



**SYSTRA**

**EL-RAEID**  
Engineering Consulting Services Co.

جامعة المنيا  
جامعة المنيا  
جامعة المنيا

الإجمالي	سعر الكنه	الكمية	الوحدة	بيان الأصول	رقم ديدن
				باب الثاني أعمال الخرسانة	2
376331.25	1,875.00	206.710	م	الخرسانة العائمة توريه وعصب فرسانه علبه يشتمل المطلوب بالكته تشمل الخرسانة الجاهزة وشدهات وانقل وانقل وانقل والمصب وانشطه والمعلجه والاندكتورات طبله للرسومات والمواصفات	2-1
				سلال ابرو راخ بارج ٢٤ مترو بابل	2-2
				مانع مدخل وخارج البرج	2-3
				مانع الماء	2-4
				الخرسانة المصمتة يتشارك المكتب توريه وعصب فرسانه مسلمه لزوم البرجه وخداته والاسفلت توريه مع تصميم ثلاثة خرسانه على ان يكون اللونه والشكه منيكابي و كل الاختصاره العائمه المكتبه قويه الخرسانه المصمتة لسلمه عن ١٠٠ كجم /م٢ و معدني اسلمه لا يزيد عن ١٠٠ كجم /م٢ و اللونه تشمل عمل تشكيل و تلمي و معلجه الخرسانه بعد تعبثه طبله للرسومات والمواصفات و عصب اسفلت المنشآه و عصب المنشآه و عصب المنشآه المدرفه و اللنة لا تشمل هذه المصمت	2-5
✓ 3930390.00	4,500.000	873.420	م	اشتراك ماء (corrosion INHIBITOR) ٣٠ لتر/م٢ (DUARABILITY) ١٢٠ منه ادملي منز الادم المكتب مانع مدخل وخارج البرج	3
				مانع الماء	3-1
✓ 4097430.00	26,500.000	154.620	طن	حديد الشائع من النوع (FY = 500 Mpa)DWR توريه وعصبه، حدود لصالح بافالن اعدتوريه وعصبه المطلوب و كلها تشمل سلك البرجه وباريس ورسومات واموالات وانشطه واندكتورات طبله للرسومات الخرساني وتكلات الحالة طي المسالات بين الاسطح ونكله طبله للرسومات واموالات وانشطه واندكتورات طبله للرسومات المكاره يشتمل رسومات طبله لجهه المنشآه وانشطه المنشآه لا اعتماد على التراكيز	3-2
				باب الثالث :أعمال الوقايه من الحراره وال حراريه	3
✓ 139,088.360	76.00	1,836.110	م	عزل لحراريه لاصطف الخرسانه المائمه للزره توريه وعفن ثلاثة اوجه من البوليورين البرجه و تلك لاصطف الخرسانه الداخله على ان يتم عمل طبله لاصطف الخرسانه وجدهه المصمته و عصبا	3-1
✓ 1,207.800	33.00	36.600	م	جيوكستيل GM ٦٠٠ يشتمل لاصطف توريه وعصب طبله من الجيو كستيل ثلاثة ٦٠٠ كجم /م٢ ذات عرض ٠.٥ سم ويشتمل لاصطف والانفصال والزره على ان يتم العمل عزل الرطوريه لاصطف اللتد	3-2
✓ 44,138.000	290.00	152.200	متر	توريه وعصب عزل الاوم فرامل المنهه وعيه يشتمل لاصطف بالماري بتجهيز طيوره على ان يتم العمل طبله لاصطف الخرسانه وجدهه المصمته واموالات وانشطه وجدهه المصمته للعزل	3-3
				اوائل مره من ماده بي في مي لمنع لتصرب (بورتر ستوب - موسيلاج بار بوليل)	3-4
				توريه وعصب قابضه من ماده بي في مي بارتفاع ٣٢ سم ومسكه لا يزيد عن ٧.٨مم وعصب يشتمل التركيب واعمل الرسومات وجمع الانصهارات او ما يمثله ونكل طبله للرسومات واموالات تشكيل يشتمل طبله المنشآه	3-5
✓ 251015.4	690.000	364.660	متر	المراصل الاشتراكية (بورتر ستوب - موسيلاج بار)	4-1
✓ 35668.8	480.000	73.060	متر	المراصل الشمله	4-2
اجمالى 8,875,269.41					

رئيس الاداره العاميه	م/نصر محمد نصر طيرخ	م/محمد عاشور	م/احمد عبد الوهاب الحمد
التوقيع /	التوقيع /	التوقيع /	التوقيع /



**SYSTRA**



رئيس الادارة المركزية	مدير المدرسة	ملايين الالاف	استاذى المعلم (استاذ)	المعلم
م/نصر محمد نصر طبیع	م/هشيرة السيد عبد الله	م/محمد فتحي	م/محمد عباس وحیدر	م/محدث عبد العليم عبد
التوقع /	التوقع /	التوقع /	التوقع /	التوقع /
جامعة الأزهر مصر				



**SYSTRA**

الإسكندرية للاستشارات الهندسية  
ELEXANDRIA CONSULTING ENGINEERS

جامعة الإسكندرية  
جامعة الإسكندرية للمهندسين الميكانيكيين  
جامعة الإسكندرية للمهندسين الميكانيكيين

الثانية احصل

مطابقة ثانية - اعمال الم bers الزرائب والاصحاء معاييره لمشروع الطريق الداخلي لمدينة اسكندرية (البرلمان) مطابق  
البرلمان (البرلمان) مطابق على مدار تاريخ (٢٠١٢/١٢/٢١) عدد (٦١٤٣٢٢) (٦١٤٣٢٣) (٦١٤٣٢٤) (٦١٤٣٢٥) (٦١٤٣٢٦) (٦١٤٣٢٧) (٦١٤٣٢٨) (٦١٤٣٢٩) (٦١٤٣٢١٠) (٦١٤٣٢١١) (٦١٤٣٢١٢)

