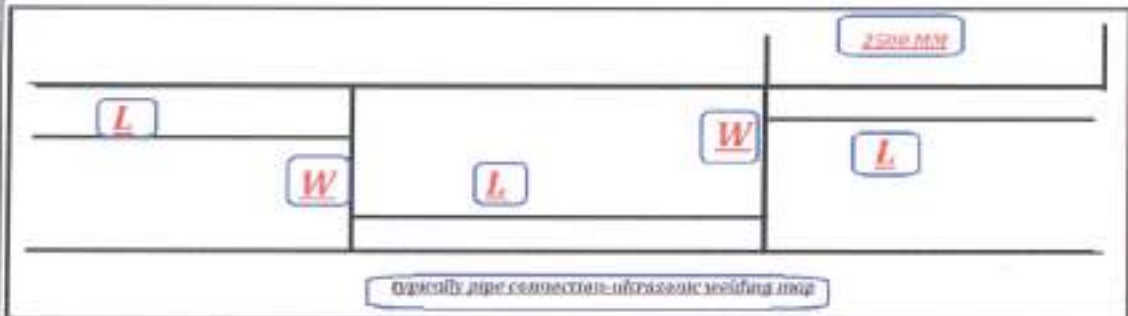
CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

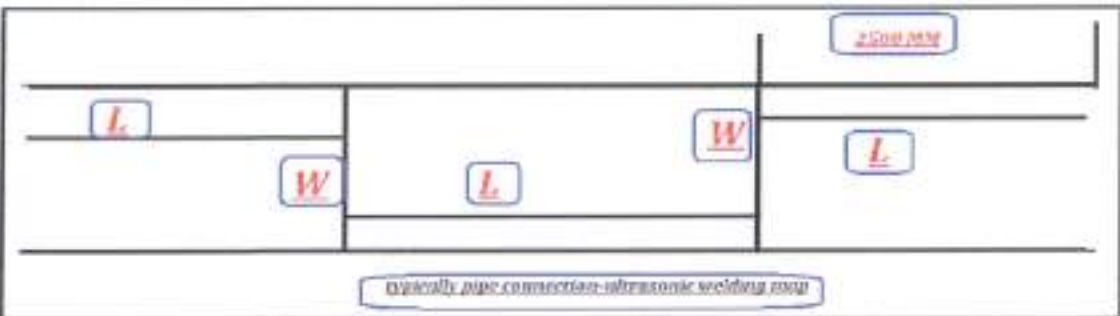
EP-Excess penetration CP-Cluster Porosity COG-Corrosion

BSR-Before stress relief ASR-After stress relief

| NDT Inspector | Approved by | OTHER |
|------------------------------|-------------|--------|
| Name:- Eng. Abdelhak Mohamed | Name:- | Name:- |
| Level:- II | Level:- | |
| Date:- | Date:- | Date:- |
| Sign:- | Sign:- | Sign:- |

Al-Noor Engineering Services

| 
<small>Advanced Engineering Services</small>
<small>101, 107 and 108/109 Engineering</small>
<small>101, 107 and 108/109 Engineering</small> | | <h2 style="text-align: center;">ULTRASONIC EXAMINATION REPORT</h2> | | 
<small>Advanced Engineering Services</small>
<small>101, 107 and 108/109 Engineering</small>
<small>101, 107 and 108/109 Engineering</small> | | |
|---|------------------|--|---|---|--------------------------|------|
| Project Name: | | مشروع الكباري السريع (الجزء الثالثة - الطريق 1 - جراج 4م) (55+415) | | AES Form No. : AES-006 | | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والكباري و النقل البري | | Report No. : AES-07-005 | | |
| Consultant: | | مكتب سبيس للاستشارات الهندسية | | Date: 17/11/2023 | | |
| Contractor: | | الفرقعة بحري و شري | | Rev: 0 | | |
| Org. No.: | Mark/Item no.: | Lot No.: | Joint Type: | Thick.: | Thick.: | |
| Reference Standard Specification: | Surface Temp.: | Surface Condition: | Acceptance criteria: | Weld Process: | Thick.: | |
| Heat Treatment: | Heat Treatment: | Heat Treatment: | Heat Treatment: | Heat Treatment: | Heat Treatment: | |
| Equipment & Technique | | | | | | |
| Model: | SL No.: | Manufacturer: | Cable Type: | | | |
| Couplant type: | Part Part: | Part: | Calibration Block: | | | |
| Basic calibration Block: | | Calibration Block: | | Technique: | | |
| Search Unit: | Manufacturer: US | | Contact Manual | | | |
| Angle: | 0 | 45 | 60 | 75 | Joint Sketch | |
| SL No.: | 134/57 | |  | | | |
| Dimension: | 62" x 62" | |  | | | |
| Frequency: | 2.25 MHz | |  | | | |
| Sensitivity: | 52 | |  | | | |
| Ref gain: | 52 | |  | | | |
| Range: | 150/240 | |  | | | |
| Calibration sheet attached: () Yes () No | | | | | | |
| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | |
| | | | | | Type Length Depth Result | |
| Vent 4 | L 41(100-102.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 42(102.5-105) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 43(105-107.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 44(107.5-110) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 45(110-112.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 46(112.5-115) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 47(115-117.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 48(117.5-120) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 49(120-122.5) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| | L 50(122.5-125) | 22.7 mm | A.P.W.C.S | 100% | | Acc. |
| Remarks: | | A.P.W.C.S - As per welder certificate registered to us. | | | | |
| Ultrasonic Welding Map | | | | | | |
|  | | | | | | |
| <small>CR-Crack IP-Incomplete penetration IF-Incomplete fusion SL-Slag P-porosity</small>
<small>EP-Excess penetration CP-Clash Porosity COW-Convexity</small>
<small>RSD-Before stress relief ASR-After stress relief</small> | | | | | | |
| MDE Inspector: | | Approved by: | | OTHER: | | |
| Name: Eng. Alaid elsh Mohamed | | Name: | | Name: | | |
| Level: II | | Level: | | Level: | | |
| Date: | | Date: | | Date: | | |
| Sign: | | Sign: | | Sign: | | |

