

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date		Time															
Contractor Reference					Revision															
Received by ER	<i>AT</i>	<i>AL</i>	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>9</td> <td>2</td> <td>21</td> <td>12</td> <td>02</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				9	2	21	12	02
C1	C2	C3	DD	MM	YY	HH	MM													
			9	2	21	12	02													

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE RAFT C400 .	
Location of Test		1ST SPAN RC RAFT OF CULVERT 506+945	
Item	Specification	Test Requirement	Test Result Attachment
1	7 DAYS	1	31-10-2023
2			
3			
4			
5			

Comments by:

Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>	
Designer			A
GARB *			
Employers Representative	<i>AT</i>	<i>AL</i>	9/12/24
			A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	لبنية ٥٠٦	
Casting Date	24/10/2023	
Report Date	31/10/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	24/10/2023	31/10/2023	7	8126	2.41	832	377	372	93
2				8243	2.44	796	361		
3				8166	2.42	811	367		
4				8147	2.41	799	362		
5				8132	2.41	835	378		
6				8145	2.41	855	387		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	لبشة ٥٠٦	
Casting Date	24/10/2023	
Report Date	31/10/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	24/10/2023	31/10/2023	7	8232	2.44	786	356	367	92
2				8169	2.42	813	368		
3				8234	2.44	844	382		
4				8220	2.44	822	372		
5				8139	2.41	807	366		
6				8176	2.42	785	356		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time																
Contractor Reference				Revision																
Received by ER	<i>ME</i>	<i>ME</i>	TRF	<table border="1"> <tr> <td>CI</td> <td>CE</td> <td>CG</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>9</td> <td>7</td> <td>20</td> <td>11</td> <td>03</td> </tr> </table>	CI	CE	CG	DD	MM	YY	HH	MM				9	7	20	11	03
CI	CE	CG	DD	MM	YY	HH	MM													
			9	7	20	11	03													

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE RAFT C400 .		
Location of Test		1ST SPAN RC RAFT OF CULVERT 506+945		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	28 DAYS		1	21-11-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>		A
Designer				A
GARB *				
Employers Representative	<i>ME</i>	<i>ME</i>	9/12/24	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	لبشة ٥٠٦	
Casting Date	24/10/2023	
Report Date	21/11/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	24/10/2023	21/11/2023	28	8326	2.47	1036	469	490	122
2				8216	2.43	1135	514		
3				8135	2.41	1096	496		
4				8193	2.43	1038	470		
5				8099	2.40	1078	488		
6				8134	2.41	1101	499		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	لبنة ٥٠٦	
Casting Date	24/10/2023	
Report Date	21/11/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	24/10/2023	21/11/2023	28	8213	2.43	1136	515	500	125
2				8134	2.41	1086	492		
3				8079	2.39	1066	483		
4				8136	2.41	1143	518		
5				8222	2.44	1075	487		
6				8104	2.40	1110	503		

Notes:

- The required strength to be achieved at the age of 28 days is 400 kg/cm².
- Samples were taken and processed according to the Egyptian code and technical specifications.
- The samples were tested according to the Egyptian specification CE 1658/1989.
- Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time	
Contractor Reference				Revision	
Received by ER	A. L.	[Signature]	TRF	☒ C1 ☒ C2 ☒ C3 ☐ DD ☐ MM ☐ YY ☐ HH ☐ MM	2 7 24 12 12

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .	
Location of Test		1ST SPAN RC WALLS 1,2 FROM EAST OF CULVERT 506+945	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	Remarks 17-12-2023
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			A
GARB *			
Employers Representative	A. L.	[Signature]	21/2/24 A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	حوائط ١ و ٢ من الشرق ٩٤٥+٠٦	
Casting Date	29/11/2023	
Report Date	27/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	29/11/2023	27/12/2023	28	8435	2.50	1063	482	459	115
2				8342	2.47	976	442		
3				8246	2.44	998	452		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time	
Contractor Reference				Revision	
Received by ER	MR	MR	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				2	24/12/23

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .
Location of Test	1ST SPAN RC WALLS 1,2 FROM EAST OF CULVERT 506+945

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	9-12-2023
2				
3				
4				
5				

Comments by:	Comments by:
* Cube 2 < 0.8 x 15cm.	

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A. J		21/12/24	AWC

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	حائط ١ و ٢ من الشرق ٩٤٤٠ + ٠٦	
Casting Date	29/11/2023	
Report Date	09/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	29/11/2023	09/12/2023	10	8196	2.43	905	410	370	92
2				8109	2.40	636	288		
3				8133	2.41	908	411		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng. Mohamed Ibrahim

Contracting Elshreif
مطعم رأس الحكمة

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date		
MORCOS EDWARD		Marcos Edward			
Contractor Reference				Revision	
Received by ER	A2		TRF	C1	C2
				C3	D0
				MM	YY
				HH	MM
				27	201214

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW				
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .		
Location of Test		1ST SPAN RC WALLS 3,4 FROM EAST OF CULVERT 506+945		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	16-12-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Marcos Edward		A
Designer				A
GARB *				
Employers Representative	A2		21/2/2014	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	حوائط & ٣ من الشرق برنج ٩٤٥ + ٥٠٦	
Casting Date	09/12/2023	
Report Date	16/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	09/12/2023	16/12/2023	7	8233	2.44	855	387	388	97
2				8149	2.41	893	405		
3				8490	2.52	822	372		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time	
Contractor Reference				Revision	
Received by ER	PA1	PA1	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	2
				24	17
					66

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .	
Location of Test		1ST SPAN RC WALLS 3,4 FROM EAST OF CULVERT 506+945	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	Remarks
2			6-1-2024
3			
4			
5			

Comments by:

Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	PA1	PA1	9/17/24	PA

* Alignment / Bridges: Culvert Only

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



شركة الشريط للمقاولات الصورية المتكاملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	حوائط R&T من الشرق برنج ٩٤٥ + ٥٠٦	
Casting Date	09/12/2023	
Report Date	06/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	09/12/2023	06/01/2024	28	8233	2.44	1193	540	521	130
				8503	2.52	1034	468		
2	09/12/2023	06/01/2024	28	8162	2.42	1224	554		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1558/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng. Mohamed Ibrahim

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
	MORCOS EDWARD	Morcos Edward			
Contractor Reference				Revision	
Received by ER	MZ	AB	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	22
				11	04

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .

Location of Test 1ST SPAN RC WALLS 5,6,7 FROM EAST OF CULVERT 506+945

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	24-12-2023
2				
3				
4				
5				

Comments by:

Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	MZ	AB	9/12/24	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	بريخ ٥٠٦٩٥ حوائط ١٥٠٦	
Casting Date	17/12/2023	
Report Date	24/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	17/12/2023	24/12/2023	7	8337	2.47	905	410	387	97
2				8369	2.48	859	389		
3				8476	2.51	863	391		
4				8203	2.43	873	395		
5				8259	2.45	762	345		
6				8180	2.42	862	390		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name	Sign	Date		Time															
	MORCOS EDWARD	Morcos Edward																		
Contractor Reference					Revision															
Received by ER	192		TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>4</td> <td>2</td> <td>26</td> <td>12</td> <td>05</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				4	2	26	12	05
C1	C2	C3	DD	MM	YY	HH	MM													
			4	2	26	12	05													

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .		
Location of Test		1ST SPAN RC WALLS 5,6,7 FROM EAST OF CULVERT 506+945		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	28 DAYS		1	14-1-2024
2				
3				
4				
5				

Comments by:

Comments by:

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APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	192		9/2/24	A

* Alignment / Bridges: Culvert Only

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



شركة الشريف للمقاولات العمومية المتكاملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	بريخ ٥٠٦+٩٤٥ حوائط ٥٠٦	
Casting Date	17/12/2023	
Report Date	14/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	17/12/2023	14/01/2024	28	8367	2.48	975	442	497	124
				8467	2.51	1150	521		
				8482	2.51	1001	453		
				8595	2.55	1068	484		
2	17/12/2023	14/01/2024	28	8445	2.50	1202	545	497	124
3				8261	2.45	1190	539		

Notes:

- The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- Samples were taken and processed according to the Egyptian code and technical specifications.
- The samples were tested according to the Egyptian specification CE 1658/1989.
- Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng.Mohamed Ibrahim



SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time																
Contractor Reference				Revision																
Received by ER	<i>AS</i>	<i>[Signature]</i>	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>97</td> <td>24</td> <td>12</td> <td>07</td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				97	24	12	07	
C1	C2	C3	DD	MM	YY	HH	MM													
			97	24	12	07														

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE SLAB C400 .		
Location of Test		1ST SPAN RC SLAB OF CULVERT 506+945		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	9-1-2024
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>		A
Designer				A
GARB *				
Employers Representative	<i>AS</i>	<i>[Signature]</i>	9/12/24	A

* Alignment / Bridges Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف جريخ ٥.٦+٩	
Casting Date	02/01/2024	
Report Date	09/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	02/01/2024	09/01/2024	7	8047	2.38	943	427	389	97
2				8291	2.46	882	400		
3				8005	2.37	794	360		
4				8017	2.38	928	420		
5				8360	2.48	710	322		
6				8298	2.46	893	405		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف برية ٠١+٩٤٠	
Casting Date	02/01/2024	
Report Date	09/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg/cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	02/01/2024	09/01/2024	7	8382	2.48	839	380	395	99
2				8062	2.39	899	407		
3				8204	2.43	876	397		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف بريمج ٥.٦+٩.٤٥	
Casting Date	03/01/2024	
Report Date	10/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	03/01/2024	10/01/2024	7	8316	2.46	895	405	403	101
2				8374	2.48	900	408		
3				8229	2.44	876	397		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time																
Contractor Reference				Revision																
Received by ER	<i>AJ</i>	<i>[Signature]</i>	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	DO	MM	YY	HH	MM								
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		COMPRESSION STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE SLAB C400 .	
Location of Test		1ST SPAN RC SLAB OF CULVERT 506+945	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	Remarks 30-1-2024
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>	
Designer			A
GARB *			
Employers Representative	<i>172</i>	<i>[Signature]</i>	<i>9/17/24</i>
			A

* Alignment / Bridges: Culvert Only

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



شركة التوريد للمطاولات المرمية المستكملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف بريمج ٥٠٦	
Casting Date	02/01/2024	
Report Date	30/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	02/01/2024	30/01/2024	28	8163	2.42	1102	499	499	125
				8202	2.43	1136	515		
				8166	2.42	1088	493		
				8214	2.43	1093	495		
2	02/01/2024	30/01/2024	28	8236	2.44	1064	482	499	125
				8224	2.44	1127	511		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.



شركة التوريد للمقاولات العمرية المتكاملة والتوريدات
قطاع الرسالة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف بربخ ٥٠٥	
Casting Date	02/01/2024	
Report Date	30/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1			28	8203	2.43	1077	488	493	123
				8214	2.43	1065	482		
2	02/01/2024	30/01/2024	28	8199	2.43	1123	509		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.





شركة الشريف للمقاولات العمومية المتكاملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف بروج ٥٠١	
Casting Date	03/01/2024	
Report Date	31/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	03/01/2024	31/01/2024	28	8123	2.41	1133	513	510	128
2				8236	2.44	1142	517		
3				8188	2.43	1103	500		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.



SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB																	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time																	
Contractor Reference				Revision																	
Received by ER	AJ	AK	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>97</td> <td>26</td> <td>11</td> <td>09</td> <td></td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				97	26	11	09		
C1	C2	C3	DD	MM	YY	HH	MM														
			97	26	11	09															

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .		
Location of Test		RC WING FOOTINGS UPSTREAM OF CULVERT 506+945		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	19-2-2024
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	AJ	AK	9/17/26	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قواعد وبنجات إستريم ٥٠٦	
Casting Date	12/02/2024	
Report Date	19/02/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	12/02/2024	19/02/2024	7	8103	2.40	846	383	376	94
2				8165	2.42	833	377		
3				8195	2.43	811	367		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name	Sign	Date	Time																
MORCOS EDWARD	Morcos Edward																			
Contractor Reference				Revision																
Received by ER	192		TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>09</td> <td>2</td> <td>24</td> <td>12</td> <td>10</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				09	2	24	12	10
C1	C2	C3	DD	MM	YY	HH	MM													
			09	2	24	12	10													
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW *NB: Package 1 Only (Package 2 via Aconex)																				
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400.																		
Location of Test		RC WING FOOTINGS UPSTREAM OF CULVERT 506+945																		
Item	Specification	Test Requirement	Test Result Attachment	Remarks																
1	28 DAYS		1	11-3-2024																
2																				
3																				
4																				
5																				

Comments by:

Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			A
GARB *			
Employers Representative	112		9/12/24

* Alignment / Bridges: Culvert Only

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



شركة الشريف للمقاولات العمومية المتكاملة والتوريدات
قطاع الفرسة الجافة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قواعد وبيجيت استريم ٥٠٦	
Casting Date	12/02/2024	
Report Date	11/03/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	12/02/2024	11/03/2024	28	8123	2.41	1123	509	500	125
				8245	2.44	1097	497		
2				8163	2.42	1088	493		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.



MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company									
Issued by Contractor	Name	Sign	Date	Designation									
Contractor Reference	Revision												
Designer Receipt	Name	Sign	Date	Designation									
Designer Reference	Revision												
Received by ER	A-Idress	 MAR 50466	CI KP 50466	C2 OT	C3 CS	D0 18	D1 9	Y1 23	Y2 13	Y3 45	CODE-1 S1 to S21 Station Reference	CODE-2 Work Activity For Kilometer point only	CODE-3 Sub Element of Activity

Description of Materials	POLYETHYLENE SHEET 300,400 MICRON			
Location to be Used	STRUCTURAL WORK BEFORE POURING ON GROUND FOR CULVERTS & TUNNEL.			
Sample only	Yes / No	Materials Type	POLYETHYLENE	
Supplier Name	DAR BUILD GROUP	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:			
<i>Material approved for use as per attached.</i>				

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor					A
Designer					
GARB*					
Employers Representative	A. Idress		QA/QC S.E.	18/4/23	A

A= Approved; AWC= Approved with Comments; R= Rejected
 * Agreement/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company							
FUKA		EG CONTRACT									
Issued by Contractor	Name	Sign	Date	Designation							
	MORCOS EDWARD		4-10-2023								
Contractor Reference	EG-FO-KK-TU-MAR-ST-0002										
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference											
Received by ER	ENG. ABDELRAHMAN EDREES		MAR	CL	C2	C3	D0	MM	YY	HH	MM
			21	1		24	11	00			
CODE-1 51 to 521 Station Reference		CODE-1 Kg XXX For Kilometer point only		CODE-2 Work Activity		CODE-3 Sub Element of Activity					

Description of Materials	BITUMEN MEMBRANE			
Location to be Used	FUJKA TUNNEL (509+561).			
Sample only	Yes / No	Materials Type	POLYETHYLENE	
Supplier Name	DAR BUILD GROUP	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:			
Approved as per attached. 				

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD			4-10-23
Designer				
GARB*				
Employers Representative	N-Zdrss		QA/QC	20/11/24
A= Approved; AWC= Approved with Comments; Re= Rejected				

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company		
FOKA		EG CONTRACT				
Issued by Contractor	Name	Sign	Date	Designation		
	MORCOS EDWARD		17-10-2023			
Contractor Reference	EG-FD-SG-MAR-ST-0007					
Designer Receipt	Name	Sign	Date	Designation		
Designer Reference						
Received by ER	A-2dress	Sign	MAR	CODE-1 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89 C90 C91 C92 C93 C94 C95 C96 C97 C98 C99 C100	CODE-2 Work Activity	CODE-3 Sub Element of Activity

Description of Materials	HIGH FIBER G		
Location to be Used	STRUCTURAL WORK ADDITIVE TO CONCRETE OF SLOPE PROTECTION.		
Sample only	Yes / No	Materials Type	FIBER GLASS
Supplier Name	HORSE FOR BEST SOLUTION	Data Sheet provided	Yes attached / No
Reference in BoQ		Specification	Clause
Prequalification reference		Test Samples Results	
Reference Photos	Yes attached / No	Other	
Comments by:	Approved as per attached.		

APPROVAL STATUS			
Organisation	Name	Sign	Date
	MORCOS EDWARD		17-10-2023
Contractor			A
Designer			
GARB*			
Employers Representative	A-2dress	Sign	Date
			21/1/24 QDA/OC
			A

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

* Alignment/Bridges: Culvert only

MATERIAL APPROVAL REQUEST



Green Line									
Location Name		Contractor Company			Designer Company				
FOKA		EG CONTRACT			NECB				
Issued by Contractor	Name	MORCOS EDWARD	Sign	Morcos Edward	Date	13-6-2023			
Contractor Reference									
Received by ER	Name	WLS	Sign	WLS	Date	MAR 13 06 23 3 50			
Description of Materials		WATER BASE BITUMINUS PAINT (SIKA BITUMIN- W)							
Location to be Used		CULVERTS FROM 492+550 TO 503+630							
Sample only	Yes / No								
Supplier Name	SIKA	Data Sheet provided	Yes attached / No						
Reference in BoQ		Specification	Clause						
Prequalification reference		Test Samples Results							
Reference Photos	Yes attached / No	Other							
Designer Comments:									
Designer RECEIPT	Name	Sign	Designation		Date				
Designer Reference	Revision								
Designer Status	Approved ☐	Approved with Comments ☐			Rejected ☐		Designation		
Designer REPLY	Name	Sign	Date						

Note:

- Response from the Designer is not mandatory for every submission, but may be necessary for previously approved design related subjects
- Response to Contractor's Submission by the Employers Representative (ER) shall be by Letter and Review and Comment Sheet (RCS) with any comments attached and the status of approval
- Receipt of Submission via EDMS will not be signed by ER

Follow attached
Comments

Green Line

Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT			
Contractor ISSUED	Name EN. MORCOS EDWARD	Sign	Date 23-12-2023	Designation	
Contractor Reference					Revision

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW

Item	Document No	Revision	Title	Number Sheets
1			PREQUALIFICATION OF ELSEIRIF BATCH PLANT	
2				
3				
6				
7				
8				
9				

Designer RECEIPT	Name	Sign	Designation	Date
Designer Reference				
Designer Comments: "Approved as per attached"				
Designer Status	Approved ☒	Approved with Comments ☐	Rejected ☐	
Designer REPLY	Name A. Zdrass	Sign	Date 21/11/24	Designation QA/QC Sr.

Note:

- Response from the Designer is not mandatory for every submission, but may be necessary for previously approved design related subjects
- Response to Contractor's Submission by the Employers Representative (ER) shall be by Letter and Review and Comment Sheet (RCS) with any comments attached and the status of approval
- Receipt of Submission via EDMIS will not be signed by ER

MATERIAL APPROVAL REQUEST



مجلس إدارة
(GARB)



Location Name		Contractor Company		Designer Company																	
FOKA		EG-CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)																	
Issued by Contractor	Name ENG. MORCOS EDWARD	Sign	Date 18/03/2023	Designation																	
Contractor Reference	EG-FO-SG-MAR-ST-0005			Revision 00																	
Designer Receipt	Name	Sign	Date	Designation																	
Designer Reference				Revision																	
Received by ER	Mohamed Elrehman Edress	Sign	MAAR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>18</td> <td>03</td> <td>2023</td> <td>14</td> <td>01</td> <td></td> <td></td> <td></td> </tr> </table>		C1	C2	C3	DD	MM	YY	HH	MM	18	03	2023	14	01			
C1	C2	C3	DD	MM	YY	HH	MM														
18	03	2023	14	01																	
CODE-1 SS03+720 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-1 Kp 503+720 For Kilometer point only																	
				CODE-2 POURING P.C.																	
				CODE-3 Sub Element of Activity																	

Description of Materials	SIKASWELL	
Location to be Used	Construction Joints Between the Raft and the Outer Walls OF CULVERTS	
Sample only	Yes / No	Materials Type
Supplier Name	Sika	Data Sheet provided
Reference in BoQ		Specification
Prequalification reference		Test Samples Results
Reference Photos	Yes attached / No	Other
Comments by: ER:-		Comments by:
Material approved as per attached. Material to be used as per project approved docs.		

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	ENG. MORCOS EDWARD			
Designer				
GARB*				
Employers Representative	Mohamed Elrehman Edress	Sign	AA/16C S.C.	22.3.23
A				

* Alignment/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by	Name	Sign	Date	Designation																
Contractor	MORCOS EDWARD	Morcos Edward																		
Contractor Reference				Revision																
Designer Receipt	Name	Sign	Date	Designation																
Designer Reference				Revision																
Received by ER	Kareem Ibrahim		MAR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>KP</td> <td>CU</td> <td>MS</td> <td>28</td> <td>02</td> <td>23</td> <td>12</td> <td>02</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM	KP	CU	MS	28	02	23	12	02
C1	C2	C3	DD	MM	YY	HH	MM													
KP	CU	MS	28	02	23	12	02													
CODE-1 S1 to S23 Station Reference		CODE-1 D1 to S3 Dipoint Reference		CODE-2 Kp XXX For Kilometer point only																
				CODE-3 Work Activity																
				CODE-3 Sub Element of Activity																

Description of Materials	CONCRETE SPACER (GP PLASTIC FOR CONSTRUCTION SERVICES)	
Location to be Used	CULVERTS FROM ST(492+640) TO ST(508+524)	
Sample only	Yes / No	Materials Type
Supplier Name	GP PLAST	Data Sheet provided
Reference in BoQ		Specification
Pregualification reference		Test Samples Results
Reference Photos	Yes attached / No	Other
Comments by:		Comments by:
<i>At concrete spacer are approved and Contractor to submit AER during supplies</i>		

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD	Morcos Edward		
Designer				
GARB*				
Employers Representative	Kareem Ibrahim		Lead QA/QC	28 Feb 2023
A				

* Alignment/Bridges: Culvert only

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

MATERIAL INSPECTION REQUEST	EG CONTRACT EGYPTIAN REINFORCING STEEL	EGYPTIAN REINFORCING STEEL	EGYPTIAN REINFORCING STEEL	EGYPTIAN REINFORCING STEEL
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Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)	
Issued by Contractor	Name MORCOS EDWARD	Sign	Date 4-3-2023	Time	
Contractor Reference	EG-FO-SG-MIR-ST-0001			Revision 0	
Received by ER	Mohd AlPahman Salhss	MIR	CD 492 Cu	CS HS 72 3	DD 23 13 58
CODE-1 ST to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 KP XXX For kilometre point only	CODE-2 Work Activity		CODE-3 Sub Element of Activity

Description of Materials		HIGH TENSILE REINFORCING STEEL B500DWR			
Location to be Used		CULVERTS ST(492+640 TO 508+524)			
MAR Approval No		KP CU MS 28-2-23 14:48		Date	
Supplier Name		EGYPTIAN STEEL COMPANY			
Test Requirement		EG-FO-SG-TRC-S2-Specification		Clause	
Reference Photos		Yes attached / No		Other	
Item	Description	Unit	Quantity	Arrival Date	Note
1	STEEL DIAMETER 18MM	TON	0.5	26-1-2023	D.K.
2					
3					
4					
Comments by: C.Pi.		Comments by:			
* Material approved as per the mentioned quantities, and reference to the mentioned test results.					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	MORCOS EDWARD			4-3-2023	A
Contractor QA/QC					A
GARB*					
Employers Representative	Mohd AlPahman Salhss		AWC Sr.	22.3.23	A

* Alignment/Bridges: Culvert only

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

MATERIAL INSPECTION REQUEST									
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Location Name		Contractor Company		Designer Company							
FOKA		EG CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)							
Issued by Contractor	Name	Sign	Date	Time							
	MORCOS EDWARD		04/03/2023								
Contractor Reference	EG-FO-SG-MIR-ST-0002			Revision 00							
Received by ER	MIR	CL	C2	C3	DD	MM	YY	HH	MM		
	Modd Rahman	17P	Cu	HS	22	3	23	13	57		
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		HIGH TENSILE REINFORCING STEEL B500DWR							
Location to be Used		CULVERTS ST(492+640 TO 508+524)							
MAR Approval No		KP CV MS 28-2-2023 14:46				Date		28-2-2023	
Supplier Name		ELSUEZ COMPANY							
Test Requirement		EG-FO-SG-MIR-ST-0002				Specification		Clause	
Reference Photos		Yes attached / No		Other					
Item	Description	Unit	Quantity	Arrival Date	Note				
1	STEEL DIAMETER 12MM	TON	18.680	26-1-2023	O.K.				
2	STEEL DIAMETER 16MM	TON	0.5	26-1-2023	O.K.				
3									
4									
Comments by: ER.		Comments by:							
Material approved as per the mentioned quantities and reference to the mentioned test results.									