رقم البند	بيان الأقصى	الوحدة	الكمية	سعر الفتحة	الاجمالى
2	باب الثاني احصل المعملة				
٢.١	الخرسته العائنة توريه وصب كرسالة عاليه يمسك المطلوب والله تشمل الخرسنة الجاهزة والشده والفقاعه والاصب وانشطه والمعلجه والاندیمهات طبقاً للمواصفات والمواصفات.	استل		٢٠٠.٧١٠	٣٧٦٣٣١.٢٥
٢.٢	سلال البراغي بروبا ٤٠ درجة دستان على مدخل وخارج البراغي دلي فارغ				
٢.٣	الخرسنة المسالحة يمثل المعلم توريه وصب كرسالة مستله اليوم ثقبه والحواف والسطح البراغي مع تسميم الكثافة خرسنة على ان تكون الكثافة و الدك بريليان و ظاهر اكل المائية المسالحة الملاصق لقويسه للخرسنة المسالحة من ١٤٠ درجة و محتوى استلت لا يزيد عن ١٠% نجم / ٦ و الكثافة تتحمل على لذات في الفرم و معدنه الخرسنة بد اقصي طبقاً للشروط والمواصفات و دروسفات و حسب اصرع المعايير و تقييمات المهلس المطر و الله لا تعلم هذه المعلوم				
٢.٤	اقناعه ضد البكتيريا (DUARABILITY) ٢٧ لـ ٣ (corrosion INHIBITOR) ٣٠ لـ ٣				
٢.٥	دوابي درج البكتيريا العائنة مانعه مدخل وخارج البراغي مانعه الكلمات مانعه ضد محننه				
٢.٦	جديد التصالح من النوع (FY = 500 Mpa)DWR				
٢.٧	توريه وصلب، جديد تصالح بالقابل الميكانيكي و الوجه المطلوب و كلها تتصل سلك البلاطة والفاصل والوصلات والاسسواره وبارانته حتى القائم الذريسي و ينعكس الحال على المسالات بين الاسطح وذلك طبقاً للشروط والمواصفات و تقييمات الجوه المعملة لعنصر التصالح على ان يكون المدار ينبع و سعوات اوركه تجهيز الالترات من الاستثنائي و الجودة الملاحة للاعتماد قبل التركيب.	طن	١٥٤.٦٢٠	٢٦,٥٠٠,٠٠	٤٠٩٤٤٣٠,٣٠
٣	باب الثالث باحصل ديكابه من الحرارة والارطوية				
٣.١	عزل الارطوية للكطب الخرسانية الملاصقة للزلازل توريه وعده للكتاب ارجون من البيتون البراز و تلك للكطب الخرسانية الملاصقة للزلازل على ان يتم عن عزل مطبق انتدبات الجوه المعملة وباردا				
٣.٢	جيوكستال GM ٢٠٠ بالنثر المصلح توريه وتركيب طبقاً من الجيووكستال لكتلة ٢٠٠ كجم ١٠ سم و ١٠ سم يمثل المدخل والفتحه والفراغ على ان يتم العمل عليه تقييمات الجوه المعملة وطبقاً لشروط والمواصفات و تقييمات الجوه المعملة	م	١,٨٣٠,٣١٠	٧٦,٠٠	١٣٩,٠٨٨,٣٦
٣.٣	عزل الارطوية لائل اصل اللحام توريه وتركيب عازل الزم فوامل اللحام وفون يمثل لفاف الملاصق بالتجاري على ان يتم العمل طبقاً لعمليات الجوه المعملة لعزل والوصلات وذخارات الجوه المعملة لعزل	م	١٥٢.٢٦٠	٣٣,٠٠	١,٢٠٧,٨٠
٣.٤	توسيع مربعة من مادة بي في بي لمنع التسرع (دوزر ستروب - سويبينج بار بور)				
٣.٥	توريه وتركيب قابل مربعة من مادة بي في بي لمنع التسرع (دوزر ستروب - سويبينج بار بور) او ايسنرات آرم ما يملأه وذلك طبقاً لشروط والمواصفات و تقييمات لعنصر وتحفظ الشركه المنشئه.				
٤.١	المواد الالكترونية (دوزر ستروب - سويبينج بار)				
٤.٢	المواد الالكترونية				
	اجمالى				٨,٨٧٥,٢٦٩,٦١
	بيان الاشراف العربي	بيان المشروع	بيان التفريغ	بيان التفريغ	بيان التفريغ
	م/صر محمد نصر طهريخ	م/صر محمد نصر طهريخ	م/صر محمد نصر طهريخ	م/صر محمد نصر طهريخ	م/صر محمد نصر طهريخ
	التاريخ /	التاريخ /	التاريخ /	التاريخ /	التاريخ /

بيان الاشراف العربي		بيان المشروع	بيان التفريغ	بيان التفريغ	بيان التفريغ
م/صر محمد نصر طهريخ		م/صر محمد نصر طهريخ			
التاريخ /		التاريخ /	التاريخ /	التاريخ /	التاريخ /