| 
<small>Advanced Engineering Services</small>
<small>AE, NDT and Supervision Engineering</small>
<small>Eng. Abdul Salam Ali</small> | | <h1>ULTRASONIC EXAMINATION REPORT</h1> | | 
<small>الخدمات الهندسية</small>
<small>مقدمتها: الهندسة والفحص والتفتيش</small>
<small>مهندس: عبد السلام علي</small> | | | | |
|--|-----------------|--|-------------|---|-----------------|---------|-------|--------|
| Project Name: | | مشروع القطار الكهربائي السريع (العين السخنة - طابوخ) - [مراح 4+55] | | AES Form No. | | | | |
| Owner: | | وزارة النقل - الهيئة العامة للطرق والكباري والنقل الجوي | | Report No. | | | | |
| Consultant: | | مكتب سيميرا للاستشارات الهندسية | | Date: | | | | |
| Contractor: | | الطاروق مصر. وش.م | | Rev. | | | | |
| Org. No.: | | Mark/Trace no.: | | Joint Type: | | | | |
| Reference Procedure Specification: | | ASME | | Surface Condition: | | | | |
| Surface Type: | | ASME | | Acceptance criteria: | | | | |
| Heat Treatment: | | E/1881 / ASME | | Melt Process: | | | | |
| Thk.: | | 122.7 mm | | | | | | |
| <h2>Equipment & Technique</h2> | | | | | | | | |
| Model: | | SL No.: | | Manufacturer: | | | | |
| Displacement type: | | Cable Type: | | 4 Single Lens 00 to Lens 1 in Length | | | | |
| Basic calibration Block: | | V100W V210W | | Calibration block: | | | | |
| Search Unit: | | Manufacturer: GI | | Technique: | | | | |
| Angle: | | 70 | | Joint Sketch: | | | | |
| SL No.: | | 134/67 | |  | | | | |
| Dimension: | | 82x62 | | | | | | |
| Frequency: | | 2.25 MHz | | | | | | |
| Sensitivity: | | 52 | | | | | | |
| Ref gain: | | 52 | | | | | | |
| Range: | | 150x360 | | Scanning Displayed From: A | | | | |
| Calibration sheet attached: () Yes () No | | | | | | | | |
| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
| | | | | | Type | Length | Depth | |
| Vent 4 | L51(125-127.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 52(127.5-130) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 53(130-132.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 54(132.5-135) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 55(135-137.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 56(137.5-140) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 57(140-142.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L58(142.5-145) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L59(145-147.5) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| | L 60(147.5-150) | 22.7 mm | A.P.W.C.S | 100% | | | | Acc. |
| Remarks: | | A.P.W.C.S ---- As per welder certificate requested is as. | | | | | | |
| <h2>Ultrasonic Welding Map</h2> | | | | | | | | |
|  | | | | | | | | |
| <small>CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-Porosity</small>
<small>EP-Excess penetration CP-Cluster Porosity COR-Corrosion</small>
<small>BSR-Before stress relief ASR-After stress relief</small> | | | | | | | | |
| NDE Inspector | | | Approved by | | | OTHER | | |
| Name:- Eng. Abdul Salam Mohamed | | | Name:- | | | Name:- | | |
| Level:- II | | | Level:- | | | Level:- | | |
| Date:- | | | Date:- | | | Date:- | | |
| Sign:- | | | Sign:- | | | Sign:- | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع التفتيش الكهربي السريع (تحت الضغط - مطروح) - برج رقم (55+81.5) | AES Form No. | AE5-F-006 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات والنقل البري | Report No. | AE5-RT-002 |
| Consultant: | مكتب ميسرا للاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | الطريق عبر دغلي | Rev. | 0 |

| | | | | | | | |
|------------------------------------|--|------------------|-----------|----------------------|------------|------|---------|
| Div. No. | | Mark/Volume | As before | Joint Type: | Butt Joint | Thk. | 22.7 mm |
| Reference Procedure Specification: | | 201.001.001 | | Surface Condition: | Excellent | | |
| Interface Temp. | | Room Temp. | | Acceptance criteria: | ASNT | | |
| Heat Treatment: | | 1 / 305R (1-ASB) | | Weld Process: | ES/30 | | |

Equipment & Technique

| | | | | | | |
|--------------------------|-----------|------------------|--------------|-------------|--|----------------|
| Model: | PTS 5000 | SL No. | 015100111001 | | Manufacturer: | Siemens |
| Coaxial type: | W&B PAPER | Probe | Cable Type: | | 4 Single Lines 80 to 100m Length | |
| Basic calibration Block: | | | VL(RW) V2318 | | Calibration Mode: | V1 |
| Search Unit : | | Manufacturer: GE | | Technique : | | Contact Manual |
| Angle | 11 | 40 | 60 | 70 | Joint Sketch | |
| SL No. | | | | 134/87 |  | |
| Dimension | | | | 8.2"x.6.2" | | |
| Frequency | | | | 3.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 1504/100 | Scanning Depth from: A | |

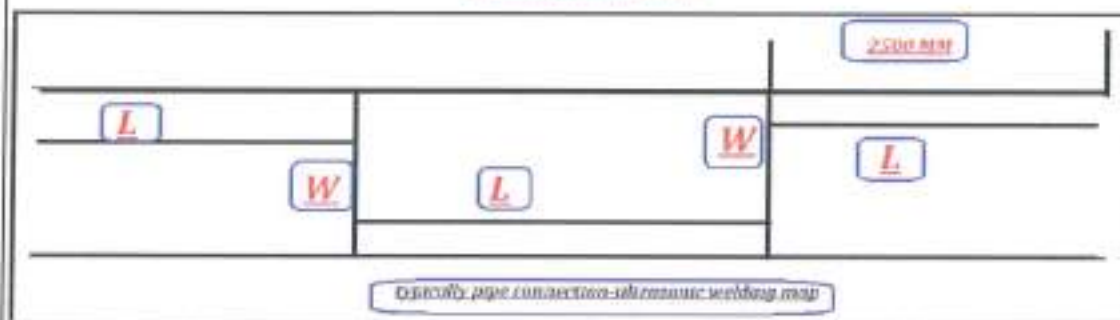
Calibration sheet attached () Yes (/) No

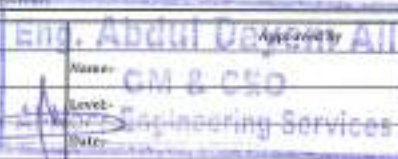
| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-----------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 1(2.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W2(5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W3(7.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W4(10) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W5(12.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W6(15) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 7(17.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W8(20) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W9(22.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W10(25) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>> As per welder certificate submitted to us.

Ultrasonic Welding Map



| | | | | |
|-----------------------------|---|---|---------|------------|
| CR-Crack | IP-Incomplete penetration | IF-Incomplete Fusion | SL-Slag | P-porosity |
| EP-Excess penetration | GP-Grain Porosity | GM-Gas cavity | | |
| BSB-Bubble stress void | ASB-Air stress void | | | |
| MSE Inspector |  | | | OTHER |
| Name:- Eng. Abdul Qader Ali | Name:- |  | | |
| Level:- II | Level:- | GM & CEO | | |
| Date:- | Date:- | Engineering Services | | |
| Sign:- | Sign:- | | | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع - (تحت سلة - مطروح) - (55+81.5) كم | AES Form No. | AES-F-006 |
| Owner | وزارة النقل - الهيئة العامة لطرق ووسائل النقل | Report No. | AES-UT-000 |
| Consultant | مكتب مهندسي الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor | القانوني محمد راضي | Rev. | 0 |

| | | | | | | |
|------------------------------------|--------------------|----------|----------------------|-------------|------|---------|
| Doc. No. | Mark/Item no. | Is below | Joint Type: | Exam. Files | Thk. | 12.7 mm |
| Reference Procedure Specification: | 202-07-001 | | Surface Condition: | | | Good |
| Surface Temp. | Room Temp. | | Acceptance criteria: | | | 100% |
| Heat Treatment: | 1 / 2018 () - ASB | | Weld Process: | | | EC205 |

| Equipment & Technique | | | | | |
|--------------------------|-------------|---------------|--------------|--|---------------------------|
| Model: | CTE-4000 | SL No. | 025100140004 | Manufacturer: | OMEGA |
| Coaxial type: | Weld FINDER | Probe | | 4 Single Lanes 00 to Lanes 1 in Length | |
| Basic calibration Block: | VII(III)F | Y2(III)W | | Calibration Mode: | VI |
| Search Unit: | | Manufacturer: | GE | Technique: | Contact Manual |
| Angle | 0 | 40 | 60 | 70 | |
| SL No. | | | | | |
| Dimension | | | | | |
| Frequency | | | | | |
| Sensitivity | | | | | |
| Ref gain | | | | | |
| Range | | | | | |
| | | | | | Scanning Employed From: A |

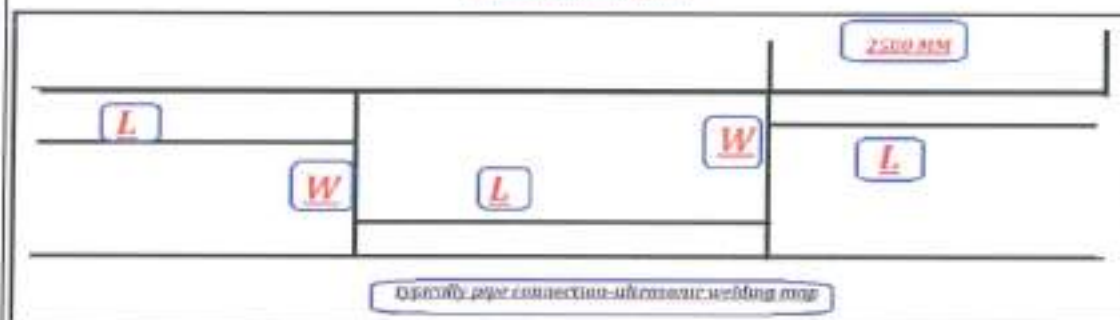
Calibration sheet attached: () Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 11(27.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W12(30) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W13(32.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W14(35) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W15(37.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W16(40) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 17(42.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W18(45) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W19(47.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W120(50) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>>> As per welder certificate suggested to us.