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor Engineer	MORCOS EDWARD			04/03/2023
Contractor QA/QC				
GARB*				
Employers Representative	Modd Rahman		QA/QC	22.3.23
	Edress		Sr.	A

* Alignment/Bridges: Culvert only

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

MATERIAL INSPECTION REQUEST	   
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Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)																	
Issued by Contractor	Name MORCOS EDWARD	Sign	Date 22-3-2023	Time																	
Contractor Reference	EG-FO-SG-MIR-ST-0003			Revision 00																	
Received by ER	Abdulrahman Sdoss	MIR	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>10</td> <td>49</td> <td>CU</td> <td>MS</td> <td>22</td> <td>3</td> <td>13</td> <td>40</td> </tr> </table>			C1	C2	C3	DD	MM	YY	HH	MM	10	49	CU	MS	22	3	13	40
C1	C2	C3	DD	MM	YY	HH	MM														
10	49	CU	MS	22	3	13	40														
CODE-1 ST to ST Station Reference	CODE-2 DT to ST Depot Reference	CODE-1 Rp XXX For Kilometer points only	CODE-2 Work Activity	CODE-3 Sub Element of Activity																	

Description of Materials		HIGH TENSILE REINFORCING STEEL B500DWR			
Location to be Used		CULVERTS ST(492+640 TO 508+524)			
MAR Approval No		KP492 CU MS 22-3-2023 13:55		Date	
Supplier Name		EZZ-ELDEKHELA COMPANY			
Test Requirement		EG-FO-SG-MIR-ST-0003		Clause	
Reference Photos		Yes attached / No		Other	
Item	Description	Unit	Quantity	Arrival Date	Note
1	STEEL DIAMETER 12MM	TON	48.476	15-02-2023	G.R.
2					
3					
4					
Comments by:			Comments by:		
* Material approved as quantities and for mentioned test results.					

APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor Engineer	MORCOS EDWARD			22-3-2023	A
Contractor QA/QC					A
GARB*					
Employers Representative	Abdulrahman Sdoss		QA/QC S.R.	22.3.23	A

* Alignment/Bridges: Culvert only

As Approved, AWCs Approved with Comments; R= Rejected

MATERIAL INSPECTION REQUEST					
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Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)																	
Issued by Contractor	Name ENG.MORCOS EDWARD	Sign	Date 22-3-2023	Time																	
Contractor Reference	EG-FO-SG-MIR-ST-0004			Revision DO																	
Received by ER	Abdelrahman Saeed	MIR	<table border="1"> <tr> <td>01</td><td>02</td><td>03</td><td>00</td><td>MM</td><td>YY</td><td>HH</td><td>MM</td> </tr> <tr> <td>49</td><td>26</td><td>45</td><td>22</td><td>3</td><td>23</td><td>14</td><td>41</td> </tr> </table>	01	02	03	00	MM	YY	HH	MM	49	26	45	22	3	23	14	41		
01	02	03	00	MM	YY	HH	MM														
49	26	45	22	3	23	14	41														
CODE-1 S1 to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 R0 to XX For Kilometer points only	CODE-2 Work Activity	CODE-3 Sub Element of Activity																	

Description of Materials		HIGH TENSILE REINFORCING STEEL B500DWR	
Location to be Used		CULVERTS ST(492+640 TO 508+524)	
MAR Approval No		Kp492 CU MS 22-3-2023 13:56	
Supplier Name		ELMARAKBY STEEL COMPANY	
Test Requirement		EC - FO-SG - T R C Specification	
Reference Photos		Yes attached / No Other	
Item	Description	Unit	Quantity
1	STEEL DIAMETER 16MM	TON	1.024
2	STEEL DIAMETER 18MM	TON	0.24
3			
4			
Comments by: E.R.		Comments by:	
Material approved as per the attached quantities and the mentioned test results.			

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	ENG.MORCOS			22-3-2023
Engineer	EDWARD			
Contractor QA/QC				
GARB*				
Employers Representative	Abdelrahman Saeed		QA Sec	22.3.23

* Alignment/Bridges: Culvert only

As Approved: AWC- Approved with Comments; Re- Rejected

SUBMISSION OF DOCUMENTS



Location Name		Contractor Company		Designer Company	
		EG CONTRACT			
Contractor ISSUED	Name	Sign	Date	Designation	
	MORCOS EDWARD	Morcos Edward	27/2/2023		
Contractor Reference	EG-FO-SG-SUB-ST-0004			Revision 01	
Designer RECEIPT	Name	Sign	Date	Designation	
Designer Reference				Revision	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW

Item	Document No	Revision	Title	Number of Sheets
1	1	Revision 01	APPROVAL OF ELMARAKBY STEEL	3
2				
3				
6				
7				
8				
9	CR			

Designer Comments:

+ Material approved.
+ Contractor to submit MRP for all supplies.
+ Samples to be taken as per project specs and EGP.

Designer REPLY	Name	Sign	Date	Designation

ER RECEIPT	Name	Sign	Designation
	Abdel Rahman Sidess		QA/QC Sr.

Note: Response to Contractor shall be by letter with Any comments attached

ER Document No:

SUB

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
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

CODE-1 \$1 to \$21 Station Reference	CODE-1 01 to 03 Project Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

SUBMISSION OF DOCUMENTS



Location Name		Contractor Company		Designer Company	
		EG CONTRACT			
Contractor ISSUED	Name	Sign	Date	Designation	
	MORCOS EDWARD	Morcos Edward	27/2/2023		
Contractor Reference	EG-FO-SG-SUB-ST-0001			Revision 01	
Designer RECEIPT	Name	Sign	Date	Designation	
Designer Reference				Revision	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW

Item	Document No	Revision	Title	Number of Sheets
1	1	Revision 01	APPROVAL OF EGYPTIAN STEEL	92
2				
3				
6				
7				
8				
9				

Designer Comments: *Code: A.M.*

* Material approved.

* Contractor to submit M/R for all supplies.

* Samples to be taken as per project specs. and ECP.

Designer REPLY	Name	Sign	Date	Designation

ER RECEIPT	Name	Sign	Designation
	Mohamed Rahman Idness	<i>[Signature]</i>	QA/QC Sr.

Note: Response to Contractor shall be by letter with any comments attached

ER Document No: SUB

CODE-1 S1 to S21 Station Reference

CODE-1 D1 to D1 Desol Reference

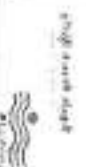
CODE-1 Km XXX For Kilometer point only

CODE-2 Work Activity

CODE-3 Sub Element of Activity

C1	C2	C3	DD	MM	YY	HH	MM
491	CU	HS	26	2	23	14	45

SUBMISSION OF DOCUMENTS



Location Name		Contractor Company		Designer Company	
		EG CONTRACT			
Contractor ISSUED	Name	Sign	Date	Designation	
	MORCOS EDWARD	Morcos Edward	27/2/2023		
Contractor Reference	EG-FO-SG-SUB-ST-0003			Revision 01	
Designer RECEIPT	Name	Sign	Date	Designation	
Designer Reference				Revision	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW

Item	Document No	Revision	Title	Number of Sheets
1	1	Revision 01	APPROVAL OF EZZ-ELDEKHELA STEEL	31
2				
3				
6				
7				
8				
9				

Designer Comments:

Code 'A' :-

* Material approved.

* Contractor to submit MVR for all supplies.
+ Samples will be taken as per project
Specs and ECP.

Designer REPLY	Name	Sign	Date	Designation

ER RECEIPT	Name	Sign	Designation													
	Abdelrahman I. Idriss		QA/A/C Sr.													
Note: Response to Contractor shall be by letter with Any comments attached			ER Document No:			SUB			C1	C2	C3	DO	MM	YY	HH	MM
									10	01	05	28	2	23	14	40
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						

SUBMISSION OF DOCUMENTS



Location Name		Contractor Company		Designer Company	
		EG CONTRACT			
Contractor ISSUED	Name	Sign	Date	Designation	
	MORCOS EDWARD	Morcos Edward	27/2/2023		
Contractor Reference	EG-FO-SG-SUB-ST-0002			Revision 01	
Designer RECEIPT	Name	Sign	Date	Designation	
Designer Reference				Revision	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW

Item	Document No	Revision	Title	Number of Sheets
1	1	Revision 01	APPROVAL OF SUES STEEL	18
2				
3				
6				
7				
8				
9	ER			

Designer Comments:

+ Material approved.
+ Contractor to submit HIR for all supplies.
+ Examples to be taken as per project specs and ECP.

Designer REPLY	Name	Sign	Date	Designation

ER RECEIPT	Name	Sign	Designation
	Model Rahman Edress	gnf	QA/QC Sr.
Note: Response to Contractor shall be by letter with any comments attached			
CODE-1 \$1 to \$21 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

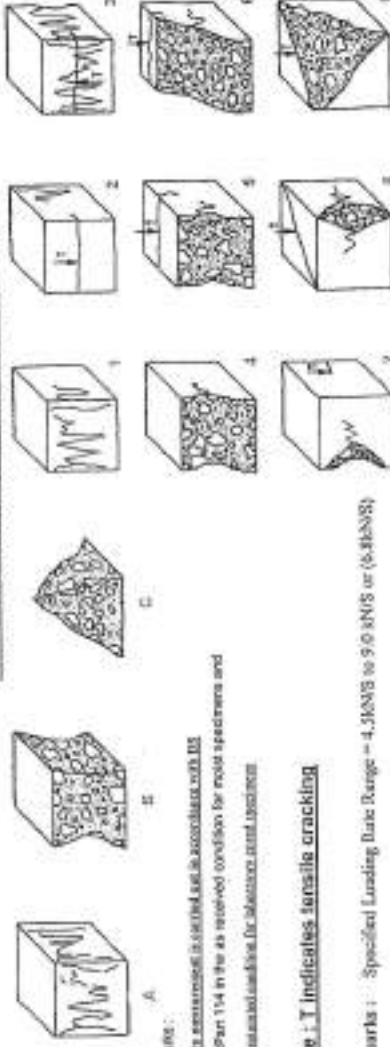


CONCRETE READY MIX

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES Test Standard BS 1881 - Part 116:1983 AND 4097:1989, 6720:1991

CLIENT	EG CONTRAK		SAMPLED BY	
PROJECT	Culverts From 492+640 To 593+720 EET		SAMPLING METHOD	BS 1881
CONSULTANT	Systra		Comsat/Constr./Type	425 OPC
CONTRACTOR			STRUCTURE TYPE	Trial Mix
DATE OF CASTING	11-Dec-22	SPECIFIED STRENGTH f_{ck} 400		
Specimen Reference				
Date of Test	20-Dec-22	20-Dec-22	12-Jan-23	12-Jan-23
Age of Test (Days)	9	9	32	32
Weight (g)	8428	8542	8475	8556
Failure Load (kN)	954	957	1024	1340
Comp. Strength Kg/cm ²	432	464	608	607
Average 3 Days				
Average 7 Days	443			
Average 28 Days	580			

MODES OF FAILURE AS PER BS 1881 - Part 116 : 1983.



Refract:

Refract measurement is carried out in accordance with BS 1881 Part 114 in the as received condition for most specimens and in the saturated surface dry condition for reference test specimen.

Note : T Indicates tensile cracking

Remarks : Specified Loading Rate Range = 4.3MN/s to 9.0 MN/s or (kN/s)

Concrete eng 1

23/1/23

12/1/23

12/1/23

شركة كونكريت
ريدي ميكس
ادارة العمل



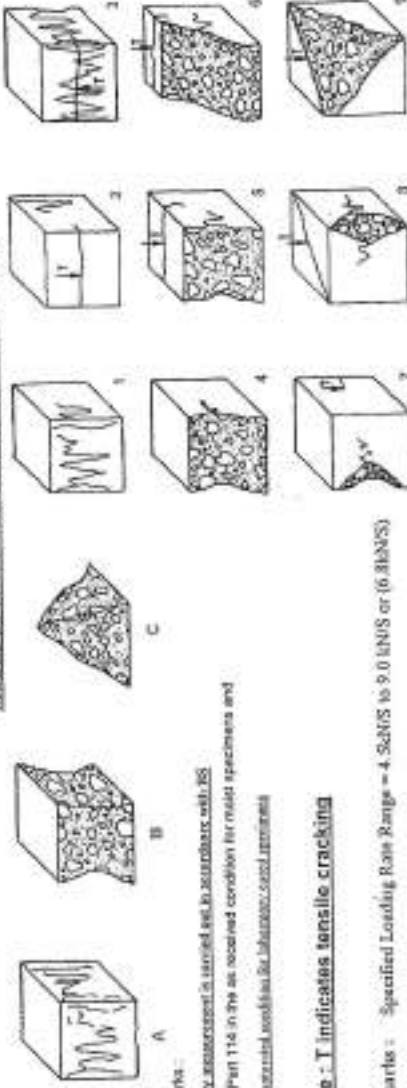
CONCRETO READY MIX

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES
Test Standard BS 1881 - Part 116:1983 AND 6097:1989, 6720:1991

CLIENT	EG CONTRAK		SAMPLED BY	1
PROJECT	Culverts From 492+640 To 503+720 EET		SAMPLING METHOD	BS 1881
CONSULTANT	Systra		Cement Content/Type	425 OPC
CONTRACTOR			STRUCTURE TYPE	Trial Mix
DATE OF CASTING	11-Dec-21	SPECIFIED STRENGTH		400

Specimen Reference	20-Dec-21	20-Dec-21	20-Dec-21	8-Jan-22	8-Jan-22	8-Jan-22
Date of Test	9	9	9	28	28	28
Age of Test (Days)	8428	8542	8521			
Weight (g)	954	957	1024			
Failure Load (kN)	432	434	464	0	0	0
Comp. Strength Kg/cm ²						
Average 3 Days	443					
Average 7 Days						
Average 28 Days						

MODES OF FAILURE AS PER BS 1881 - Part 116 - 1983



Remarks:

Quality assessment is carried out in accordance with BS 1881 Part 116 in the as received condition for trial specimens and as the concrete works for information and record.