**SYSTRA**  
SOCIÉTÉ FRANÇAISE D'ÉTUDES ET DE CONSEILS



رقم الفاتورة	بيان الأخصائص	الوحدة	الكمية	سعر الكيلو	الاجمالي
2	أهاب التقى أتم الضرر				
2-1	الضرر المائي تزييد وعيادة عادي بالمساء المطلوب، والله تعالى أنتي المفيدة والذات، والله تعالى والحمد والامد، والتطهير بالمعادلة والاشتراك بطبق الرسمية والمواصلات.	استل		1,875.00	376331.25
2-1.1	استل ابراج بلجيك ٢٠ مينا باستل				
2-1.2	فلوك مثلك وفلوك البرين فلوك الفارمات				
2-2	الخرماته المسلاحة يختفي المكتب تزييد وعيادة عادي لازم فليخ وفليخ والاستف لفريخ مع تسميم الثالثة فرسانه على ان يكون الفليخ وفليخ يعذبها و على الان الطلاق العلاج المكتب نفس المفيدة المسلاحة عن ٤٠٠ ملم/مم و معدني استل لفريخ عن ٤٠٠ ملم/مم و الله تقبل عمل فليخات و فليخ و معاشرة المفيدة بد اسب طبا الفليخ و المواصلات و طبعات الجبهة المصنعة لفليخ لفليخ على ان واقع فليخ و الله لا تقبل منه الفليخ				
3	أهاب التقى أتم الضرر المائي فلوك مثلك وفلوك البرين فلوك الفارمات فلوك ٢٠ مينا طبقة التسلخ من النوع ( FY = 500 Mpa)DWR أهاب التقى أتم الضرر المائي من الضرر والضرر فلوك للotropic للاضططاح الخرسانية العلاجية للتربة تزييد وعيادة اوجه من جيوبون ابريل، وفليخ اضططاح خرسانية المفيدة لفريخ على ان يتم عمل فليخ تفاصي وفليخ المفيدة الرسوسات والمواصلات وطبقات الجبهة المصنعة تفاول ينقدر رسوبات ابريل ابريل الاشتراف من الاشتراك والدوحة المكملة لاختمار اقل التراكيز			4,500.000	3930390.00
3-1	فليخ تفاصي				
3-2	فليخ للotropic للاضططاح				
3-3	فليخ للotropic لفواصل التسد				
3-4	فواصل مفربه من مادة فين فين لفليخ المفرب (فوك مفربه - سورياتج بار دوكيل) تزييد وتركيب فواصل مفربه من الجيب تستل كلية ٤٠٠ كجم ٤٠ نات عرض ٤٠ سم وفليخ يشمل الفليخ والتقطيع والفراء التي ان يتم العدن طبقات التفاصي وفليخ المفيدة وفليخ المفيدة وطبقات الجبهة المصنعة.				
3-5	فواصل الاشتراك (فوك مفربه، سورياتج بار)				
3-6	فواصل التسد				
	اجمالى				8,875,269.61

رئيس الادارة الفنية	مهندس البنت	الاستاذ الدكتور عبد الرحيم العبد	د.م/محمد عاصم العبد
م/نصر محمد نصر طلبيخ	م/محمد عاصم العبد	التاريخ /	التاريخ /
م/استrophysics	م/استrophysics	التاريخ /	التاريخ /
التاريخ /	التاريخ /	التاريخ /	التاريخ /

**مدير المكتب**  
**م/استrophysics**  
**م/استrophysics**  
**نصر محمد نصر طلبيخ**

**د.م/محمد عاصم العبد**  
**استاذ دكتور عبد الرحيم العبد**  
**جامعة عين شمس**  
**Chairman of Engineering Services**



SYSTRA



The image shows handwritten signatures and official seals from the project documents. The signatures include 'مختار العشماوي' (Mختار العشماوي), 'مختار العشماوي' (Mختار العشماوي), 'مختار العشماوي' (Mختار العشماوي), and 'مختار العشماوي' (Mختار العشماوي). The official seals are circular and feature Arabic text and the date '٢٠١٣-١٢-٢٧'.



**SYSTRA**

**EI-RAEID**  
الرئيسي للدراسات والتخطيط  
للمشروعات والدراسات

مكتبة الفنون  
المتحدة للمعرفة والتكنولوجيا  
الجامعة المفتوحة

الملف السادس

بيانية قافية أعمال البصر التربى والأعمال الصناعية لمتدرج المثار (البورسون السريع (العن المستخدمة لاداره المثلث مطروح)  
تاريخ الارسال: سيل مفتر المثار (البورسون السريع المعاينة) (٤٩٤+٥٧) (٢٠٢٢/٢/٢٣٤٢) عدد البريد: ٩٠٢٩/١١٦