Ultrasonic Welding Map



CR-Crack IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Excess penetration GP-Cavities Porosity GBN-Cleanability

BSR-Before stress relief ASR-After stress relief

| ADE Inspector | Approved by | OTHER |
|---------------------------------|-------------|-------|
| Name:- Eng. Abdul Wahab Mohamed | Name:- | |
| Level:- B | Name:- | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |

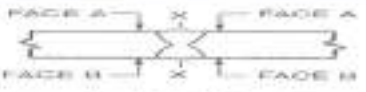
Signature:
Name: **Eng. Abdul Wahab Mohamed**
Level: **B**
Date: **17/11/2023**
Sign: **GM & CEO**
Ain Arafat Engineering Services

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع القطار الكهربائي السريع (المنطقة المقروحة) - برج 4 (55+815) | AES Form No. | 483.2-000 |
| Owner | وزارة النقل - الهيئة العامة للطرق والكباري وخدمات النقل | Report No. | 483-07-000 |
| Consultant | مكتب ميسر للاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor | القرقرى حورو وعلى | Rev. | 0 |

| | | | | | | |
|------------------------------------|--------------------|--------------|----------------------|----------------|-----|--------|
| Doc. No.: | Mark/Date rec: | As Is/As New | Join Type: | Welded / Fused | TR: | 2.7 mm |
| Reference Procedure Specification: | | AES-07-000 | Surface Condition: | Prepared | | |
| Surface Temp: | Probe Temp: | | Acceptance criteria: | 100% | | |
| Heat Treatment: | (/) HR (/) ASR | | Weld Process: | GTAW | | |

Equipment & Technique

| | | | | | |
|--------------------------|------------|--------|------------|--|---------------------------------|
| Model: | CTS 3000 | SL No: | 483-07-000 | Manufacturer: | CTS |
| Couplant type: | Weld Paste | Paste: | | Cable Type: | 4 Single Core 0.5 to 1 m Length |
| Basic calibration Block: | | | | Calibration block: | VL |
| Search Unit: | | | | Technique: | Contour Manual |
| Angle: | 45 | 60 | 75 |  | |
| SL No: | | | | | |
| Dimensions: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |

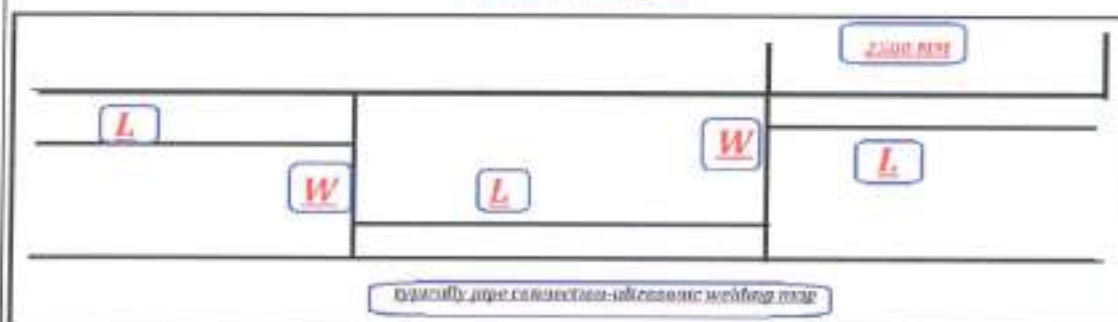
| | |
|-----------------------------|--------------------|
| Calibration sheet attached: | (/) Yes (/) No |
|-----------------------------|--------------------|

| Inve./Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|----------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 21(52.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W22(55) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W23(57.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W24(60) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W25(62.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W26(65) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 27(67.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W28(70) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W29(72.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W30(75) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>>> As per welder certificate submitted to us.

Ultrasonic Welding Map



CR=Crack IP=Incomplete Penetration IP=Incomplete Fusion SL=Slag P=porosity

CP=Excess penetration CP=Clutter Porosity CBN=Corrosion

BSR=Before stress relief ASR=After stress relief

| | | |
|---------------------------------|------------------|--------|
| MDE Inspector | Approved by | OTHER |
| Name:- Eng. Abdul Wahab Mohamed | Signature | Name:- |
| Level:- II | Level:- GM & CEO | |
| Date:- | Date:- | |
| Sign:- | Sign:- | |



AES Engineering Services
FE, VET and Supervisory Engineering
Reg. (Abdullah Ali)

ULTRASONIC EXAMINATION REPORT



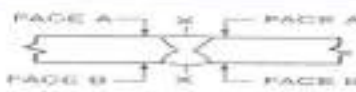
الهيئة العامة للغذاء والدواء
الهيئة العامة للغذاء والدواء
الهيئة العامة للغذاء والدواء

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع تطوير التوربينات السريع (تحت المظلة - مشروع) - برج 4 (55+4.5) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | AES-UT-008 |
| Consultant: | مكتب ميسرة للاستشارات الهندسية | Date: | 07/11/2018 |
| Contractor: | القطاع العام | Rev. | 0 |

| | | | | | |
|------------------------------------|--------------------|----------------------|----------------|-----|------------|
| Doc. No. | Blank/Revision | Issue Type | Blank/Revision | Thu | 07/11/2018 |
| Reference Procedure Specification: | AES-UT-001 | Surface Condition: | Blank/Revision | | |
| Surface Temp: | Blank/Revision | Acceptance criteria: | Blank/Revision | | |
| Heat Treatment: | (/) 300 (/) AS | Weld Process: | Blank/Revision | | |

Equipment & Technique

| | | | | | |
|--------------------------|-----------------|--------------------|------------|--------------------------------------|------------------|
| Model: | CTS 5000 | SL No: | AES-UT-001 | Manufacturer: | CTS |
| Complait type: | Weld PAPER | Part: | | 4 Single Lines (80 to 100) in length | |
| Basic calibration block: | V1(100) V2(100) | Calibration block: | V1 | Technique: | Cartesian Manual |
| Search Unit: | | Manufacturer: | CTS | | |
| Angle | 45 | 75 | | | |
| SL No | | | | | |
| Dimension | | | | | |
| Frequency | | | | | |
| Sensitivity | | | | | |
| Ref gain | | | | | |
| Range | | | | | |



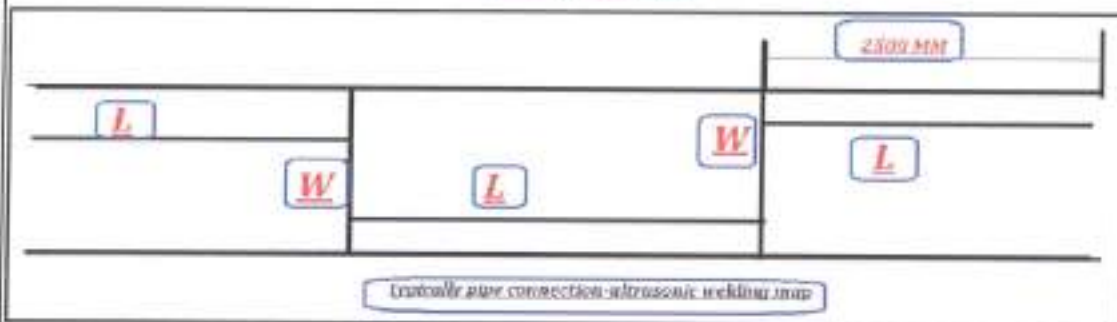
Calibration sheet attached: (/) Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 31(77.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W32(80) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W33(82.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W34(85) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W35(87.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W36(90) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 37(92.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W38(95) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W39(97.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W40(100) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>> As per welder certificate requested to us.