Note: T indicates tensile cracking

Remarks: Specified Loading Rate Range = 4.5kN/s to 9.0 kN/s or (6.8kN/s)

Concrete eng:

[Signature]

Systra:

[Signature]
c.c.c / 18 / 1

EG CONTRACK

[Signature]
c.c.c / 18 / 1

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0003				
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference	Revision				
Received by ER	Name Kareem Ibrahim	Sign Kareem Ibrahim	Date MAR 2023	Designation Kareem Ibrahim	
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Deposit Reference		CODE-2 Work Activity	
				CODE-3 Sub Element of Activity	

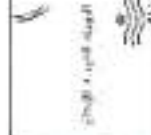
Description of Materials	REINFORCING CORRIGATED STEEL				
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)				
Sample only	Yes / No	Materials Type	B500DWR		
Supplier Name	EZ- ELDEKHELA COMPANY	Data Sheet provided	Yes attached / No		
Reference in BoQ		Specification	Clause		
Prequalification reference		Test Samples Results			
Reference Photos	Yes attached / No	Other			
Comments by:		Comments by:			
Approval of Materials is only for B500DWR Contractor is responsible for providing Required Tests as per project spec with ACR MAR is approved as per previous approval as per attached		+ Final approval subjected to approval of test results.			

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD	Morcos Edward		
Designer				
GARB*				
Employers Representative	Kareem Ibrahim	Kareem Ibrahim	Lead Civil Eng	28.2.23
A= Approved, AWC= Approved with Comments, R= Rejected				

Location Name		Contractor Company		Designer Company							
FOKA		EG CONTRACT		NECB							
Issued by Contractor	Name	Sign	Date	Designation							
	MORCOS EDWARD			Marcos Edward							
Contractor Reference	EG-FO-5G-MAR-5T-0004		Revision 00 <i>2/23/14</i>								
Designer Receipt	Name	Sign	Date	Designation							
Designer Reference			Revision								
Received by ER	<i>Mohd Rahman</i>	<i>[Signature]</i>	MAR	C1	C2	C3	D0	MM	YY	HH	MM
	<i>Sdness</i>			<i>KP</i>	<i>CV</i>	<i>NS</i>	<i>28</i>	<i>2</i>	<i>23</i>	<i>14</i>	<i>45</i>

Description of Materials	REINFORCING CORRIGATED STEEL				
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)				
Sample only	Yes / No	Materials Type	B500DWR		
Supplier Name	ELMARAKBY STEEL COMPANY	Data Sheet provided	Yes attached / No		
Reference in BoQ		Specification	Clause		
Pregualification reference		Test Samples Results			
Reference Photos	Yes attached / No	Other			
Comments by:		Comments by:			
Approval of Materials is only for B500DWR Contractor is responsible for providing required Tests as per project specs with MR ENR is approved as per previous approval as per attached Final approved subjected to approval of test results.					
APPROVAL STATUS					
Organisation	Name	Sign	Designation	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward			A
Designer					
GARB*					
Employers Representative	Kenan Ibrahim	Kenan Ibrahim	Local Civil Eng	28.2.23	AWC

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Designation	
MORCOS EDWARD		Morcos Edward			
Contractor Reference	EG-FO-SG-MAR-ST-0002				
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference	Revision				
Received by ER	Name	Sign	Date	Designation	
Karim Doshan					
	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	REINFORCING CORRIGATED STEEL				
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)				
Sample only	Yes / No	Materials Type	B500DWR		
Supplier Name	ELSUEZ COMPANY	Data Sheet provided	Yes attached / No		
Reference in BoQ		Specification	Clause		
Prequalification reference		Test Samples Results			
Reference Photos	Yes attached / No	Other			

Comments by:

⑤ Approval of Materials is only for B500DWR

⑥ Contractor is responsible for providing required Tests as per project specs with MFR

⑦ MFR is approved as per previous approval as per attached

+ Final approval subjected to approval of test results

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD	Morcos Edward		
Designer				
GARB*				
Employers Representative	Karim Doshan	for	Lead QA/QC Eng	28.2.23
				AWC

* Alignment/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0001				
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference					
Received by ER	<i>Kareem Ibrahim</i>	<i>Fer. A.</i> <i>[Signature]</i>	MAR		
CODE-1 S1 to S21 Station Reference CODE-1 D1 to S3 District Reference CODE-1 Kp XXX For Kilometer point only CODE-2 Work Activity CODE-3 Sub Element of Activity					
C1	C2	C3	DD	MM	YY
KP	CU	MS	28	2	23
HH	MM	MM			
48	14	48			

Description of Materials		REINFORCING CORRIGATED STEEL		
Location to be Used		CULVERTS FROM ST(492+640) TO ST(503+720)		
Sample only	Yes / No	Materials Type	B500DWR	
Supplier Name	EGYPTIAN STEEL COMPANY	Data Sheet provided	Yes attached / No	
Reference in BoQ		Specification	Clause	
Prequalification reference		Test Samples Results		
Reference Photos	Yes attached / No	Other		
Comments by: <i>Systrac</i>		Comments by:		
<i>Approval of Material is only for B500DWR</i> <i>Contractor is responsible for providing tests as per project specs with MIR</i> <i>MIR approved as per previous approval as per attached</i>		<i>+ Final approval subjected to approval of test results.</i>		

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD	<i>[Signature]</i>		
Designer				
GARB*				
Employers Representative	<i>Ronan Dorehen</i>	<i>[Signature]</i>	Lead QA/QC Engineer	28/2/23

* Alignment/Bridges: Culvert only

A= Approved/AWC= Approved with Comments: Re-Selected

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
CULVERT ST(503+630)		EG-CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)	
Issued by Contractor	Name	Sign	Date	Time	
ENG. MORCOS EDWARD	ENG. MORCOS EDWARD	Morcos Edward	01/03/2023		
Contractor Reference	EG-FO-5G-TRF-ST-0001				
Received by ER	Abdel Rahman Idress	TRF	CP	CU	MS
			MM	YY	HH
			23	23	14
			15		

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials
 CORRIGATED STEEL B500DWR
 7 SPECIMENS OF STEEL DIA 12 (ELSUEZ COMPANY)
 7 SPECIMENS OF STEEL DIA 16 (ELSUEZ COMPANY)
 7 SPECIMENS OF STEEL DIA 18 (EGYPTIAN STEEL)

Location of Test
 FACULTY OF ENGINEERING ALEXANDRIA UNIVERSITY

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	MECHANICAL	3		
2	CHEMICAL	3		
3				
4				
5				

Comments by: ER-	Comments by:
* Test results are approved as per attached. * Test results are under responsibility of contractor and 3rd party lab.	

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	ENG. MORCOS EDWARD	Morcos Edward	01/03/2023
Designer			
GARB *			
Employers Representative	Abdel Rahman Idress		2/3/2023
			A

* Alignment / Bridges: Culvert Only
 A= Approved; AWC= Approved with Comments; R= Rejected

SUBMISSION of TEST RESULTS



مركز المهندسين الاستشارية
للجسر والطرق والجدران
1 شارع 100
القاهرة 11523



Location Name	Contractor Company		Designer Company
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FOKA	EG-CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)
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Issued by Contractor	Name	Sign	Date	Time
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Contractor Reference	EG-FO-SG-TRF-ST-0002	Revision00		
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Received by ER	Abdelrahman Idrees	TRF	C1	C2	C3	D0	MM	YY	HH	MM
			15/03/23	15	22	3	23	13	52	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials				
CORRIGATED STEEL B500DW				
7 SPECIMENS OF STEEL DIA 12(EL-ELDEKHELA COMPANY)				
7 SPECIMENS OF STEEL DIA 16(ELMARAKBY STEEL COMPANY)				
7 SPECIMENS OF STEEL DIA 18(ELMARAKBY STEEL COMPANY)				
FACULTY OF ENGINEERING ALEXANDRIA UNIVERSITY				
Location of Test				
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	MECHANICAL		3	
2	CHEMICAL		3	
3				
4				
5				

Comments by:	Comments by:
--------------	--------------

* Test results approved and per attached.

* Test results are under responsibility of Contractor and 3rd party lab.

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWCR
Contractor	ENG.MORCOS EDWARD	Morcos Edward	11/03/2023	A
Designer				A
GARB *				
Employers Representative	Abdelrahman Idrees		22.3.23	A

* Alignment / Bridges: Culvert Only

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

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign	Date	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0002				
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference	Revision				
Received by ER	Abdulrahman Idkiss	MAR	492	C1	C2
				C3	C4
				DD	MM
				YY	HH
				MM	MM
				23	13
				50	50
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-2 Work Activity	
		For Kilometer point only		CODE-3 Sub Element of Activity	

Description of Materials	REINFORCING CORRIGATED STEEL				
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)				
Sample only	Yes / No	Materials Type	B500DWR		
Supplier Name	ELSUEZ COMPANY	Data Sheet provided	Yes attached / No		
Reference in BoQ		Specification	Clause		
Prequalification reference		Test Samples Results	EG-FO-SG-TRF-S5-00		
Reference Photos	Yes attached / No	Other			
Comments by: GR:	Material approved with reference to the mentioned test results.				

APPROVAL STATUS				
Organisation	Name	Sign	Designation	A-AWC-R
Contractor	MORCOS EDWARD			A
Designer				
GARB*				
Employers Representative	Abdulrahman Idkiss		QAWAC S.R.	23.3.23
				A

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

MATERIAL APPROVAL REQUEST



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign	Date	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0001			Revision 01	
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference				Revision	
Received by ER	Abdullah Edress		MAR 49 2022		
CODE-1 S1 to S21 Station Reference		CODE-1 D1 to S3 Depot Reference		CODE-2 Xp XXX For Kilometer point only	
				CODE-3 Work Activity	
				CODE-3 Sub Element of Activity	

Description of Materials	REINFORCING CORRIGATED STEEL	
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)	
Sample only	Yes / No	Materials Type
Supplier Name	EGYPTIAN STEEL COMPANY	Data Sheet provided
Reference in BoQ		Specification
Prequalification reference		Test Samples Results
Reference Photos	Yes attached / No	Other
Comments by: <i>CE</i>		Comments by:

+ Material approved with reference to the mentioned test results.

EG-FO-SG-MAR-ST-0001

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	MORCOS EDWARD			
Designer				
GARB*				
Employers Representative	Abdullah Rahman Edress		Asst. Sr. Engr.	22.3.23

* Alignment/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



تمت الموافقة على
المواد المستخدمة
في المشروع
في 11/03/2023



Location Name		Contractor Company		Designer Company	
FOKA		EG-CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)	
Issued by Contractor	Name ENG.MORCOS EDWARD	Sign Morcos Edward	Date 11/03/2023	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0004			Revision01	
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference				Revision	
Received by ER	Abdulkhman Idress	MAR	11/03/2023	11/03/2023	11/03/2023

CODE-1 SS03+720 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 HP 503+720 For Kilometer point only	CODE-2 POURING P.C.	CODE-3 Sub Element of Activity
---	---------------------------------------	--	------------------------	-----------------------------------

Description of Materials	REINFORCED CORRIGATED STEEL			
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)			
Sample only	Yes / No	Materials Type	B500DWR	
Supplier Name	ELMARAKBY STEEL COMPANY	Data Sheet provided	Yes attached / No	
Reference in BOQ		Specification	Clause	
Prequalification reference		Test Samples Results	EG-FO-SG-TRF-ST-00	
Reference Photos	Yes attached / No	Other		
Comments by: CEP	Comments by:			
+ Material approved for use. + Contractor to submit MTR for any supplies. + Contractor to commit to regular tests as per				

APPROVAL STATUS				
Organisation	Name	Sign	Designation	A-AWC-R
Contractor	ENG.MORCOS EDWARD	Morcos Edward	11/03/2023	A
Designer				
GARB*				
Employers Representative	Abdulkhman Idress	<i>gnt</i>	CA/16C ST.	22.3.23 A

* Alignment/Bridges: Culvert only

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

MATERIAL APPROVAL REQUEST



شركة الجسر
مصر
القاهرة
مصر



Location Name		Contractor Company		Designer Company	
FOKA		EG-CONTRACT		NECB (NILE ENGINEERING CONSULTING BUREAU)	
Issued by Contractor	Name ENG. MORCOS EDWARD	Sign Morcos Edward	Date 11/03/2023	Designation	
Contractor Reference	EG-FO-SG-MAR-ST-0003			Revision: 01	
Designer Receipt	Name	Sign	Date	Designation	
Designer Reference				Revision	
Received by ER	Abdelrahman Idress	MAAR	C1 19/03/2023	C2 20/03/2023	C3 21/03/2023
CODE-1 S503+720 Station Reference		CODE-1 D1 to S3 Deposit Reference		CODE-2 Kp S03+720 For Kilometer point only	
				CODE-2 POURING P.C.	
				CODE-3 Sub Element of Activity	

Description of Materials	REINFORCED CORRIGATED STEEL	
Location to be Used	CULVERTS FROM ST(492+640) TO ST(503+720)	
Sample only	Yes / No	Materials Type B500DWR
Supplier Name	EZ-ELDEKHELA COMPANY	Data Sheet provided Yes attached / No
Reference in BOQ		Specification Clause
Prequalification reference		Test Samples Results EG-FO-SG-MAR-ST-0002
Reference Photos	Yes attached / No	Other

Comments by: E.R.