رقم اللد	بيان الأفضل	الوحدة	الكمية	سعر اللدة	الاجمالي
2	باب الثاني أعمال الفرسانة				
2-1	الفرسانة العالية تزيير وصب درسته عاليه بالمسك المطري، ولذلك تتصل الكرمدة دوازه والشتات والخلال والتعب والتشطيب والمدخلة والإكتبات فيها الرسمات والوصلات.	متر			
2-2	سلسلة الفرج بواجهه ٢٠ ممبا باسكن عازف مثلث وملحق فرج	متر	٢٠٠,٧١٠	١,٨٧٥,٠٠	٣٧٦,٣٣١,٢٥
2-3	عازف الملايات				
2-4	الفرسانة المسلحه يمثل المكتب تزويه وصب طرفيه سلسله لزوم الملايه والموقد والابسط البرج مع تصميم الملايات الفرسانه على ان يكون الملايت وشك متباين على الاختلاف المأمور المكتب نفس للفرسانه المسلحه عن ٤٠ كجم / متر٢ ومحدو اسئلته لا يزيد عن ٤٠ كجم / متر٢ ولذلك تتم الاعمال ونظام ونظام الملايات يتضمن طبقه للمروده والوصلات كلية وكرمودات وحسب اصول الملايات ونظمت الملاين الصرف والفتح لا تتصل هذه الملايات				
3	باب الثالث راحصل قوائيه من الحرارة والرطوبة				
3-1	عزل للرطوبة للسطح الفرسانه الملايشه الملايشه تزيير ودهان للاجهه من البورسون البريد ولذلك تطبقه ذاتي سلك الريله والفاكس والوصلات والاسوارات وبرادات عن العلام الكربي وذلتات العلام على الملايات ونظام طبقه للرسومات والوصلات ونظامات وجهاه الملايات لغرض العلام على ان يقام الملايات بالتفاهم رسومات اولى، اجهه الملايات من الاستثناء والجهة الملايات الملايات في تزويه.	متر	٨٧٣,٤٢٠	٤,٩٠٠,٩٩٩	٣٩٣,٣٩٠,٠٠
3-2	عازف الملايات عازف شده معلنه				
3-3	عازف النساج من النوع ( FV = 500 Mpa)DWIR تزيير وتركيب عازف سلسله الملايشه وطبقه الملايشه ولذلك تشمل سلك الريله والفاكس والوصلات والاسوارات وبرادات عن العلام الكربي وذلتات العلام على الملايات ونظام طبقه للرسومات والوصلات ونظامات وجهاه الملايات لغرض العلام على ان يقام الملايات بالتفاهم رسومات اولى، اجهه الملايات من الاستثناء والجهة الملايات الملايات في تزويه.	متر	١٥٤,٦٢٠	٢٦,٥٠٠,٠٢٠	٤٠٩,٧٤٣,٠٠
3-4	الفرسانه عازف سلسله الملايشه				
3-5	عازف الرطوبة للوصلات الملايشه الملايشه تزيير وتركيب عازف لزوم قرائص اللد وابنك بسلسله الملايشه وطبقه الملايشه على ان يتم عمل عازف طبقه الملايشه وجهاه الملايشه والوصلات ونظامات وجهاه الملايات الملايات العلام	متر	١,٨٣٦,١١٠	٧٦,٠٩	١٣٩,٣٨٨,٣٦٠
3-6	عازف الملايات عازف الملايات عازف الرطوبة للوصلات الملايشه				
3-7	قرائص عازف عازف من مادة بى فى من لمنع النسب (زورن متفا - موبلانج جار بورل) تزيير وتركيب عازف عازف من مادة بى فى من لمنع النسب (زورن متفا - موبلانج جار بورل) الاسسارات او ما يمثله وذلك طبقه للرسومات ووصلات الملايات ونظامات وجهاه الملايات الملايات	متر			
3-8	الوصلات الملايشه (زورن متفا - موبلانج جار بورل)				
3-9	قرائص اللد				
3-10	اجمالى				٨,٩٧٥,٢٦٩,٦١

رئيس الاداره المسئول	م/نصر محمد نصر طبیع	التوقيع	٢٠٢٣/١٢/٢٣	م/محمد عاصم عصمو	م/محمد عبد الله العبد
التوقيع	التوقيع	التوقيع	التوقيع	التوقيع	التوقيع
<b>مدل الامشروع</b> 					



## محضر استلام موقع

**بشأن الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع  
(العين السخنة - العاصمة - الادارية - العلمين - مطروح)**

**تنفيذ شركة / محمود جمیل قطامش**

وقد اجتمعت اللجنة في يوم الخميس الموافق 13/9/2022 بحضور كلا من :

- |                           |   |
|---------------------------|---|
| 1-مهندس / ايمن محمد السيد | مدير المشروع (الهيئة العامة للطرق والكباري) |
| 2-مهندس / محمد عاندي      | ممثل الهيئة العامة للطرق والكباري           |
| 3-مهندس / عمر كمال        | ممثل استشاري المشروع (سبكترام)              |
| 4-مهندس / مصطفى محمود     | ممثل مكتب الراند                            |
| 5-مهندس / محمد عبد الحليم | مهندس الشركة المنفذة                        |

بالإشارة إلى العقد المبرم بين الهيئة العامة للطرق والكباري وشركة محمود جمیل قطامش للمقاولات العامة وال TOR رقم (345/2023/2022) المؤرخ في 11/9/2022 بشأن الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع (العين السخنة - العاصمة - الادارية - العلمين - مطروح) لتنفيذ البرابح الخرسانية أسلق مسار القطار الكهربائي السريع لمسافة (59+057) - (61+477) - (93+617) على ان يتم التنفيذ طبقاً لشروط ومواصفات الهيئة الخاصة بهذه العملية.

وقامت اللجنة بالمرور على الموقع ووجدت انه لا يوجد عوائق ظاهرية تعيق البدء في تنفيذ المشروع (الموقع خالي من العوائق) وعليه اقفل المحضر على ذلك

1. محمد كيم الحامد احمد مدير المشروع - شركة محمود جمیل قطامش - الشركة المنفذة
2. مصطفى محمود ممثل مكتب الاستشاري (راند)
3. عمرو كمال ممثل استشاري المشروع (سبكترام)
4. محمد عاندي ممثل الهيئة العامة للطرق والكباري
5. ايمن محمد السيد مدير المشروع (الهيئة العامة للطرق والكباري)

يعتمد

رئيس الادارة المركزية

Magdy Abd Al-Salam Amr

## محضر استلام الابتدائي

أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع ( العين السخنة - العاصمه الاداريه - العلمين - مرسى مطروح ) لتنفيذ أعمال البراجح الخرسانية أسفل مسار

القطار الكهربائي السريع المسافة ( ٩٣+٦١٧ ) & ( ٥٩+٠٥٧ ) & ( ٦١+٤٧٧ )

تنفيذ : منشأة محمود جميل قطامش للمقاولات العامة والتوريدات

أنه في يوم الاحد الموافق ٢٠٢٣/٨/١ إجتمعت الجنة بحضور كلا من :-

- م/ اسماء على احمد
  - (المنطقة الاولى المركزية) رئيسا.
  - (المنطقة الاولى المركزية) عضوا جهاز الاشراف.
  - (المنطقة الاولى المركزية) عضوا .
  - (المنطقة الاولى المركزية) عضوا .
  - (مكتب سيسترا الاستشاري العام) عضوا.
  - (مكتب سبكترام استشاري الهيئة) عضوا.
  - (المنطقة الاولى المركزية) عضو إضافي.
  - م/ محمد عبد الله سليمان عضوا .
  - م/ مصطفى محمود عبد الغنى - (استشاري الاعمال الصناعية مكتب الراند) عضو إضافي .
- بناءا إلى قرار السيد المهندس / رئيس الادارة المركزية المنطقة الاولى رقم (٢٣) لسنة ٢٠٢٣ بشان الاستلام الابتدائي للمشروع عاليه وال الصادر له العقد رقم: (٣٤٥/٢٠٢٢/٢٠٢٣) بتاريخ ٢٠٢٢/٩/١١
- وبعد المعاينة والفحص الظاهري والاطلاع على ملف العملية وكراسة الشروط والمواصفات تقرر الآتي :-