Ultrasonic Welding Map



CR-Crack IF-Incomplete penetration IF-Incomplete Fusion SL-Slag IF-porosity

EP-Eccentric penetration CP-Cluster Porosity COM-Consistency

BSR-Before stress relief ASR-After stress relief

| MDE Inspector | | Approved by | | OTHER | |
|---------------|--------------------------|-------------|-----------------|---------|--|
| Name:- | Eng. Abdul Wahid Mohamed | Name:- | Abdul Dayem Ali | Name:- | |
| Level:- | II | Level:- | OM & CEO | Level:- | |
| Date:- | | Date:- | | Date:- | |
| Sign:- | | Sign:- | | Sign:- | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|--|--------------|------------|
| Project Name: | مشروع تقوية الكهربي السريع (تقوية السطحة) - برج 4 (55+415) | ASS Form No. | ASS-001 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والمواصلات | Report No. | ASS-001-01 |
| Consultant: | مكتب ميسر للاستشارات الهندسية | Date: | 07/11/2013 |
| Contractor: | الشارع جرو ويلي | Rev. | 0 |

| | | | | | |
|------------------------------------|------------------|----------------------|---------------|------|---------|
| Spec. No.: | Blank/None | Joint Type: | Flare / Flare | Thi: | 22.7 mm |
| Reference Procedure Specification: | ASNT-911 | Surface Condition: | Smooth | | |
| Surface Temp: | Room Temp | Acceptance criteria: | ASNT | | |
| Heat Treatment: | 1 / 250°C / 1.5h | Weld Process: | EC10 | | |

Equipment & Technique

| | | | | | |
|--------------------------|------------|-----------------|-------------|--------------------|---------------------------------------|
| Model: | ET-5000 | SL No: | 001101-0100 | Manufacturer: | Omni |
| Complaint type: | Wall PAPER | Part: | | Cable Type: | 4 Single Lane (0) to Lane 1 in Length |
| Basic calibration Block: | | V1(00) / V2(10) | | Calibration block: | V1 |
| Search Unit: | | Manufacturer: | GT | Technique: | Direct Method |
| Angle: | 0 | 00 | 00 | 70 | Joint Sketch |
| SL No: | | | | | |
| Dimension: | | | | | |
| Frequency: | | | | | |
| Sensitivity: | | | | | |
| Ref gain: | | | | | |
| Range: | | | | | |



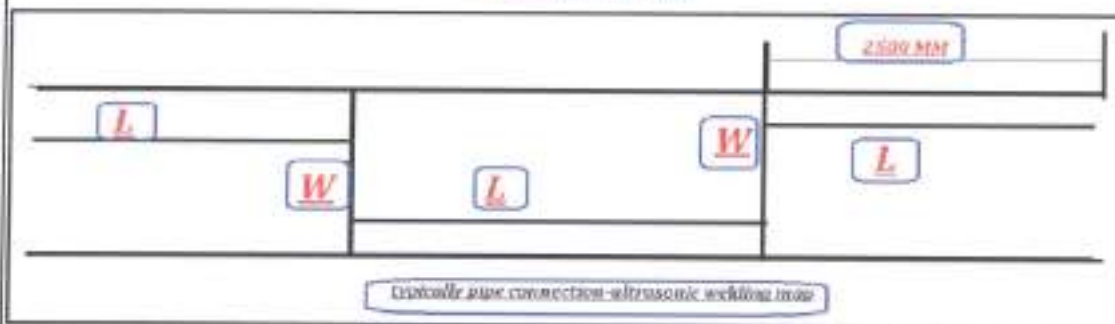
Calibration sheet attached: ☐ Yes ☒ No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 41(102.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 42(105) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 43(107.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 44(110) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 45(112.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 46(115) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 47(117.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 48(120) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 49(122.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 50(125) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:

A.P.W.C.S >>>> As per welder certificate registered to us.

Ultrasonic Welding Map



CR- Crack IF- incomplete penetration IR- Irregularity P- Porosity
EP- Excess penetration CP- Cluster Porosity CON- Contamination
BSR- Before stress relief ASR- After stress relief

| NDE Inspector | | Appraised by | | OTHER | |
|---------------|--------------------------|--------------|-----------------|--------|--|
| Name: | Eng. Abdulrahman Mohamed | Name: | Abdul Dayem Ali | Name: | |
| Level: | II | Level: | GM & CEO | Level: | |
| Date: | | Date: | | Date: | |
| Sign: | | Sign: | | Sign: | |

ULTRASONIC EXAMINATION REPORT

| | | | |
|---------------|---|--------------|------------|
| Project Name: | مشروع لتفتيش التوربينات البخارية (تأمين السطح الخارجى) - برج رقم (415+53) | AES Form No. | AES-F-004 |
| Owner: | وزارة النقل - الهيئة العامة للطرق والنقل الجوي | Report No. | AES-UT-012 |
| Consultant: | مكتب مستشار الاستشارات الهندسية | Date: | 17/11/2023 |
| Contractor: | التأجير بحري وخطي | Rev. | 0 |

| | | | | | | | |
|------------------------------------|--|------------------|------------|----------------------|--------------|-----|---------|
| Fig. No.: | | Mark/Item no.: | As before | Joint Type: | Butt / Flare | Th. | 22.7 mm |
| Reference Procedure Specification: | | | AES-UT-001 | Surface Condition: | Brushed | | |
| Service Temp: | | Busset Temp: | | Acceptance criteria: | ASME | | |
| Heat Treatment: | | () ASME () AAR | | Weld Process: | SAW | | |

Equipment & Technique

| | | | | | | |
|--------------------------|-----------|--------|-------------------|-----------|--|----------------|
| Model: | UT-1000 | SL No. | AES-1000-001 | | Manufacturer: | Chen |
| Coaxial type: | WAT PAPER | Probe | Cable Type: | | 4 Single Lens: 00 to Lens 1 in Length | |
| Basic calibration Block: | | | V1(100) V2(100) | | Calibration Block: | V1 |
| Search Unit : | | | Manufacturer: (S) | | Technique: | Contact Manual |
| Angle | 60 | 65 | 60 | 70 | Joint Sketch | |
| SL No. | | | | 331/07 |  | |
| Dimension | | | | 62" x 62" | | |
| Frequency | | | | 2.25 MHz | | |
| Sensitivity | | | | 52 | | |
| Ref gain | | | | 52 | | |
| Range | | | | 1500mm | Scanning Employed From: A | |