Comments by:

* Material approved for use.
* Contractor to submit MR for any supplies.
* Contractor to commit to regular tests as per project docs.

APPROVAL STATUS				
Organisation	Name	Sign	Designation	Date
Contractor	ENG. MORCOS EDWARD			11/03/2023
Designer				
GARB*				
Employers Representative	Abdelrahman Idress		CA/DOC S.R.	21.3.23

* Alignment/Bridges: Culvert only

As Approved, AWC- Approved with Comments; R- Rejected

SUBMISSION OF DOCUMENTS



Contractor Company	EGCONTRACT		Designer Company		CONCRETO
Issued by Contractor	Name	Sign	Date		Time
	MORCOS EDWARD	Morcos Edward			
Received by ER	Ahmed Mokhtar	SUB	C1	C2	C3
			10/11/2023	15	11 30

CODE-1	S1 to S21	D1 to S3	Kp XXX Note
CODE - 2	Station Reference	Depot Reference	For Kilometer point only Start Km is used
CODE - 3	Sub Element of Activity		

NB: Package 1 Only (Package 2 via Aconex)				
THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW				
Item	Document No	Revision	Title	Number of Sheets
1			Reinforced Concrete Mix Design C40	1
2				
3				
6				
7				
8				
9				
Comments by: SYSTRAL				
1. Mix design for C32/40 is approved.				
2. Test results are under responsibility of the contractor and batch plant.				

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	Morcos Edward	Morcos Edward		A
Designer	Morcos Edward		10/11/2023	A
GARB *				
ER	Abdel Rahman Idress		18/11/2023	A
NAT				

* Alignment/ Bridges/ Culverts only



Customer

Project

Mix Identification

Strength Required

Concrete Grade

EG CONTRAK

Electric Express Train

425 KG./CUBIC METER CEMENT CONTENT

400 KG/C/M2 @ 28 DAYS

C40

MIX PROPORTION**MATERIAL DESCRIPTION**

Materials	Specific Gravity Ton/Cu.M	Weight Kg/Cu.M	Volume Cu.Mx10 ³
Cement	3.15	425	134.92
Sand	2.60	730	280.77
Agg. Size-2	2.57	500	194.55
Agg. Size-1	2.57	525	204.28
Water	1.00	153	153
Total Water (±5)	1.00	165	0
Air Voids	1.5%	0	15
Admix 1 (R4PN) (±0.5)	1.21	8.0	6.6
Admix 2 (901EG)	1.015	12	11.82
TOTAL		2365	1001

Cement	CEM I
Brand	Wataraya Beni Sud
Coarse Aggregate	Size 1 & Size 2
	conform ASTM C33
Source	(Wadi El nitroun)
Fine Aggregate	Natural Wadi SAND
	conform ASTM C33
Source	Khatlatba
Water	CITY SOURCE
	(potable).
Admixture 1	Type- Retarder / Plasticizer
Admixture 2	Type- Corrosion inhibiting
Brand	
Water/Cement (FREE)	0.35
Water/Cement (TOTAL)	0.39
SLUMP (Initial)	220 ± 2 mm
SLUMP (After 30 min)	180 ± 2 mm
Con-Grade / Class	C40
Standard Used	Project Spec.
Sample Tested	150X150X150mm(CUBE.)
Agg. Nom. Max. Size	19 mm
Age at test	28 days
Min. Comp. Strength	400 kg./sq. cm
Standard Deviation * k	66 kg./sq. cm
Mean Comp. Strength	466 kg./sq. cm

على المتكامل على التجارب التكرارية للمركب
مختبر الخرسانة والحديد



C40-425 OPC

SUBMISSION OF DOCUMENTS



Contractor Company	EG CONTRACT		Designer Company											
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time										
Received by ER	Abdel Rahman Edress	Sdness	<table border="1"> <tr> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td>18</td> <td>1</td> <td>23</td> <td>9</td> <td>00</td> </tr> </table>	DD	MM	YY	HH	MM	18	1	23	9	00	
DD	MM	YY	HH	MM										
18	1	23	9	00										

CODE - 1	S1 to S21	D1 to S3	kg XXX Note
CODE - 2	Station Reference	Depot Reference	For Kilometer point only Start Km is used
CODE - 3	Sub Element of Activity		

NB: Package 1 Only (Package 2 via Aconex)				
THE FOLLOWING DOCUMENTS ARE ATTACHED FOR REVIEW				
Item	Document No	Revision	Title	Number of Sheets
1			MOUNTAIN VIEW MACHINE CALIBRATION	1
2			MOUNTAIN VIEW BATCH PLANT CALIBRATION	7
3			FINE AGGREGATE	6
6			QUALITY CONTROL PROCEDURS	17
7			CONCRETO READY MIX SUMMARY	40
8			ELMASSA YASSIN CRUSHER	10
9				
Comments by: SYSTRA:				
1. Batch plant approved for supply. 2. Contractor to submit trial mix test results for RC & PC.				

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			
GARB *			
ER	Abdel Rahman Edress		18.1.23
NAT			

* Alignment/ Bridges/ Culverts only

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time																
Contractor Reference				Revision																
Received by ER	<i>192</i>	<i>[Signature]</i>	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>OD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	OD	MM	YY	HH	MM								
C1	C2	C3	OD	MM	YY	HH	MM													

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE RAFT C400 .	
Location of Test		MID PART RC RAFT OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	7 DAYS	1	Remarks 21-9-2023
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>	
Designer			A
GARB *			
Employers Representative	<i>192</i>	<i>[Signature]</i>	<i>9/9/2023</i>

* Alignment / Bridges: Culvert Only

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

Company Name : EG CONTRACK
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh
Report Date : 21-09-2023
Report No : 26
Location : RC Raft Culvert St. (508+524)
Supplier : Concreto Ready Mix

COMPRESSIVE STRENGTH RESULTS OF CUBE 15*15*15 CM CONCRETE SPECIMENS

Mix ID : C 400/425 OPC

Date of		Age	Location	Weight (gm)	AVG Weight (gm)	Density (gm/cm) ³	Load (k.N)	Strength (Kg/cm ²)	Ave. Strength (Kg/cm ²)	Percentage %
Casting	Testing	Days								
14-9-2023	21-9-2023	7	RC Raft Culvert St. (508+524)	8315	8386	2.48	673	305	286	71
				8386			718	325		
				8456			502	227		

Note: تم توريد المكعبات بواسطة العميل والمعمل غير مسؤول عن كيفية أخذ ومعالجة العينات

Signature / ...

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																		
FOKA		EG CONTRACT		NECB																		
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time																		
Contractor Reference				Revision																		
Received by ER	<i>AL</i>	<i>AL</i>	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>D0</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	C1	C2	C3	D0	MM	YY	HH	MM									<i>9/7/2016</i>	
C1	C2	C3	D0	MM	YY	HH	MM															

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE RAFT C400 .	
Location of Test		MID PART RC RAFT OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	Remarks 14-10-2023
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>	
Designer			A
GARB *			
Employers Representative	<i>AL</i>	<i>AL</i>	<i>9/7/2016</i>

* Alignments / Bridges: Culvert Only

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

Company Name : EG CONTRACK
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh
Report Date : 14-10-2023
Report No : 41
Location : raft culvert st (508+524) medium part
Supplier : Concreto Ready Mix

COMPRESSIVE STRENGTH RESULTS OF CUBE 15*15*15 CM CONCRETE SPECIMENS

Mix ID : C 400/425

Date of		Age	Location	Weight (gm)	AVG Weight (gm)	Density	Load (k.N)	Strength (Kg/cm ²)	Ave. Strength (Kg/cm ²)	Percentage %
Casting	Testing	Days				(gm/cm ³)				
14-9-2023	14-10-2023	30	raft culvert st (508+524) medium part	8497	8481	2.51	861	390	480	120
				8427			1199	543		
				8519			1117	506		

Note: تم توريد المكعبات بواسطة العميل والمعمل غير مسئول عن كيفية أخذ و معالجة العينات

Signature /

مكتب معامل الاستشارات الهندسية
د. طارق السيد السيد
27367231 - 27363093
القاهرة - مصر

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor		Name	Sign	Date	
MORCOS EDWARD		Morcos Edward			
Contractor Reference				Revision	
Received by ER	AT	AT	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	7
				24	12
				19	

-NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW				
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE RAFT C400 .		
Location of Test		1 ST & 3 RD PART RC RAFT OF CULVERT 508+524		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	28 DAYS		1	30-11-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			
GARB *			
Employers Representative	AT		9/12/24

* Alignment / Bridges: Culvert Only

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



شركة الشريف للمطاريات العمومية المتكاملة والتوريدات
 قطاع الخرسانة الجاهزة
 محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	لبشة مساحة (٥٠٨+٥٢٤) ر & \	
Casting Date	02/11/2023	
Report Date	30/11/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	02/11/2023	30/11/2023	28	8230	2.44	1069	484	497	124
				8168	2.42	1088	493		
2	02/11/2023	30/11/2023	28	8222	2.44	1135	514		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
 Eng. Mohamed Ibrahim



SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	Morcos Edward				
Contractor Reference				Revision	
Received by ER	19.1		TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	7
				2	4
				1	2
				7	6

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .	
Location of Test		MID PART RC WALLS OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	7 DAYS	1	Remarks
2			18-11-2023
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			A
GARB *			
Employers Representative	19.2		9/17/24
			A

* Alignment / Bridges: Culvert Only

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

Company Name : EG CONTRACK
Project : Electric Express Train, from Al Ain Sokhna to Marsa Matrouh
Report Date : 18-11-2023
Report No : 55
Location : Walls middle part Culvert St. (508+524)

COMPRESSIVE STRENGTH RESULTS OF CUBE 15*15*15 CM CONCRETE SPECIMENS

Mix ID : C 400/425

Date of		Age	Location	Weight (gm)	AVG Weight (gm)	Density (gm/cm ³)	Load (k.N)	Strength (Kg/cm ²)	Ave. Strength (Kg/cm ²)	Percentage %
Casting	Testing	Days								
11-11-2023	18-11-2023	7	Walls middle part Culvert St. (508+524)	8425	8507	2.52	880	399	432	108
				8470			1056	478		
				8627			926	419		

Note: تم توريد المكعبات بواسطة العميل والمعمل غير مسئول عن نتائج اختبار المكعبات العيانية

Signature /

المسجل الشخصي
إم. حسن محمد
م. حسن محمد
م. حسن محمد



شركة الشرف للمقاولات العمومية المتكاملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

تقرير نتائج اختبار الضبط للمكعبات

النظر السريع
(OPC) ٤٢٥
٤٠٠

المشروع :
مطوي الإسمنت :
الاجهه المطلوب :

إلى كوتوك
لبنه مسطحة لاسن ١ و ٣ برفع ٥٠٠٨٤٥٢٤
٢٠٢٣/١٠/٠٢

العمل :
مضغ الصب :
تاريخ الصب :

نتائج الاختبار

رقم المكعب	تاريخ الصب	تاريخ الاختبار	المر (مم)	الوزن (جم)	الارتفاع			النتيجة (م) (طن/م3)	حقل المسح (كثيرات)	الاجهه (مجموعه) (٢٠٠)	النسبة النسبة %	مجموعة الاجهه (مجموعه) (٢٠٠)
١				٨٢٣٦	١٥	١٥	١٥	٦,٤٨	١٢٣٩	٥١		
٢				٨٢٩١	١٥	١٥	١٥	٦,٤٥	١١٠٤	٥٠		
٣				٨٤٧٧	١٥	١٥	١٥	٦,٥١	٨٧١	٣٩		

ملاحظات :

تم أخذ العينات ومطابقها طبقا للتركيب المسموح به وفق أسس القية
تم اختبار العينات طبقا للأسس القية للمصرية م.ق.م. ١٦٥٨ / ١٩٨٩
تم أخذ العينات في وجود مهندسين المختار ومهندسين الاستشر في.



SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Marcos Edward</i>	Date	Time	
Contractor Reference				Revision	
Received by ER	<i>AL</i>	<i>AL</i>	TRF	C1	C2
				C3	D0
				MM	YY
				HH	MM
				2	7
				26	11
				20	23

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .
Location of Test	1 ST & 3 RD PART RC WALLS OF CULVERT 508+524
Item	Specification
1	7 DAYS
2	
3	
4	
5	

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Marcos Edward</i>	
Designer			A
GARB *			
Employers Representative	<i>AL</i>	<i>[Signature]</i>	21/7/2024

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	بريخ ٥٠٨+٥٢٤ حوايط ٢ & ١	
Casting Date	19/11/2023	
Report Date	26/11/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	19/11/2023	26/11/2023	7	8132	2.41	836	379	390	97
2				8214	2.43	844	382		
3				8201	2.43	868	393		
4				8199	2.43	899	407		
5				8146	2.41	852	386		
6				8123	2.41	862	390		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	Morcos Edward				
Contractor Reference				Revision	
Received by ER	A2		TRF	CS	CS
				DO	MM
				YY	HH
				2	2
				2	11

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .				
Location of Test	1 ST & 3 RD PART RC WALLS OF CULVERT 508+524				
Item	Specification	Test Requirement	Test Result Attachment	Remarks	
1	28 DAYS		1	17-12-2023	
2					
3					
4					
5					

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A2		21/12/21	A

* Alignment / Bridges: Culvert Only

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

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB																	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time																	
Contractor Reference				Revision																	
Received by ER	A.L	df	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>D0</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2</td> <td>7</td> <td>20</td> <td>12</td> <td>09</td> </tr> </table>		C1	C2	C3	D0	MM	YY	HH	MM				2	7	20	12	09
C1	C2	C3	D0	MM	YY	HH	MM														
			2	7	20	12	09														
NB: Package 1 Only (Package 2 via Aconex)																					
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW																					
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .																			
Location of Test		MID PART RC WALLS OF CULVERT 508+524																			
Item	Specification	Test Requirement	Test Result Attachment	Remarks																	
1	28 DAYS		1	9-12-2023																	
2																					
3																					
4																					
5																					

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A.L	df	21/12/24	A

* Alignment / Bridges: Culvert Only

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

Compressive Strength Of Test Concrete Cube Specimens

company:	E G Contract
Batch Plant	Concret Ready Mix
No Culvert	508 + 524
Sample Dimension	15 cm * 15cm *15cm
Contractor	General Authority For Roads Bridges &Land Transport
Project	Electric Express Train (Track Alignment)

Date of Test :	9/12/2023
Casting Date :	11/11/2023

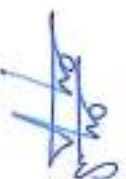
The Results Of Crushing Cubes After The Age Of 28 Days

Cube No	Structure	Cement Content	Weight	Strength	Stress	Average (kg / cm ²)
	Stress		8.587	k.n	k.g/Cm ²	
1	جسر طرقات الميناء المتوسطي	425 (kg / cm ³)	8.570	1046	474	486
2	Culvert 508 + 524		8.595	1116	506	
3	400 (kg / cm ²)		8.630	1055	478	

comment :-

Lab . Engineer

Eng / Mohamed samy



QC . Engineer

Eng/ Ahmed Rzk



Lab . Manger

Eng /Elsayed saleh




Consultant

.....

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time	
Contractor Reference				Revision	
Received by ER	AL	AL	TRF	C1	C2
				C3	C4
				DO	MM
				YY	HH
				MM	MM

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials
COMPRESSIVE STRENGTH OF CONCRETE CUBE
REINFORCED CONCRETE SLAB C400.

Location of Test
1ST & 3RD PART RC SLAB OF CULVERT 508+524

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	6-12-2023
2				
3				
4				
5				

Comments by:

Comments by:

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	AL	AL	9/12/24	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	(٥٠٨+٥٢٤) ٣ & ١ سقف فاصل	
Casting Date	29/11/2023	
Report Date	09/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	29/11/2023	06/12/2023	7	8123	2.41	942	427	410	102
2				8168	2.42	867	393		
3				8096	2.40	903	409		

Notes:

- The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- Samples were taken and processed according to the Egyptian code and technical specifications.
- The samples were tested according to the Egyptian specification CE 1658/1989.
- Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	Morcos Edward				
Contractor Reference				Revision	
Received by ER	AJ		TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				7	9
				24	12
				19	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE SLAB C400 .	
Location of Test		1ST & 3RD PART RC SLAB OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	27-12-2023
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			A
GARB *			
Employers Representative	AJ		9/12/24
			A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	سقف فاصل ١ (٥٠٨+٥٩٤) R&V	
Casting Date	29/11/2023	
Report Date	27/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	29/11/2023	27/12/2023	28	8236	2.44	986	447	449	112
2				8369	2.48	1009	457		
3				8346	2.47	978	443		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng.Mohamed Ibrahim



SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time	
Contractor Reference				Revision	
Received by ER	A2	9/12	TRF	C1	C2
				C3	D0
				9/7	21/12/20

NB: Package 1 Only (Package 2 via Aconex)
 THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .
Location of Test	RC WING WEBS & HEAD BEAMS OF CULVERT 508+524

Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	7 DAYS		1	16-12-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A2	9/12	9/12/24	A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	عمود الريدج طول ٥.٨ + ٠.٧	
Casting Date	09/12/2023	
Report Date	16/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	09/12/2023	16/12/2023	7	8469	2.51	863	391	377	94
2				8212	2.43	830	376		
3				8233	2.44	803	364		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng: Mohamed Ibrahim

Contracting Elshreif
مقاولات الشريف
مكتب رأس الحكمة

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	MORCOS EDWARD				
Contractor Reference				Revision	
Received by ER	PA2	AB	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9/7/24	12/21

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .		
Location of Test		RC WING WEBS & HEAD BEAMS OF CULVERT 508+524		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	28 DAYS		1	6-1-2024
2				
3				
4				
5				

Comments by:

Comments by:

--	--	--	--

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	MORCOS EDWARD		A
Designer				A
GARB *				
Employers Representative	ME	AB	9/7/24	A

* Alignment / Bridges: Culvert Only

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



شركة الشريط للمقاولات العمومية المتكاملة والتوريدات
قطاع الخرسانة الجاهزة
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	عصب الوبنج رول ٥٢٤+٥٠٨	
Casting Date	09/12/2023	
Report Date	06/01/2024	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	09/12/2023	06/01/2024	28	8500	2.52	1083	491	525	131
				8608	2.55	1205	546		
2	09/12/2023	06/01/2024	28	8376	2.48	1188	538		
3									

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng.Mohamed Ibrahim

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																
FOKA		EG CONTRACT		NECB																
Issued by Contractor	Name MORCOS EDWARD	Sign Morcos Edward	Date	Time																
Contractor Reference				Revision																
Received by ER	A2	Signature	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>01</td> <td>07</td> <td>20</td> <td>12</td> <td>22</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				01	07	20	12	22
C1	C2	C3	DD	MM	YY	HH	MM													
			01	07	20	12	22													
NB: Package 1 Only (Package 2 via Aconex)																				
THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW																				
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .																		
Location of Test		RC WING FOOTINGS UPSTREAM OF CULVERT 508+524																		
Item	Specification	Test Requirement	Test Result Attachment	Remarks																
1	7 DAYS		1	9-12-2023																
2																				
3																				
4																				
5																				
Comments by:		Comments by:																		

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	Morcos Edward	
Designer			
GARB *			
Employers Representative	A2	Signature	9/17/20

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قاعتيق و رينج الابسقريم (٥٠٨+٥٧٤)	
Casting Date	29/11/2023	
Report Date	09/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	29/11/2023	06/12/2023	7	8130	2.41	899	407	395	99
2				8204	2.43	848	384		
3				8055	2.39	866	392		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name MORCOS EDWARD	Sign <i>Morcos Edward</i>	Date	Time	
Contractor Reference				Revision	
Received by ER	<i>AE</i>	<i>AE</i>	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	7
				26	12
				23	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW			
Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .	
Location of Test		RC WING FOOTINGS UPSTREAM OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	28 DAYS	1	28-12-2023
2			
3			
4			
5			

Comments by:	Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	<i>Morcos Edward</i>	
Designer			
GARB *			
Employers Representative	<i>AE</i>	<i>AE</i>	9/12/24

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قاعتيين وبنج الأستريم (٥٠٨+٥٧٤)	
Casting Date	29/11/2023	
Report Date	27/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm3)	Load (KN)	strength (Kg/cm2)	Average Strength (Kg/cm2)	Average strength %
1	29/11/2023	27/12/2023	28	8035	2.38	1099	498	492	123
2				8123	2.41	1042	472		
3				8243	2.44	1120	507		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm2.
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	MORCOS EDWARD				
Contractor Reference				Revision	
Received by ER	A1	AL	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	2
				24	12
				74	

QNB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .	
Location of Test		RC WING FOOTINGS DOWNSTREAM OF CULVERT 508+524	
Item	Specification	Test Requirement	Test Result Attachment
1	7 DAYS	1	9-12-2023
2			
3			
4			
5			

Comments by:

Comments by:

APPROVAL STATUS			
Organisation	Name	Sign	Date
Contractor	MORCOS EDWARD	MORCOS EDWARD	
Designer			
GARB *			
Employers Representative	A1	AL	9/12/24
			A

* Alignment / Bridges: Culvert Only

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

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قاعتيين وبنج لالون سقرم (٥٠٨+٥٢٤)	
Casting Date	30/11/2023	
Report Date	09/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg /cm ²

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Casting Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	30/11/2023	07/12/2023	7	8013	2.37	866	392	386	96
2				8153	2.42	833	377		
3				8163	2.42	855	387		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

SUBMISSION OF TEST RESULTS



Location Name		Contractor Company		Designer Company	
FOKA		EG CONTRACT		NECB	
Issued by Contractor	Name	Sign	Date	Time	
MORCOS EDWARD	Morcos Edward				
Contractor Reference				Revision	
Received by ER	MJ	21	TRF	C1	C2
				C3	DD
				MM	YY
				HH	MM
				9	2
				24	12
				75	

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials		COMPRESSIVE STRENGTH OF CONCRETE CUBE REINFORCED CONCRETE C400 .		
Location of Test		RC WING FOOTINGS DOWNSTREAM OF CULVERT 508+524		
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1	28 DAYS		1	28-12-2023
2				
3				
4				
5				

Comments by:

Comments by:

--	--

APPROVAL STATUS

Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	MJ	21	9/12/24	A

* Alignment / Bridges: Culvert Only

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



شركة الشريف للمقاولات المدنية المتكاملة والتوريدات
قطاع البنية التحتية
محطة رأس الحكمة

Technical Report About Compression Strength

Client Name	EG CONTRACK	
Project Name	Express Train Project	
Casting Element	قاعتيين وبنج الداون سترينج (٥٠٨+٥٢٤)	
Casting Date	30/11/2023	
Report Date	28/12/2023	
Cement Content	425 (OPC)	
Strength	400	Kg/cm2

COMPRESSIVE STRENGTH RESULTS OF CUBES 15X15X15 Cm

Set ID	Cast Date	Testing Date	Age (days)	Weight (gm)	Density (gm/cm ³)	Load (KN)	strength (Kg/cm ²)	Average Strength (Kg/cm ²)	Average strength %
1	30/11/2023	28/12/2023	28	8361	2.48	1099	498	485	121
2				8245	2.44	1053	477		
3				8266	2.45	1063	482		

Notes:

- * The required strength to be achieved at the age of 28 days is 400 kg/cm².
- * Samples were taken and processed according to the Egyptian code and technical specifications.
- * The samples were tested according to the Egyptian specification CE 1658/1989.
- * Samples were taken in the presence of the contractor engineer and consultant.