أولاً : بريخ عند المحطة ( ٥٩+٠٥٧ ) & ( ٦١+٤٧٧ ) :-

- تقرر خصم نسبة ١٠ % على نسبة ١٥ % من إجمالي قيمة بند رقم (٢-٢) أعمال توريد وصب خرسانة مسلحة لزوملبسه والحوائط والأسقف نظرا لعدم إستواء السطح داخل البربخ وعدم تسوية السطح بأماكن الزاجين والتقوبات .
- سوف تقوم شركة الكاشف بتنفيذ أعمال الحمايات بمدخل ومخرج البربخ طبقا للتعهد المقدم من الشركة "مرفق صورة"

ثانياً : بريخ عند المحطة ( ٩٣+٦١٧ ) :-

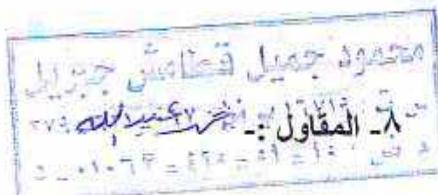
- تقرر خصم نسبة ٥ % على نسبة ١٥ % من إجمالي قيمة بند رقم (٢-٢) أعمال توريد وصب خرسانة مسلحة لزوملبسه والحوائط والأسقف نظرا لعدم إستواء السطح داخل البربخ وعدم تسوية السطح بأماكن الزاجين .
- سوف تقوم شركة على نصار للمقاولات العامة بتنفيذ أعمال الحمايات بمدخل ومخرج البربخ طبقا للتعهد المقدم من الشركة "مرفق صورة"

- علما بأن تاريخ النهو الفعلى للاعمال هو ٢٠٢٣/١/١١ .

✓ وعليه يكون تاريخ الاستلام الابتدائي وبداية فترة الضمان للمشروع عاليه .

وأقفل المحضر على ذلك :-

- التوقيع :-



٤- حسناً لرس مجموع  
٥- حسناً لرس مجموع  
٦- حسناً لرس مجموع  
٧-

١-  
٢-



### محضر تقييم

**أعمال الجسر الترابي والاعمال الصناعية لمشروع القطار الكهربائي السريع**

**(العين السخنة - العاصمه الاداريه - العلمين - مرسى مطروح) لتنفيذ أعمال البراجح الخرسانية أسلف مسار**

**القطار الكهربائي السريع المسافة (٥٩٠٥٧ & ٦١٤٧٧ & ٩٣٠٦١٧)**

**تنفيذ - منشأة محمود جمبل قطامش للمقاولات العامة والتوريدات**

انه في يوم الاحد ٢٠٢٣/٩/٢١ اجتمعت اللجنة بحضور كلا من :-

- ١- م/ اسماء على احمد
  - ٢- م/ أيمن محمد السيد
  - ٣- م/ محمد على أبو الجود
  - ٤- م/ إسلام محمد البهادري
  - ٥- م/ ضياء الدين محمود
  - ٦- م/ حسن محمود
  - ٧- م/ محمد غاندي
  - ٨- م/ محمد عبد الله سليمان
  - ٩- م/ مصطفى محمود عبد الغنى
  - (استشارى الاعمال الصناعية مكتب الراند) عضو إضافي .
- بناءاً إلى قرار السيد المهندس / رئيس الادارة المركزية المنطقة الاولى رقم (٢٣) لسنة ٢٠٢٣ بشأن  
الاستلام الابتدائى للمشروع عاليه والصادر له العقد رقم: (٣٤٥/٢٠٢٢/٢٣) بتاريخ ٢٠٢٢/٩/١١
- وبعد الاطلاع على محضر الاستلام بتاريخ ٢٠٢٣/٨/١ وملفات التجارب المعملية الخاصة بالمشروع تمت  
تقييم وحساب الخصومات المالية وجاءت كالالتى :-

**أولاً:- الخصم طبقاً لمحضر الاستلام الابتدائى :-**

- خصم على بند رقم (٢-٢) (الخ رسالة المسلحة لزوم اللبشه والحوافظ والاسقف) نظراً لعدم إستواء السطح داخل البريج  
وعدم تسوية السطح باماكن الزاجين والتقويات .

- ١- خصم على بريخ ٥٩٠٥٧ = (١٠,٠٠,٠٧٠,١١٦,٠٠٠)\* ٤٥٠٠ ج = ٧٨٣٤,٧٢٥ جنية .
- ٢- خصم على بريخ ٦١٤٧٧ = (٠,١٠,٠٩١,٩١٠,٢٩٠,٣٠٠)\* ٤٥٠٠ ج = ١٩٦٣٦,٤٢٥ جنية .
- ٣- خصم على بريخ ٩٣٠٦١٧ = (٠,٠٥,٠٤٤,٤٦٦,٤٦٦,٠٠٠)\* ٤٥٠٠ ج = ١٥٧٤٢,٣٥ جنية .
- ٤- **اجمالي قيمة الخصم طبقاً لمحضر الاستلام = ٤٢٢١٣,٥٠ جنية .**