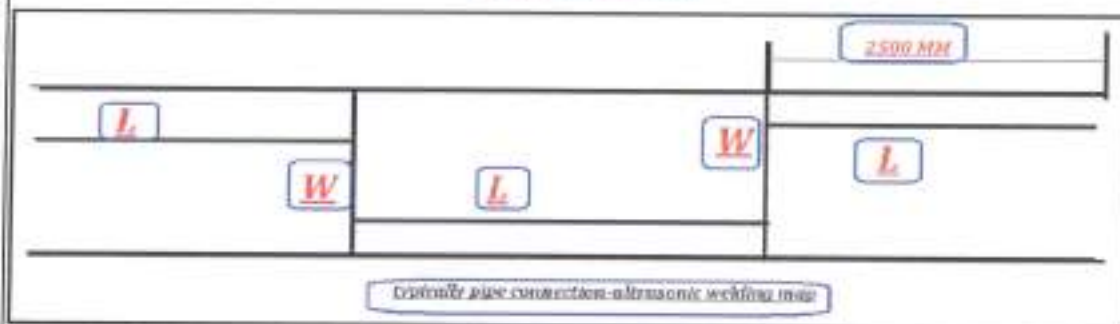
Calibration sheet attached: () Yes (/) No

| Item/Mark No. | Joint No. | Thickness | Welder ID | % of Inspection | Evaluation / mm | | | Result |
|---------------|-------------|-----------|-----------|-----------------|-----------------|--------|-------|--------|
| | | | | | Type | Length | Depth | |
| Vent 4 | W 51(127.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W52(130) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W53(132.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W54(135) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W55(137.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W56(140) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W 57(142.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W58(145) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |
| | W59(147.5) | 22.7 mm | A.P.W.C.S | 100% | ..... |  |  | Acc. |

Remarks:-

A.P.W.C.S >>>> As per welder certificate requested to us.

Ultrasonic Welding Map



CR-Cracks IP-Incomplete penetration IF-Incomplete Fusion SL-Slag P-porosity

EP-Cavities penetration EP-Cavities Porosity CON-Corrosion

BSR-Before stress relief ASR-After stress relief

| | | | | | |
|-------------------------------|--|-------------|--|---------|--|
| NDE Inspector | | Approved by | | OTHER | |
| Name:- Eng. Abdulhish Mohamed | | Name:- | | Name:- | |
| Grade:- II | | Grade:- | | Grade:- | |
| Date:- | | Date:- | | Date:- | |
| Sign:- | | Sign:- | | Sign:- | |

Eng. Abdul Dayem Ali
GM & CEO
AES Engineering Services

عملية بريخ عند كم (٤١٥+٥٥)

ضمن مشروع اعمال الجسر الترابي والاعمال الصناعية لمسار
القطار الكهربائي السريع (العين السخنة - مطروح)

حصر المستخلص رقم (١)

عن الشركة المنفذه :

مهندس / مجدي صبحي

(.....)

El Farouk Amr & Ali
ب.ض : ٠٧٦ - ٢١٩ - ٢٩٨
م.ض : ٠١٥٣ - ٢١٠ - ١٦ - ٢٥

عن مكتب الرائد استشاري المقاول

مهندس / م. السيد محمد

(.....)

عن مكتب سيسترا استشاري المالك

مهندس /

(.....)

اسم العملية : عملية بربخ عدد كم (55+415)
ضمن مشروع اعمال الجسر الترابي والاعمال الصناعية لمسار القطر الكهربائي السريع (العين المسخنة - مطروح)

تنفيذ شركة الفاروق عمرو و علي

| رقم البند | بند الاعمال | عدد القطع | مقاييس | | | مساحات المتكبات والاوزان | | مقايير |
|-----------|--|-----------|--------|-----|---------|--------------------------|---------|--------|
| | | | ارتفاع | عرض | طول | جزئي | اجمالي | |
| 1 | بالمتر الطولي توريد وتركيب مواسير معدنية بقطر ٧٠ سم وسك ٢٢ مم حديد رتبة ٥٢ | | | | | | | |
| | محور 1 | ١ | | | ١٥٠,٠٠٠ | | ١٥٠,٠٠٠ | |
| | محور 2 | ١ | | | ١٥٠,٠٠٠ | | ١٥٠,٠٠٠ | |
| | محور 3 | ١ | | | ١٥٠,٠٠٠ | | ١٥٠,٠٠٠ | |
| | محور 4 | ١ | | | ١٥٠,٠٠٠ | | ١٥٠,٠٠٠ | |
| | الاجمالي الكلي | | | | | | ٦٠٠,٠٠٠ | |

شتملة متر طولي فقط لا غير

مهندس استشاري المالك

مهندس استشاري المقاول

مهندس الشركة المنفذه

مهندس استشاري المقاول
El Farouk Amr & Ali
شركة استشارات الهندسة
El Farouk Amr & Ali
شركة استشارات الهندسة
El Farouk Amr & Ali

الفاروق (عمرو و علي)
El Farouk Amr & Ali
ب.ض : ٠٧٦ - ٤١٩ - ٢٩٨ من ت : ١٥٦٧١
م.ض : ٢٥ - ١٦ - ٣١٠ - ٠٠١٥٢

اسم العملية : عملية بربخ عند كم (55+415)
ضمن مشروع اعمال الجسر الترابي والأعمال الصناعية لمشار القطار الكهربائي السريع (العين السخنة - مطروح)

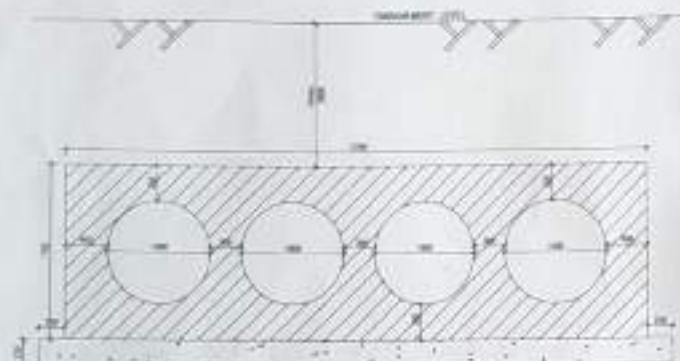
تفليذ شركة الفاروق عمرو و علي

| رقم البند | بند الاعمال | عدد القطع | مقاسات | | | مساحات الكميات والأوزان | | مقايير |
|---|---|-----------|-----------------------|---------|--------|-------------------------|---------|--------|
| | | | ارتفاع | عرض | طول | جزئي | إجمالي | |
| ٣ | بالمتر الطولي تنظيف وزليرة الخرسانة القديمة للمواسير القائمة وذلك باستخدام عمالة يدوية ذات كفاءة عالية مدربة للعمل في أصعب الظروف | | | | | | | |
| | عدد 4 مواسير خرسانة بطول 150 م قطر 1 م
محيط المسورة = $\pi * 1 = 3.14159$ م | 4 | 1 | 3.14159 | 150.00 | | 1884.96 | |
| | | | | | | | | |
| | الإجمالي الكلي | | | | | | 1884.96 | |
| الف ثمانية اربعة وثمانون و ١٠٠/٩٥ متر طولي فقط لا غير | | | | | | | | |
| مهندس الشركة المنفذه | | | مهندس استشاري المقاول | | | مهندس استشاري المالك | | |
| [Signature] | | | [Signature] | | | [Signature] | | |
| [Stamp] | | | [Stamp] | | | [Stamp] | | |