Q.C Manager
Eng.Mohamed Ibrahim
Mohamed Ibrahim

Plate Load Test Results

Layer:	FERMA
Station:	CU (945)
Date:	04-04-23

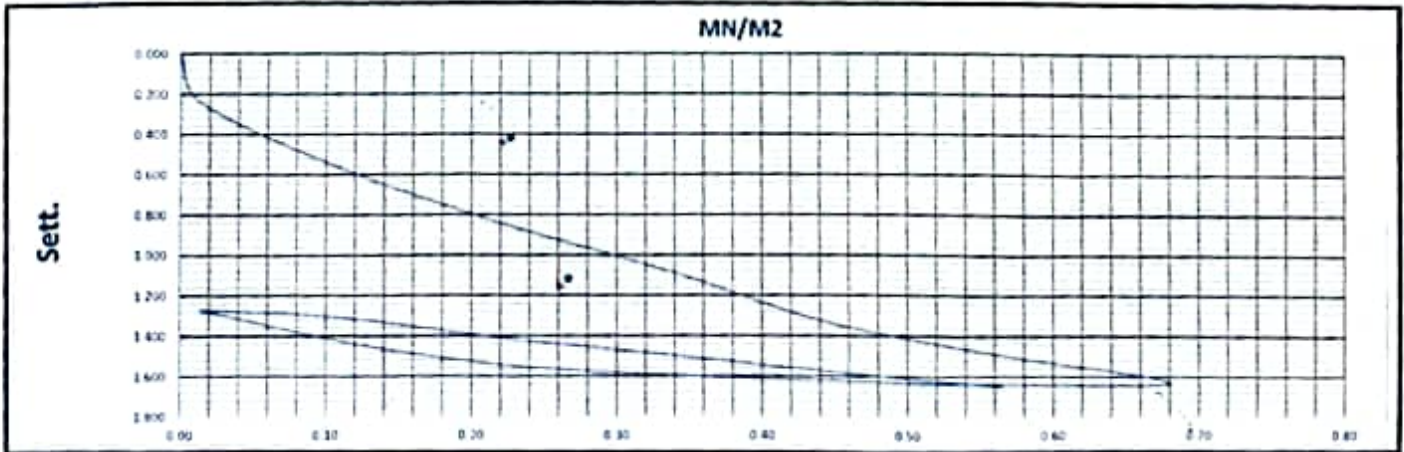
COMPANY	EGY CONTRACT
SAMPLE LOCATION	506+945

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	KN/M2	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	20.00	20.00		0.000	0.000		0.000
1.000	7.1	2.14	0.01	19.59	19.93		0.410	0.070		0.240
2.000	57.0	17.1	0.11	19.25	19.63		0.750	0.370		0.560
3.000	114.0	34.2	0.22	18.98	19.36		1.020	0.640		0.830
4.000	178.2	53.45	0.34	18.72	19.12		1.280	0.880		1.080
5.000	235.2	70.55	0.44	18.45	18.89		1.550	1.110		1.330
6.000	299.3	89.796	0.56	18.28	18.73		1.720	1.270		1.495
7.000	356.3	106.89	0.67	18.13	18.59		1.870	1.410		1.640
8.000	178.2	53.45	0.34	18.16	18.65		1.840	1.350		1.595
9.000	85.5	25.65	0.16	18.27	18.75		1.730	1.250		1.490
9.000	7.1	2.14	0.01	18.49	18.97		1.510	1.030		1.270
10.000	7.1	2.14	0.01	18.49	18.97		1.510	1.030		1.270
11.000	57.0	17.1	0.11	18.44	18.95		1.560	1.050		1.305
12.000	114.0	34.2	0.22	18.34	18.85		1.660	1.150		1.405
13.000	178.2	53.45	0.34	18.25	18.76		1.750	1.240		1.495
14.000	235.2	70.55	0.44	18.16	18.69		1.840	1.310		1.575
15.000	299.3	89.796	0.56	18.09	18.61		1.910	1.390		1.650

		s	AS	Δσ
0.7 σ ₁	0.4707	1.20524	0.40899	0.26897
0.3 σ ₁	0.20173	0.79625		
0.7 σ ₂	0.4707	1.59167	0.27089	0.26897
0.3 σ ₂	0.20173	1.32078		
D (mm)	450			
E _{v1}	221.95			
E _{v2}	335.11			
Area (Sq.m)	0.158963			

E _{v2} /E _{v1}	1.51	FACTOR	1524.39
KS	410013.9		
B.C	268.97	KN/M2	2.74 KG/CM2

LOAD
UN LOAD
RE LOAD



Lab. Specialist

Name :

Sign :

Lab. Engineer

Name :

Sign :

المعمل المركزي رقم (١)

Consulting Engineering Bureau

Name :

Sign :

نيلو انجنيئرنگ بوريو

Plate Load Test Results

Layer:	FERMA
Station:	CU (524)
Date:	08-04-23

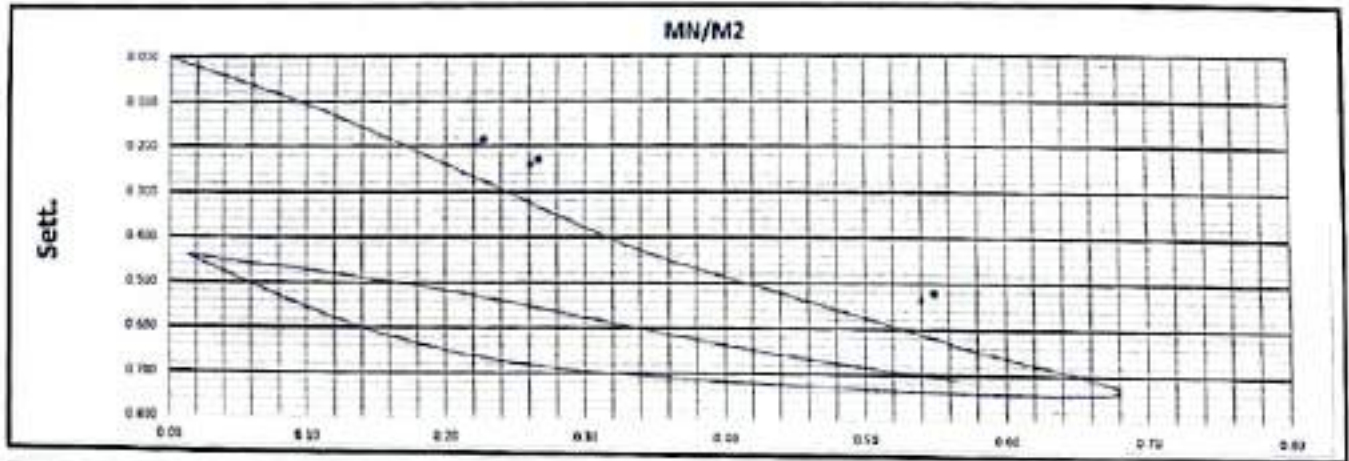
COMPANY	EGY CONTRACT
SAMPLE LOCATION	568+524

Loading	Load	Load	Stress	Dial 1	Dial 2	Dial 3	Sett. 1	Sett. 2	Sett. 3	Avg. Sett.
Stage No.	Bar	KN	SENSEI	mm	mm	mm	mm	mm	mm	mm
0.000	0.0	0.000	0.00	20.00	20.00		0.000	0.000		0.000
1.000	7.1	2.14	0.01	19.99	19.98		0.010	0.020		0.015
2.000	57.0	17.1	0.11	19.92	19.85		0.080	0.150		0.115
0.080	114.0	34.2	0.22	19.80	19.68		0.200	0.320		0.260
4.000	178.2	53.45	0.34	19.65	19.50		0.350	0.500		0.425
5.000	235.2	70.55	0.44	19.60	19.35		0.400	0.650		0.525
6.000	299.3	89.796	0.56	19.51	19.22		0.490	0.780		0.635
7.000	356.3	106.89	0.67	19.42	19.10		0.580	0.900		0.740
8.000	178.2	53.45	0.34	19.46	19.13		0.540	0.870		0.705
9.000	85.5	25.65	0.16	19.54	19.22		0.460	0.780		0.620
9.000	7.1	2.14	0.01	19.72	19.40		0.280	0.600		0.440
10.000	7.1	2.14	0.01	19.72	19.40		0.280	0.600		0.440
11.000	57.0	17.1	0.11	19.70	19.35		0.300	0.650		0.475
12.000	114.0	34.2	0.22	19.65	19.30		0.350	0.700		0.525
13.000	178.2	53.45	0.34	19.58	19.22		0.420	0.780		0.600
14.000	235.2	70.55	0.44	19.54	19.14		0.460	0.860		0.660
15.000	299.3	89.796	0.56	19.50	19.08		0.500	0.920		0.710

		s	AS	Ad
0.7 σ_1	0.4707	0.42518	0.1833	0.26897
0.3 σ_1	0.28173	0.24183		
0.7 σ_2	0.4707	0.47111	0.18833	0.26897
0.3 σ_2	0.28173	0.49078		
D (mm)	450			
E_{v1}	495.23			
E_{v2}	503.39			
Area (Squad)	0.158963			

E_{v2}/E_{v1}	1.02	FACTOR	2378.38
KS	908478.4		
B.C	208.97	KN/42	2.74 KG/CM2

LOAD
UN LOAD
RE LOAD



Lab. Specialist
Name :
Sign :

Lab. Engineer
Name :
Sign :
المعمل المركزي رقم (١)

Nile Engineering & Consulting Bureau
Name :
Sign :
مكتب الهندسة الاستشارية والنيل

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB																	
Issued by Contractor	Name	Sign	Date	Time																	
	MORCOS EDWARD	Morcos Edward																			
Contractor Reference					Revision																
Received by ER	A.2	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DO</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>11</td> <td>5</td> <td>24</td> <td>13</td> <td>33</td> </tr> </table>	C1	C2	C3	DO	MM	YY	HH	MM				11	5	24	13	33		
C1	C2	C3	DO	MM	YY	HH	MM														
			11	5	24	13	33														

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	FERMA PLATE LOAD TEST			
Location of Test	REPLACEMENT UNDER CULVERT ST 506+945			
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1		PL LD TEST	1	4-4-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A.2		14/5/24	A

* Alignment / Bridges: Culvert Only

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

SUBMISSION of TEST RESULTS



Location Name		Contractor Company		Designer Company																	
FOKA		EG CONTRACT		NECB																	
Issued by Contractor	Name	Sign	Date	Time																	
	MORCOS EDWARD	Morcos Edward																			
Contractor Reference					Revision																
Received by ER	A-2	TRF	<table border="1"> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>DD</td> <td>MM</td> <td>YY</td> <td>HH</td> <td>MM</td> </tr> <tr> <td></td> <td></td> <td></td> <td>14</td> <td>5</td> <td>24</td> <td>13</td> <td>34</td> </tr> </table>	C1	C2	C3	DD	MM	YY	HH	MM				14	5	24	13	34		
C1	C2	C3	DD	MM	YY	HH	MM														
			14	5	24	13	34														

NB: Package 1 Only (Package 2 via Aconex)

THE FOLLOWING TEST RESULTS ARE ATTACHED FOR REVIEW

Description of Test Materials	FERMA PLATE LOAD TEST			
Location of Test	REPLACEMENT UNDER CULVERT ST 508+524			
Item	Specification	Test Requirement	Test Result Attachment	Remarks
1		PL LD TEST	1	8-4-2023
2				
3				
4				
5				

Comments by:	Comments by:

APPROVAL STATUS				
Organisation	Name	Sign	Date	A-AWC-R
Contractor	MORCOS EDWARD	Morcos Edward		A
Designer				A
GARB *				
Employers Representative	A-2		14/5/24	A

* Alignment / Bridges: Culvert Only

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

Electrical Express Train (High Speed-Rail) Project

قوائم كميات مستلزمات جارى ١

رقم البند		البند	وحدة	طول	عرض	ارتفاع	إضافة	خصم	الإجمالي	ملاحظات
		مشروع								تقديم أعمال البناء عند (٢) بربيع خرساني أسفل مسان القطار الكهربائي السريع (العين السخنة - العاصمة الإدارية - العاين - مطروح) عند محطتي (٥٠١+٩٤٥) + (٥٠٨+٥٢٤) بالأمر المباشر.
٢-٢		بالقر المكعب توريد وصب خرسانة مسلحة لزوم الاساسات حسب الرسومات التنفيذية والخرسانة ذات محتوى اسمنتي لا يقل عن ٤٥٠ كجم / م ^٣ اسمنت بورتلاندى عادى واستخدام اضافات خاصة (CORROSION INHIBITOR) وادفاعة السليكا فوم مع الدمك الميكانيكي جيدا ونسوية السطح العلوى اللازمة للحصول على رتبة لا تقل عن ٤٠٠ كجم / سم ^٢ (على ان يحقق الرمل والركم والخرسانة الناتجة حدود المواصفات القياسية المصرية والكود المعمرى) واستخدام مواد الإضافات المعتمدة للحصول على (DUARABILITY) لا تقل عن ١٢٠ سنة للمنتصر واستخدام شهادات معتمدة خاصة للحصول على الفنى لا تشمل حديد التسليح والفئة تشمل عمل الشدات و الفرم ومعالجة الخرسانة بعد الصب طبقا للشروط والمواصفات الفنية والرسومات وحسب احوال الصناعة وتعليمات المهندس المشرف	م ^٣	1061.398			1,061.40			
		الإجمالي					1,061.40	0.00	1,061.40	م ^٣