**ثانياً:- الخصم على التجارب المعملية :-**

**اجمالي الخصم على التجارب المعملية - ٠٠٠ جنية .**

**اجمالي قيمة الخصومات محضر التقييم - ٤٢٢١٣,٥٠ جنية .**

**اجمالي قيمة الخصومات بعد خصم ٠,٥ % طبقاً لفاوضة التعاقد - ٤٢٩٩٧,٥ جنية .**

وأقفل المحضر وعلى ذلك التوقيع :-

٩- استشارى البراجح :-



٨- المقاول :-



٥- ضياء الدين محمود

٤- ١٣١٤

١-



التحقيق الذي  
أعمله الخبراء والمعلم الصناعية لمشروع الظفار الكهربائي السريع (العين المسنة - العصاذه، الاداره - العصاذه، عرسى عطروج) لتنشيط أعمال البراهين الفرسانية أصل مصار

الظفار الكهربائي السريع المسنة (٥٧٥٩٤٦١٧٢)، رقم ٦٣٠٢٢١٢، رقم ٣٠٢٢١٢،  
تنشيط - منشأة عدوه جبيل قطامي المقاولات العامة والتوريدات  
عقد رقم: (٥٤٤٤٣٣٣)

بيان - التصوّمات الخاطئة بخطه اليدوي والآلة  
خضم الخامات العادمة

البيان	نوع الخامات بعد التكسير (كم/س)	نسبة المطردة (%)	نسبة المطردة (جذب)	نسبة المطردة (جذب)	نسبة المطردة (جذب)	نوع الخامات بعد التكسير (كم/س)	نسبة المطردة (%)	نوع الخامات بعد التكسير (كم/س)	نسبة المطردة (%)	نوع الخامات بعد التكسير (كم/س)	نسبة المطردة (%)
١	٢٣٥	٢٥.	٢٥.	٢٥.	٢٥.	٢٣٦	٢٥.	٢٣٦	٢٥.	٢٣٦	٢٥.
٢	٢٣٦	٢٦.	٢٦.	٢٦.	٢٦.	٢٣٦	٢٦.	٢٣٦	٢٦.	٢٣٦	٢٦.
٣	٢٣٦	٢٧.	٢٧.	٢٧.	٢٧.	٢٣٦	٢٧.	٢٣٦	٢٧.	٢٣٦	٢٧.
٤	٢٣٦	٢٨.	٢٨.	٢٨.	٢٨.	٢٣٦	٢٨.	٢٣٦	٢٨.	٢٣٦	٢٨.
٥	٢٣٦	٢٩.	٢٩.	٢٩.	٢٩.	٢٣٦	٢٩.	٢٣٦	٢٩.	٢٣٦	٢٩.
٦	٢٣٦	٣٠.	٣٠.	٣٠.	٣٠.	٢٣٦	٣٠.	٢٣٦	٣٠.	٢٣٦	٣٠.
٧	٢٣٦	٣١.	٣١.	٣١.	٣١.	٢٣٦	٣١.	٢٣٦	٣١.	٢٣٦	٣١.
٨	٢٣٦	٣٢.	٣٢.	٣٢.	٣٢.	٢٣٦	٣٢.	٢٣٦	٣٢.	٢٣٦	٣٢.
٩	٢٣٦	٣٣.	٣٣.	٣٣.	٣٣.	٢٣٦	٣٣.	٢٣٦	٣٣.	٢٣٦	٣٣.
١٠	٢٣٦	٣٤.	٣٤.	٣٤.	٣٤.	٢٣٦	٣٤.	٢٣٦	٣٤.	٢٣٦	٣٤.
١١	٢٣٦	٣٥.	٣٥.	٣٥.	٣٥.	٢٣٦	٣٥.	٢٣٦	٣٥.	٢٣٦	٣٥.
١٢	٢٣٦	٣٦.	٣٦.	٣٦.	٣٦.	٢٣٦	٣٦.	٢٣٦	٣٦.	٢٣٦	٣٦.
١٣	٢٣٦	٣٧.	٣٧.	٣٧.	٣٧.	٢٣٦	٣٧.	٢٣٦	٣٧.	٢٣٦	٣٧.
١٤	٢٣٦	٣٨.	٣٨.	٣٨.	٣٨.	٢٣٦	٣٨.	٢٣٦	٣٨.	٢٣٦	٣٨.
١٥	٢٣٦	٣٩.	٣٩.	٣٩.	٣٩.	٢٣٦	٣٩.	٢٣٦	٣٩.	٢٣٦	٣٩.
١٦	٢٣٦	٤٠.	٤٠.	٤٠.	٤٠.	٢٣٦	٤٠.	٢٣٦	٤٠.	٢٣٦	٤٠.
١٧	٢٣٦	٤١.	٤١.	٤١.	٤١.	٢٣٦	٤١.	٢٣٦	٤١.	٢٣٦	٤١.
١٨	٢٣٦	٤٢.	٤٢.	٤٢.	٤٢.	٢٣٦	٤٢.	٢٣٦	٤٢.	٢٣٦	٤٢.
١٩	٢٣٦	٤٣.	٤٣.	٤٣.	٤٣.	٢٣٦	٤٣.	٢٣٦	٤٣.	٢٣٦	٤٣.
٢٠	٢٣٦	٤٤.	٤٤.	٤٤.	٤٤.	٢٣٦	٤٤.	٢٣٦	٤٤.	٢٣٦	٤٤.
٢١	٢٣٦	٤٥.	٤٥.	٤٥.	٤٥.	٢٣٦	٤٥.	٢٣٦	٤٥.	٢٣٦	٤٥.
٢٢	٢٣٦	٤٦.	٤٦.	٤٦.	٤٦.	٢٣٦	٤٦.	٢٣٦	٤٦.	٢٣٦	٤٦.
٢٣	٢٣٦	٤٧.	٤٧.	٤٧.	٤٧.	٢٣٦	٤٧.	٢٣٦	٤٧.	٢٣٦	٤٧.
٢٤	٢٣٦	٤٨.	٤٨.	٤٨.	٤٨.	٢٣٦	٤٨.	٢٣٦	٤٨.	٢٣٦	٤٨.
٢٥	٢٣٦	٤٩.	٤٩.	٤٩.	٤٩.	٢٣٦	٤٩.	٢٣٦	٤٩.	٢٣٦	٤٩.
٢٦	٢٣٦	٥٠.	٥٠.	٥٠.	٥٠.	٢٣٦	٥٠.	٢٣٦	٥٠.	٢٣٦	٥٠.
٢٧	٢٣٦	٥١.	٥١.	٥١.	٥١.	٢٣٦	٥١.	٢٣٦	٥١.	٢٣٦	٥١.
٢٨	٢٣٦	٥٢.	٥٢.	٥٢.	٥٢.	٢٣٦	٥٢.	٢٣٦	٥٢.	٢٣٦	٥٢.