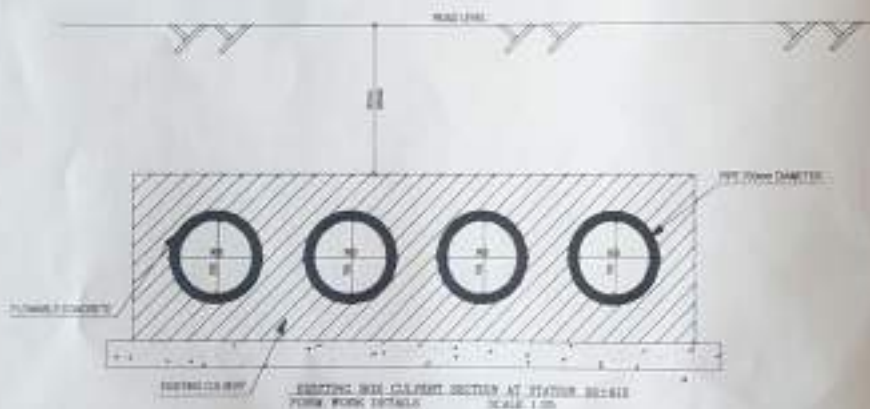
الفاروق عمرو و علي
El Farouk Amr & Ali
ب.ش. ٠٧٦ - ٢١٩ - ٢٩٨ م.ت. ١٥٦٧١
م.ش. ٠٢٥ - ١٦ - ٢١٠ م.ت. ٥٠٠١٥٣



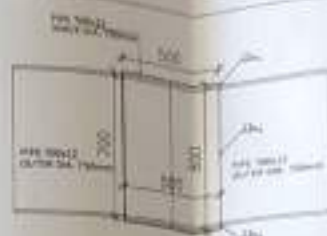
LONGITUDINAL SECTION OF BOX CULVERT AT STATION 30+40
FORM WORK DETAILS SCALE 1:10



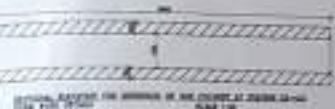
CROSS SECTION OF BOX CULVERT AT STATION 30+40
FORM WORK DETAILS SCALE 1:10



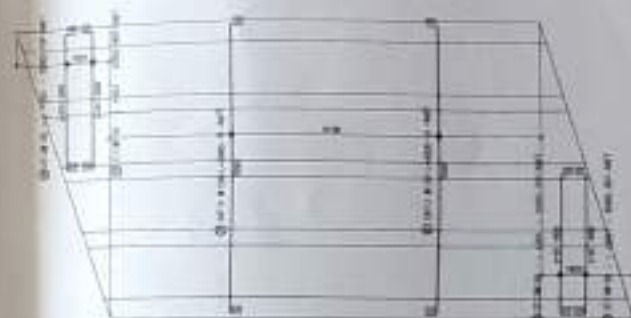
CROSS SECTION OF BOX CULVERT AT STATION 30+40
FORM WORK DETAILS SCALE 1:10



DETAIL OF BOX CULVERT AT STATION 30+40
SCALE 1:10



DETAIL OF BOX CULVERT AT STATION 30+40
SCALE 1:10



LONGITUDINAL SECTION OF BOX CULVERT AT STATION 30+40
TRANSVERSE BARS REINFORCEMENT DETAILS SCALE 1:10

Precautions for steel pipe:-

- 1- Pipe grade shall be ST-52 (S355 , $F_y = 355 \text{ Mpa}$, $F_u = 520 \text{ Mpa}$)
- 2- The pipe painting system shall be submitted from a certificated company,
- 3- The painting system must guarantee the steel pipe for 120 years design life time considering the surrounding environmental conditions.
- 4- Non shrink flowable concrete with a high permeability resistance and with a compressive strength not less than 40 MPa at 7 days shall be used.

1. All dimensions shall be indicated unless otherwise mentioned in the drawing.
2. Do not increase the dimensions of the structure without the approval of the designer.
3. For the indicated dimensions, the tolerance shall be as follows:
4. $\pm 0.5 \text{ mm}$
5. $\pm 0.5 \text{ mm}$
6. $\pm 0.5 \text{ mm}$
7. $\pm 0.5 \text{ mm}$

REFERENCE: DRAWING NO. 30+40-1
30+40-2
30+40-3
30+40-4
30+40-5
30+40-6
30+40-7
30+40-8
30+40-9
30+40-10
30+40-11
30+40-12
30+40-13
30+40-14
30+40-15
30+40-16
30+40-17
30+40-18
30+40-19
30+40-20
30+40-21
30+40-22
30+40-23
30+40-24
30+40-25
30+40-26
30+40-27
30+40-28
30+40-29
30+40-30
30+40-31
30+40-32
30+40-33
30+40-34
30+40-35
30+40-36
30+40-37
30+40-38
30+40-39
30+40-40
30+40-41
30+40-42
30+40-43
30+40-44
30+40-45
30+40-46
30+40-47
30+40-48
30+40-49
30+40-50
30+40-51
30+40-52
30+40-53
30+40-54
30+40-55
30+40-56
30+40-57
30+40-58
30+40-59
30+40-60
30+40-61
30+40-62
30+40-63
30+40-64
30+40-65
30+40-66
30+40-67
30+40-68
30+40-69
30+40-70
30+40-71
30+40-72
30+40-73
30+40-74
30+40-75
30+40-76
30+40-77
30+40-78
30+40-79
30+40-80
30+40-81
30+40-82
30+40-83
30+40-84
30+40-85
30+40-86
30+40-87
30+40-88
30+40-89
30+40-90
30+40-91
30+40-92
30+40-93
30+40-94
30+40-95
30+40-96
30+40-97
30+40-98
30+40-99
30+40-100

Any drawings or calculations issued by the office are not valid except with the presence of the official stamp and the signature of the designer.