الهيئة العامة للطرق والكباري

م/ محمد حاتم

التوقيع/

الاستشاري العام سينسترا

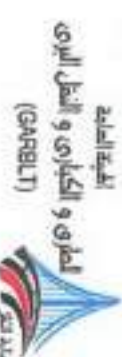
م/ محمود أبو السعود

التوقيع/

شركة/ ايحي كونترك

م/ عوفى ادوارد

التوقيع/ سرفه



Electrical Express Train (High Speed-Rail) Project

قوائم كميات مستخلص جدول ١

تطبيق أعمال إنشاء عدد (٢) بريد خرسانى أسفل مسار القطار الكهربائى السريع (الفين المسجلة - العاصمة الإدارية - العلمين - مطروح) عند محطتي (٥٠٦١٤٥) + (٥٠٨٤٥٢٤) بالأمر المباشر.									
ملاحظات	الاجمالي	خصم	إضافة	ارتفاع	عرض	طول	وحدة	البيد	رقم البيد
			179.77			179.769	طن	بالطن توريد وتركيب وتشكيل حديد تسليح بالاقطار المطلوبة والجهود المطلوب والفئة وسلك الرباط والكراسى والوصلات والاكسسوارات وبنوكات عمل القماش الخرسانى وتفاصيل الحائط على المسافات بين الاسياخ وذلك طبقا للرسومات والمواصفات وتعليمات الجهة المصنعة لحديد التسليح على ان يقوم المقاول بتقديم رسومات الورشة لجهاز الاشراف من الاستشارى والجهة المالكة للاعتداد قبل التركيب.	٣-٢
طن	179.77	0.00	179.77					الاجمالي	

الهيئة العامة للطرق والكبارى

م/محمد حاتم

التوقيع /

الاستشارى العام سينسيرا

م/محمود ابوالسود

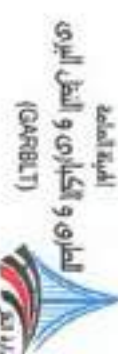
التوقيع /

شركة ايجي كونتراتك

م/مرقص ادوارد

التوقيع /





Electrical Express Train (High Speed-Rail) Project

قوائم كميات مستخلص جلد ١

تنفيذ اعمال انشاء عدد (٢) بربيع خرساني أسفل مسار القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) عند محطتي (٥٠٦+٩٤٥) + (٥٠٨+٥٢٤) بالامر المباشر.							مشروع	
رقم البند	البند	وحدة	طول	عرض	ارتفاع	اضافة	خصم	الاجمالي
١-٣	بالمتر المسطح توريد وعمل عزل للرطوبة الاسطح الخرسانية الملازمة للارضية عبارة عن ثلاثة لوجه من البتومين البارد وذلك للاسطح الخرسانية الملازمة للارضية على ان يتم عمل العزل لتعليقات الحجة المصنعة وطبعا للرسومات والمواصفات وتعليقات الحجة المصنعة المعزل.	م ^٢	1442.009			1,442.01		
							0.00	1,442.01
								1,442.01
								٢م

الهيئة العامة للطرق والكباري

م/محمد حاتم

التوقيع /

الاستشاري العام سينترا

م/محمود ابو السعود

التوقيع /

شركة ايجي كونترات

م/محمود الجولان

التوقيع /





الهيئة العامة
للمرور والكباري و النقل البري
(GARBLT)



Electrical Express Train (High Speed-Rail) Project

قوائم كميات مستلزمات جاري ١

تنفيذ اعمال إنشاء عند (٢) بيريج خرساني أسفل مسار القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) عند محطتي (٥٠٦٩٤٥) ، (٥٠٨٠٢٤) بالامر المباشر								مشروع	
ملاحظات	الاجمالي	خصم	اضافة	ارتفاع	عرض	طول	وحدة	البند	رقم البند
			790.43			790.426	م.ط	قواصل مرزنة من مادة في في سي لمنع التسرب (سويتنج بار) توريد وتركيب قواصل مرزنة (سويتنج بار) مقطع ٢ سم * ١ سم والسعر يشمل التركيب وعمل الوصلات وجميع الاكسسوارات أو ما يعاقله وذلك طبقا للرسومات ومستندات التعاقد وتعليمات الشركة المنتجة .	٣-٣
م.ط	790.43	0.00	790.43	الاجمالي					

الهيئة العامة للطرق والكباري

م/محمد حاتم

التوقيع/

الاستشاري العام سينسيرا

م/محمود ابوالسعود

التوقيع/

شركة / ايحي كوتراك

م/موفق احمد

التوقيع/

شركة ايجي كونترك
لإنشاء الطرق



محضر استلام موقع

العملية:- تنفيذ عدد (٢) بريك خرساني اسفل مسار القطار الكهربائي السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح) عند محطتي (٥٠٦,٩٤٥ و ٥٠٨,٥٢٤) بالامر المباشر .

المالك:- الهيئة العامة للطرق والكباري (المنطقة الخامسة-غرب الدلتا)

تنفيذ شركة:- ايجي كونتراك "زكريا جابر قلدس رشيد"

انه في يوم الاحد الموافق ٢٧ / ٠٦ / ٢٠٢٤ وبناء على امر التشغيل الصادر للشركة بعقد رقم (١٧٢٣ / ٢٠٢٣ / ٢٠٢٤) اجتمع كلا من :-

- | | |
|---------------------------------|---|
| ١-المهندس / محمد حسني فياض | مدير عام المشروعات - الهيئة العامة للطرق والكباري |
| ٢-المهندس / محمد حاتم عبدالعليم | مدير المشروع - الهيئة العامة للطرق والكباري |
| ٣-المهندس / مرقص ادوارد | مدير المشروع - شركة ايجي كونتراك |

وقد قام الطرف الاول والثاني بتسليم الموقع للعملية المذكورة عاليه خاليا من أي عوائق ظاهرية للطرف الثالث وتم التنبيه عليه بالالتزام بجميع بنود التعاقد ونهو الاعمال خلال مدة التعاقد.

وعلى اعتبار ان تاريخ استلام الموقع هو ٢٧/٠٦/٢٠٢٤

وقد تحرر هذا محضرا منا بذلك وتسلم كل طرف صورة للعمل بها .
التوقيعات :-

- ١- محمد
- ٢- محمد
- ٣- مرقص ادوارد

رئيس الادارة المركزية
المنطقة الخامسة - غرب الدلتا
(الاسكندرية - مرسى مطروح)
عميد مهندس /
٩٤٥
"هاني محمد محمود طه"



الكمية	الوحدة	الاسم	الكمية	الوحدة	الاسم
١ - اعمال الجسات والحفر والردم					
١٠٠	م	بالمتر الجدران تفتيح جسات في جميع انواع التربة عدا الصخرية وحلى أن يتم تعديده (unconfined Q) لكل طبقة طبقا للقرير التربة والبناء يشمل نقل مخلفات الجسات وجميع مستقراتها إلى الموقع منها قبل الحفر المخطط بالموقع ورفع جميع الكتلات اللازمة من مكان نقلها إلى الموقع ثم نقلها خارج الموقع بعد الانتهاء من كافة الاعمال واستخراج التقارير واضعها من جهة الاشراف وكل ما يلزم لظهور العمل كاملا طبقا لأصول الصناعة والشروط والمواصفات وتعليمات المهندس المشرف (مساحة متر طولي)	١٠٠	م	١٠٠
٧٥٠	م	بالمتر الملبأ أعمال الحفر في جميع انواع التربة ماعدا الصخرية لزوم اعمال البرايخ طبقا للملصوب الموضحة بالرسومات والقلعة تشمل اعمال التثبيت والرش بكمية مع ذلك للمكان المنقورة للوصول إلى نسبة التماس المطلوبة مع عمل التثبيت المعملية اللازمة (مبعدة وخمسون متر مكعب)	٧٥٠	م	٨٠
٢ - اعمال الخرسانات					
٢٢٧,٥٠	م	بالمتر المكعب توريد وصب خرقة عادية بسمك المطلوب أسفل البريخ بايجه ٢٠٠ سم / سم ٢ ومحتوى اسمنتى لا يقل عن ٣٠٠ كجم / م ^٣ خرقة عادية ولقده تشمل الخرقة الجاهزة والشحلات والنقل والتشطيب والصب والتثبيت والمعالجة والإختبارات طبقا للرسومات والمواصفات والسعر يشمل رفع جميع الكتلات إسفلت و سحبة و ثلاثون ونصف متر مكعب)	٢٢٧,٥٠	م	٢,١٠٠
١,٢٢١	م	بالمتر المكعب توريد وصب خرقة مسلحة لزوم الاسفلت حسب الرسومات التنفيذية والخرقة ذات محتوى اسمنتى لا يقل عن ١٥٠ كجم / م ^٣ اسمنت بورتلاندى عالى والاسفلت طبقات خاصة (CORROSION INHIBITOR) واضافة شليك الحوم مع ذلك المصلح جديا وضوية السطح الخفى للزامة للحصول على رابية لا تقل عن ٤٠٠ كجم / سم ٢ (على أن يحقق التماس والارتكاز والخرقة المنتجة مدود المواصفات القياسية المصرية وقود الصخرى) واستخدام مواد الإضافات المعتمدة للحصول على (DURABILITY) ٧ تقل عن ١٢٠ سنة للتصحر واستخدام كمادات محلية خاصة للحصول على أقصى جودة سطح القبة ٧ تشمل حديد التسليح والقلة تشمل عمل الشحلات والردم ومعالجة الخرقة بعد الصب طبقا للشروط والمواصفات الفنية والرسومات وحسب أصول الصناعة وتعليمات المهندس المشرف (الف و ثلاثون وواحد وثلاثون متر مكعب)	١,٢٢١	م	١,٦٠٠
٢٢٦	طن	بالمتر توريد وتركيب وتشكين حديد تسليح بالقطر المطلوبة وبالأجهاد المطلوب والقلة وسلك الربط والكمرسى والوصلات والاسموات ويطوأت عمل القاء الخرسانى وتطبات المقطع على المسافات بين الأسياخ وذلك طبقا للرسومات والمواصفات وتعليمات الجهة المصلحة لتجهيز حديد التسليح على أن يقوم المقاول بتقسيم ومهمات الورشة لجهات الاشراف من الاستشارى والجهة المصلحة للاضداد قبل الترتيب إسفلت و ستة و عشرين طن)	٢٢٦	طن	١٤,٢٠٠
٣ - اعمال العزل					
٢,١٥٠	م	بالمتر المسطح توريد وعمل عزل كرمطوبه للمساحات الخرسانية الملامسة للتربة عبارة عن ثلاثة اوجه من البوتمين الجاهز وذلك للمساح الخرسانية الملامسة للتربة على أن يتم عمل العزل لتعليمات الجهة المعتمدة وطبقا للرسومات والمواصفات وتعليمات الجهة المصلحة لتجهيز (الفان متر مسطح)	٢,١٥٠	م	٩٠
٢,٩٥٠	م	بالمتر مربع توريد وعمل دهانات مقاوم للتآكل أساس أكليك Anticarbonation ومواد مقاومة للأخضر والخرامل الجوية لعمارة الاجزاء الماثولة من جسم البريخ على ألا يقل عن عدد ٢ وجه بالإضافة إلى وجه تغطىي وعمل كل ما يلزم لظهور العمل نهوا كاملا والتبند شامل مما يضمنه طبقا لأصول الصناعة والرسومات والمواصفات وتعليمات المهندس المشرف على أن يتم اعتماد القامات وعمل الاختبارات اللازمة قبل التنفيذ (الفان و تسعة و خمسون متر مربع)	٢,٩٥٠	م	١٠٥
١,٢٢٠	م	الواصل مرنة من مادة بي اى سي لمنع التسرب (سولانج بار) توريد وترتيب الواصل مرنة (سولانج بار) مقطع اسم = اسم والسعر يشمل التركيب وعمل الوصلات وجميع الإكسسوارات أو ما يماثل ذلك طبقا للرسومات ومستندات التماس وتعليمات الشركة المنتجة (الف و سبعة وخمسون متر طولي)	١,٢٢٠	م	٢٢٠
١,١٤٥	م	بالمتر الجري روية وتركيب شمع geotextile 400 micro أسفل الخرقة العادية طبقا للمواصفات وتعليمات الاستشارى (الف و ستة و خمسة و عشرين متر مربع)	١,١٤٥	م	١٤٠
الإجمالي (تسعة عشر مليوناً وتسعة و اثنان و اربعون ألفاً وخمسمائة جنيه فقط لا غير)					
١٩,٩٤٢,٥٠٠					