٢٩	٢٣٦	٥٣.	٥٣.	٥٣.	٥٣.	٢٣٦	٥٣.	٢٣٦	٥٣.	٢٣٦	٥٣.
٣٠	٢٣٦	٥٤.	٥٤.	٥٤.	٥٤.	٢٣٦	٥٤.	٢٣٦	٥٤.	٢٣٦	٥٤.
٣١	٢٣٦	٥٥.	٥٥.	٥٥.	٥٥.	٢٣٦	٥٥.	٢٣٦	٥٥.	٢٣٦	٥٥.
٣٢	٢٣٦	٥٦.	٥٦.	٥٦.	٥٦.	٢٣٦	٥٦.	٢٣٦	٥٦.	٢٣٦	٥٦.
٣٣	٢٣٦	٥٧.	٥٧.	٥٧.	٥٧.	٢٣٦	٥٧.	٢٣٦	٥٧.	٢٣٦	٥٧.
٣٤	٢٣٦	٥٨.	٥٨.	٥٨.	٥٨.	٢٣٦	٥٨.	٢٣٦	٥٨.	٢٣٦	٥٨.
٣٥	٢٣٦	٥٩.	٥٩.	٥٩.	٥٩.	٢٣٦	٥٩.	٢٣٦	٥٩.	٢٣٦	٥٩.
٣٦	٢٣٦	٦٠.	٦٠.	٦٠.	٦٠.	٢٣٦	٦٠.	٢٣٦	٦٠.	٢٣٦	٦٠.
٣٧	٢٣٦	٦١.	٦١.	٦١.	٦١.	٢٣٦	٦١.	٢٣٦	٦١.	٢٣٦	٦١.
٣٨	٢٣٦	٦٢.	٦٢.	٦٢.	٦٢.	٢٣٦	٦٢.	٢٣٦	٦٢.	٢٣٦	٦٢.
٣٩	٢٣٦	٦٣.	٦٣.	٦٣.	٦٣.	٢٣٦	٦٣.	٢٣٦	٦٣.	٢٣٦	٦٣.
٤٠	٢٣٦	٦٤.	٦٤.	٦٤.	٦٤.	٢٣٦	٦٤.	٢٣٦	٦٤.	٢٣٦	٦٤.
٤١	٢٣٦	٦٥.	٦٥.	٦٥.	٦٥.	٢٣٦	٦٥.	٢٣٦	٦٥.	٢٣٦	٦٥.
٤٢	٢٣٦	٦٦.	٦٦.	٦٦.	٦٦.	٢٣٦	٦٦.	٢٣٦	٦٦.	٢٣٦	٦٦.
٤٣	٢٣٦	٦٧.	٦٧.	٦٧.	٦٧.	٢٣٦	٦٧.	٢٣٦	٦٧.	٢٣٦	٦٧.
٤٤	٢٣٦	٦٨.	٦٨.	٦٨.	٦٨.	٢٣٦	٦٨.	٢٣٦	٦٨.	٢٣٦	٦٨.
٤٥	٢٣٦	٦٩.	٦٩.	٦٩.	٦٩.	٢٣٦	٦٩.	٢٣٦	٦٩.	٢٣٦	٦٩.
٤٦	٢٣٦	٧٠.	٧٠.	٧٠.	٧٠.	٢٣٦	٧٠.	٢٣٦	٧٠.	٢٣٦	٧٠.
٤٧	٢٣٦	٧١.	٧١.	٧١.	٧١.	٢٣٦	٧١.	٢٣٦	٧١.	٢٣٦	٧١.
٤٨	٢٣٦	٧٢.	٧٢.	٧٢.	٧٢.	٢٣٦	٧٢.	٢٣٦	٧٢.	٢٣٦	٧٢.
٤٩	٢٣٦	٧٣.	٧٣.	٧٣.	٧٣.	٢٣٦	٧٣.	٢٣٦	٧٣.	٢٣٦	٧٣.
٥٠	٢٣٦	٧٤.	٧٤.	٧٤.	٧٤.	٢٣٦	٧٤.	٢٣٦	٧٤.	٢٣٦	٧٤.
٥١	٢٣٦	٧٥.	٧٥.	٧٥.	٧٥.	٢٣٦	٧٥.	٢٣٦	٧٥.	٢٣٦	٧٥.
٥٢	٢٣٦	٧٦.	٧٦.	٧٦.	٧٦.	٢٣٦	٧٦.	٢٣٦	٧٦.	٢٣٦	٧٦.
٥٣	٢٣٦	٧٧.	٧٧.	٧٧.	٧٧.	٢٣٦	٧٧.	٢٣٦	٧٧.	٢٣٦	٧٧.
٥٤	٢٣٦	٧٨.	٧٨.	٧٨.	٧٨.	٢٣٦	٧٨.	٢٣٦	٧٨.	٢٣٦	٧٨.
٥٥	٢٣٦	٧٩.	٧٩.	٧٩.	٧٩.	٢٣٦	٧٩.	٢٣٦	٧٩.	٢٣٦	٧٩.
٥٦	٢٣٦	٨٠.	٨٠.	٨٠.	٨٠.	٢٣٦	٨٠.	٢٣٦	٨٠.	٢٣٦	٨٠.
٥٧	٢٣٦	٨١.	٨١.	٨١.	٨١.	٢٣٦	٨١.	٢٣٦	٨١.	٢٣٦	٨١.
٥٨	٢٣٦	٨٢.	٨٢.	٨٢.	٨٢.	٢٣٦	٨٢.	٢٣٦	٨٢.	٢٣٦	٨٢.
٥٩	٢٣٦	٨٣.	٨٣.	٨٣.	٨٣.	٢٣٦	٨٣.	٢٣٦	٨٣.	٢٣٦	٨٣.
٦٠	٢٣٦	٨٤.	٨٤.	٨٤.	٨٤.	٢٣٦	٨٤.	٢٣٦	٨٤.	٢٣٦	٨٤.
٦١	٢٣٦	٨٥.	٨٥.	٨٥.	٨٥.	٢٣٦	٨٥.	٢٣٦	٨٥.	٢٣٦	٨٥.
٦٢	٢٣٦	٨٦.	٨٦.	٨٦.	٨٦.	٢٣٦	٨٦.	٢٣٦	٨٦.	٢٣٦	٨٦.
٦٣	٢٣٦	٨٧.	٨٧.	٨٧.	٨٧.	٢٣٦	٨٧.	٢٣٦	٨٧.	٢٣٦	٨٧.
٦٤	٢٣٦	٨٨.	٨٨.	٨٨.	٨٨.	٢٣٦	٨٨.	٢٣٦	٨٨.	٢٣٦	٨٨.
٦٥	٢٣٦	٨٩.	٨٩.	٨٩.	٨٩.	٢٣٦	٨٩.	٢٣٦	٨٩.	٢٣٦	٨٩.
٦٦	٢٣٦	٩٠.	٩٠.	٩٠.	٩٠.	٢٣٦	٩٠.	٢٣٦	٩٠.	٢٣٦	٩٠.
٦٧	٢٣٦	٩١.	٩١.	٩١.	٩١.	٢٣٦	٩١.	٢٣٦	٩١.	٢٣٦	٩١.
٦٨	٢٣٦	٩٢.	٩٢.	٩٢.	٩٢.	٢٣٦	٩٢.	٢٣٦	٩٢.	٢٣٦	٩٢.
٦٩	٢٣٦	٩٣.	٩٣.	٩٣.	٩٣.	٢٣٦	٩٣.	٢٣٦	٩٣.	٢٣٦	٩٣.
٧٠	٢٣٦	٩٤.	٩٤.	٩٤.	٩٤.	٢٣٦	٩٤.	٢٣٦	٩٤.	٢٣٦	٩٤.
٧١	٢٣٦	٩٥.	٩٥.	٩٥.	٩٥.	٢٣٦	٩٥.	٢٣٦	٩٥.	٢٣٦	٩٥.
٧٢	٢٣٦	٩٦.	٩٦.	٩٦.	٩٦.	٢٣٦	٩٦.	٢٣٦	٩٦.	٢٣٦	٩٦.
٧٣	٢٣٦	٩٧.	٩٧.	٩٧.	٩٧.	٢٣٦	٩٧.	٢٣٦	٩٧.	٢٣٦	٩٧.
٧٤	٢٣٦	٩٨.	٩٨.	٩٨.	٩٨.	٢٣٦	٩٨.	٢٣٦	٩٨.	٢٣٦	٩٨.
٧٥	٢٣٦	٩٩.	٩٩.	٩٩.	٩٩.	٢٣٦	٩٩.	٢٣٦	٩٩.	٢٣٦	٩٩.
٧٦	٢٣٦	١٠٠.	١٠٠.	١٠٠.	١٠٠.	٢٣٦	١٠٠.	٢٣٦	١٠٠.	٢٣٦	١٠٠.