| Rev. | Date | Description |
|------|------------|--------------|
| 01 | 20/10/2024 | FOR APPROVAL |
| 02 | 20/10/2024 | FOR APPROVAL |
| 03 | 20/10/2024 | FOR APPROVAL |
| 04 | 20/10/2024 | FOR APPROVAL |
| 05 | 20/10/2024 | FOR APPROVAL |
| 06 | 20/10/2024 | FOR APPROVAL |
| 07 | 20/10/2024 | FOR APPROVAL |
| 08 | 20/10/2024 | FOR APPROVAL |
| 09 | 20/10/2024 | FOR APPROVAL |
| 10 | 20/10/2024 | FOR APPROVAL |
| 11 | 20/10/2024 | FOR APPROVAL |
| 12 | 20/10/2024 | FOR APPROVAL |
| 13 | 20/10/2024 | FOR APPROVAL |
| 14 | 20/10/2024 | FOR APPROVAL |
| 15 | 20/10/2024 | FOR APPROVAL |
| 16 | 20/10/2024 | FOR APPROVAL |
| 17 | 20/10/2024 | FOR APPROVAL |
| 18 | 20/10/2024 | FOR APPROVAL |
| 19 | 20/10/2024 | FOR APPROVAL |
| 20 | 20/10/2024 | FOR APPROVAL |
| 21 | 20/10/2024 | FOR APPROVAL |
| 22 | 20/10/2024 | FOR APPROVAL |
| 23 | 20/10/2024 | FOR APPROVAL |
| 24 | 20/10/2024 | FOR APPROVAL |
| 25 | 20/10/2024 | FOR APPROVAL |
| 26 | 20/10/2024 | FOR APPROVAL |
| 27 | 20/10/2024 | FOR APPROVAL |
| 28 | 20/10/2024 | FOR APPROVAL |
| 29 | 20/10/2024 | FOR APPROVAL |
| 30 | 20/10/2024 | FOR APPROVAL |
| 31 | 20/10/2024 | FOR APPROVAL |
| 32 | 20/10/2024 | FOR APPROVAL |
| 33 | 20/10/2024 | FOR APPROVAL |
| 34 | 20/10/2024 | FOR APPROVAL |
| 35 | 20/10/2024 | FOR APPROVAL |
| 36 | 20/10/2024 | FOR APPROVAL |
| 37 | 20/10/2024 | FOR APPROVAL |
| 38 | 20/10/2024 | FOR APPROVAL |
| 39 | 20/10/2024 | FOR APPROVAL |
| 40 | 20/10/2024 | FOR APPROVAL |
| 41 | 20/10/2024 | FOR APPROVAL |
| 42 | 20/10/2024 | FOR APPROVAL |
| 43 | 20/10/2024 | FOR APPROVAL |
| 44 | 20/10/2024 | FOR APPROVAL |
| 45 | 20/10/2024 | FOR APPROVAL |
| 46 | 20/10/2024 | FOR APPROVAL |
| 47 | 20/10/2024 | FOR APPROVAL |
| 48 | 20/10/2024 | FOR APPROVAL |
| 49 | 20/10/2024 | FOR APPROVAL |
| 50 | 20/10/2024 | FOR APPROVAL |
| 51 | 20/10/2024 | FOR APPROVAL |
| 52 | 20/10/2024 | FOR APPROVAL |
| 53 | 20/10/2024 | FOR APPROVAL |
| 54 | 20/10/2024 | FOR APPROVAL |
| 55 | 20/10/2024 | FOR APPROVAL |
| 56 | 20/10/2024 | FOR APPROVAL |
| 57 | 20/10/2024 | FOR APPROVAL |
| 58 | 20/10/2024 | FOR APPROVAL |
| 59 | 20/10/2024 | FOR APPROVAL |
| 60 | 20/10/2024 | FOR APPROVAL |
| 61 | 20/10/2024 | FOR APPROVAL |
| 62 | 20/10/2024 | FOR APPROVAL |
| 63 | 20/10/2024 | FOR APPROVAL |
| 64 | 20/10/2024 | FOR APPROVAL |
| 65 | 20/10/2024 | FOR APPROVAL |
| 66 | 20/10/2024 | FOR APPROVAL |
| 67 | 20/10/2024 | FOR APPROVAL |
| 68 | 20/10/2024 | FOR APPROVAL |
| 69 | 20/10/2024 | FOR APPROVAL |
| 70 | 20/10/2024 | FOR APPROVAL |
| 71 | 20/10/2024 | FOR APPROVAL |
| 72 | 20/10/2024 | FOR APPROVAL |
| 73 | 20/10/2024 | FOR APPROVAL |
| 74 | 20/10/2024 | FOR APPROVAL |
| 75 | 20/10/2024 | FOR APPROVAL |
| 76 | 20/10/2024 | FOR APPROVAL |
| 77 | 20/10/2024 | FOR APPROVAL |
| 78 | 20/10/2024 | FOR APPROVAL |
| 79 | 20/10/2024 | FOR APPROVAL |
| 80 | 20/10/2024 | FOR APPROVAL |
| 81 | 20/10/2024 | FOR APPROVAL |
| 82 | 20/10/2024 | FOR APPROVAL |
| 83 | 20/10/2024 | FOR APPROVAL |
| 84 | 20/10/2024 | FOR APPROVAL |
| 85 | 20/10/2024 | FOR APPROVAL |
| 86 | 20/10/2024 | FOR APPROVAL |
| 87 | 20/10/2024 | FOR APPROVAL |
| 88 | 20/10/2024 | FOR APPROVAL |
| 89 | 20/10/2024 | FOR APPROVAL |
| 90 | 20/10/2024 | FOR APPROVAL |
| 91 | 20/10/2024 | FOR APPROVAL |
| 92 | 20/10/2024 | FOR APPROVAL |
| 93 | 20/10/2024 | FOR APPROVAL |
| 94 | 20/10/2024 | FOR APPROVAL |
| 95 | 20/10/2024 | FOR APPROVAL |
| 96 | 20/10/2024 | FOR APPROVAL |
| 97 | 20/10/2024 | FOR APPROVAL |
| 98 | 20/10/2024 | FOR APPROVAL |
| 99 | 20/10/2024 | FOR APPROVAL |
| 100 | 20/10/2024 | FOR APPROVAL |

Project: THE EL-RAEED EXPRESS TRAM (ET-ET)
From El-Ad El-Ghazal City On The East Side
To El-Ad El-Ghazal City On The West Side
The Mediterranean Coast

Client:

Design & Construction: **SYSTRA**

Main Contractor:

Main Contractor's Consultant:

Sub-Contractor:

Design No: **ESP-FLOOD PROTECTION**
CULVERT AT STATION 30+40
FORM WORK REINFORCEMENT DETAILS
SHEET (1-1)

DESIGNED BY: M. H.
CHECKED BY: M. H.
DATE: 20/10/2024
TIME: 10:10:00
SCALE: As shown in drawing

Drawing Number: 30+40-14 AND 30+40-15 AND 30+40-16



محضر استلام موقع

بالإشارة الى العقد المبرم بين الهيئة العامة للطرق والكباري وشركة الفاروق عمرو وعلى

رقم ٢٢٥ / ٢٠٢٤ / ٢٠٢٥

تاريخ العقد ٢٧ / ٨ / ٢٠٢٤

بشان تنفيذ اعمال تدعيم بربخ عند كم ٥٥+٤١٥

اسفل مسار القطار الكهربائي السريع (بالامر المباشر)

بحضور كلا من :-

لقد اجتمعت اللجنة يوم الخميس

(ممثل الهيئة العامة للطرق والكباري)

١- السيد المهندس / محمد سامي

(ممثل المكتب الاستشاري - مكتب الرائد)

٢- السيد المهندس / مصطفى محمود

(مهندس الشركة المنفذة)

٣- السيد المهندس / مجدى صبحى سعيد

وقامت اللجنة بالمرور على موقع المشروع عالية ووجدت انه لا يوجد عوائق ظاهرية

تعوق البدء في التنفيذ (الموقع خالى من العوائق) وعلية يكون تاريخ ٢٩ / ٨ / ٢٠٢٤

هو تاريخ استلام الموقع للمشروع واقل محضر في ذلك .

التوقيعات

| م | الاسم | الوظيفة | التوقيع |
|---|----------------|-------------------------------------|---------|
| ١ | | ممثل الهيئة العامة للطرق والكباري | |
| ٢ | د. محمد سامي | ممثل المكتب الاستشاري - مكتب الرائد | |
| ٣ | م.ج. صبحى سعيد | ممثل الشركة المنفذة | |



محضر استلام موقع

بالإشارة الى العقد المبرم بين الهيئة العامة للطرق والكباري وشركة الفاروق عمرو وعلى

رقم ٢٢٥ / ٢٠٢٤ / ٢٠٢٥

تاريخ العقد ٢٧ / ٨ / ٢٠٢٤

بشان تنفيذ اعمال تدعيم بربخ عند كم ٥٥+٤١٥

اسفل مسار القطار الكهربائي السريع (بالامر المباشر)

بحضور كلا من :-

لقد اجتمعت اللجنة يوم الخميس

(ممثل الهيئة العامة للطرق والكباري)

١- السيد المهندس / محمد سامي

(ممثل المكتب الاستشاري - مكتب الراند)

٢- السيد المهندس / مصطفى محمود

(مهندس الشركة المنفذة)

٣- السيد المهندس / مجدى صبحي سعيد

وقامت اللجنة بالمرور على موقع المشروع عالية ووجدت انه لا يوجد عوائق ظاهرية

تعوق البدء في التنفيذ (الموقع خالى من العوائق) وعلية يكون تاريخ ٢٩ / ٨ / ٢٠٢٤

هو تاريخ استلام الموقع للمشروع واقل محضر في ذلك .

التوقيعات

| الاسم | الوظيفة | التوقيع |
|-------|-------------------------------------|---------|
| ١ | ممثل الهيئة العامة للطرق والكباري | |
| ٢ | ممثل المكتب الاستشاري - مكتب الراند | |
| ٣ | ممثل الشركة المنفذة | |



محضر استلام موقع

بالإشارة الى العقد المبرم بين الهيئة العامة للطرق والكبارى وشركة الفاروق عمرو وعلى

رقم ٢٢٥ / ٢٠٢٤ / ٢٠٢٥

تاريخ العقد ٢٧ / ٨ / ٢٠٢٤

بشان تنفيذ اعمال تدعيم بربخ عند كم ١٥+٥٥

اسفل مسار القطار الكهربائي المربيع (بالامر المباشر)

بحضور كلا من :-

لقد اجتمعت اللجنة يوم الخميس

(ممثل الهيئة العامة للطرق والكبارى)

١- السيد المهندس / محمد سامى

(ممثل المكتب الاستشاري - مكتب الراند)

٢- السيد المهندس / مصطفى محمود

(مهندس الشركة المنفذة)

٣- السيد المهندس / مجدى صبحى سعيد

وقامت اللجنة بالمرور على موقع المشروع عالية ووجدت انه لا يوجد عوائق ظاهرية

تعوق البدء في التنفيذ (الموقع خالى من العوائق) وعليه يكون تاريخ ٢٩ / ٨ / ٢٠٢٤

هو تاريخ استلام الموقع للمشروع واقتل محضر في ذلك .

التوقيعات

| م | الاسم | الوظيفة | التوقيع |
|---|----------------|-------------------------------------|---------|
| ١ | | ممثل الهيئة العامة للطرق والكبارى | |
| ٢ | صالح محمد عمرو | ممثل المكتب الاستشاري - مكتب الراند | |
| ٣ | مجدى صبحى سعيد | ممثل الشركة المنفذة | |

محضر استلام موقع

بالإشارة إلى العقد المبرم بين الهيئة العامة للطرق والكباري وشركة الفاروق عمرو وعلى

رقم ٢٢٥ / ٢٠٢٤ / ٢٠٢٥

تاريخ العقد ٢٧ / ٨ / ٢٠٢٤

بشأن تنفيذ أعمال تدعيم بربخ عند كم ٥٥+٤١٥

اسفل مسار القطار الكهربائي السريع (بالامر المباشر)

بحضور كلا من :-

لقد اجتمعت اللجنة يوم الخميس

(ممثل الهيئة العامة للطرق والكباري)

١- السيد المهندس / محمد سامي

(ممثل المكتب الاستشاري - مكتب الراند)

٢- السيد المهندس / مصطفى محمود

(مهندس الشركة المنفذة)

٣- السيد المهندس / مجدى صبحى سعيد

وقامت اللجنة بالمرور على موقع المشروع عالية ووجدت انه لا يوجد عوائق ظاهرية

تعوق البدء في التنفيذ (الموقع خالى من العوائق) وعليه يكون تاريخ ٢٩ / ٨ / ٢٠٢٤

هو تاريخ استلام الموقع للمشروع واقفل محضر في ذلك .

التوقيعات

| م | الاسم | الوظيفة | التوقيع |
|---|----------------|-------------------------------------|---------|
| ١ | | ممثل الهيئة العامة للطرق والكباري | |
| ٢ | محمد سامي | ممثل المكتب الاستشاري - مكتب الراند | |
| ٣ | مجدى صبحى سعيد | ممثل الشركة المنفذة | |



مطابقة الأسماء: (أعلى وأدنى)

شركة / المساريق (أسماء وعلامات)



عند بيع عند كم (55+415)
ضمن مشروع أعمال الحفر الأرضي والأعمال المدنية لاسفل المطار الكورنيش
السبع (أربعين) المساحة - مطروح

| رقم البند | بند لاسفل | كمية | وحدة | الكمية في التفاوض | الكمية في التفاوض | الكمية في التفاوض | الكمية في التفاوض |
|-----------|--|------|----------------|-------------------|-------------------|-------------------|-------------------|
| 1 | بشرط طول كورد وكورد مرسى معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 400 | م ² | 41000 | 16400000 | 37000 | 14800000 |
| 2 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 178 | م ² | 12500 | 2225000 | 5200 | 925600 |
| 3 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 612 | م ² | 1563 | 956536 | 800 | 489600 |
| 4 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 85 | م ² | 2850 | 242250 | 2850 | 242250 |
| 5 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 160 | م ² | 55 | 8800 | 55 | 8800 |
| 6 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 40 | م ² | 1850 | 74000 | 1850 | 74000 |
| 7 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 200 | م ² | 145 | 29000 | 55 | 11000 |
| 8 | بشرط حديد لاسفل معدنية بطول 70 سم وسماك 22 مم حديد رابطة 52 | 10 | م ² | 41000 | 410000 | 41000 | 410000 |
| الإجمالي | | | | 20,345,606.00 | 16,961,250.00 | | |

مهندس / أمين محمد متولى
مهندس / محمد محمود محمد باقر
مهندس / محمد كمال حسن غنيم
مهندس / محمد ساني

المهندس / محمد صبرى سعيد سلام
المهندس / عمرو و على
El Farouk Amr & Ali



الهيئة العامة للطرق والكباري

محضر مفاوضات

(شركة الفاروق) (عمرو وعلي)

تنفيذ أعمال تدعيم أبراج عند كم (٤١٥-٥٥) أسفل مسار القطار الكهربائي السابق
(بالأمر المباشر)

- بنرا علي موافقة السيد الفريق وزير النقل علي إسماء تنفيذ أعمال تدعيم أبراج عند كم (٤١٥-٥٥) أسفل مسار القطار الكهربائي السريع " إلي شركة الفاروق " (عمرو وعلي) بقيمة تقديرية ١٦,٩٦٢ مليون جنيه

- وينرا علي موافقة سيادكم علي تشكيل لجنة لمفاوضة الشركة علي الأسعار المقدمة منها نظير تلك الأعمال

- فقد اجتمعت اللجنة المشكلة لهذا الغرض في تصام المساحة الحادية عشر صباح يوم الخميس الموافق ٢٧ / ٤ / ٢٠٢٢ بحضور كلا من السادة الآتي أسمائهم :-

| | | |
|-------|--|-----------------------------------|
| رئيسا | الإدارة المركزية لتنفيذ وصيانة الكباري | المهندس / أيمن محمد متولي |
| عضوا | الإدارة المركزية لتنفيذ وصيانة الكباري | المهندس / محمد محمد لطيف |
| عضوا | الإدارة المركزية لتنفيذ وصيانة الكباري | المهندس / محمد كامل حسن ظهير |
| عضوا | عضو مراجعة المستخلصات | المهندس / محمد عبد الله عبد العال |
| عضوا | عضو الإدارة القانونية | الأستاذة / هاني جمال عبد السيد |
| عضوا | عضو المطر | الأستاذة / إيهاب سمير عبد الفتاح |

- ويحضر شركة الفاروق ((عمرو وعلي))

السيد المهندس / عمرو سكر

بصفته / مدير الشركة

- حيث اجتمعت اللجنة بقر قطاع التنفيذ والمناطق وقامت اللجنة بمناقشة السعر المقدم من الشركة

والتي انتهت إلي ما يلي :-

- قامت الشركة بتقديم أسعار بنود الأعمال والبيانات قيمتها الإجمالية قبل المفاوضة مبلغ وقدره ٢٠٢٤٥٦٠٦ جنيه (فقط وقدره عشرون مليون وثلاثمائة خمسة وأربعون ألف وستمائة وستة جنيهما لا غير)

- حيث قامت اللجنة ببشارة أعمالها في مفاوضة الشركة علي أسعار بنود الأعمال المقدمة منها حيث تم الاتفاق والالتزام الشركة بتنفيذ كافة الأعمال المطلوبة وذلك بقيمة إجمالية قدرها ١٦٩٦١٢٥٠ جنيه (فقط وقدره ستة مليون وتسعمائة واحد وستون ألف ومائتان وخمسون جنيها لا قيس :-