الدكتور محمد بن عيسى بن عيسى

مختار العيسى

مختار العيسى

مختار العيسى

مختار العيسى

الدكتور محمد بن عيسى

مختار العيسى



۱۰۷

**أعمال الجسر المزدوج والأنفاق الصناعية** مشروع الغطاء الكثيف والسلبي (العنوان نفسه) - المساعدة الإدارية - العاملين - موسى عطية (التنفيذ) - أعمال البناء الخرسانية (العنوان نفسه) عمار عسار (التنفيذ) - مهندس مختار قاسمي (المقاولات العامة) والمتوزعات عقد رقم (٤٥٢/٣٢٠٢٢٢٠٢)

**بيانها - الأدلة وبيانات المعاشرة بخصوص الجودة والأختبارات**

ملاحظات	نسبة المعيوب في المكسر بالتجهيز (%)	نسبة المعيوب من المكسر (%)	نسبة المكسر التجهيز (%)	نسبة المكسر المطلوب (%)	نسبة المكسر بعد التجهيز (%)	نسبة المكسر بعد التجهيز (%)	النوع	النوع	
								التجهيز المطلوب (نحو ٣٠%)	تجهيز المكسر بعد التجهيز (%)
١	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٢	٤٦٦	٤٦٦
٢	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٢	٥٤٣	٥٤٣
٣	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٣	٥٣٨	٥٣٨
٤	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٤	٥٤٨	٥٤٨
٥	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٥	٩٣٧	٩٣٧
٦	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٦	٥١٣	٥١٣
٧	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٧	٥٥٠	٥٥٠
٨	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٨	٥٣١	٥٣١
٩	٢٠٠	٢٠	٢٠٠	٢٠	٢٠	٢٠	٩	٤٦٥	٤٦٥



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**احتفال نوبة الخصم المقعد رقم ٥**

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العميل : شركة محمود جمبل قطامش جبريل مقاولات عامة و توريدات	رقم الوارد : 2022/6/23
	رقم الصادر : 2022/6/27 (517)

تقرير فني عن الشد و الثني و تحليـل كـيـميـائـي لـعـدـد 2 عـيـنـات مـن حـدـيد تـسـليـح مـشـرـشـر بـقـطـر 12 مـم و 16 مـم. النـتـائـج المـبيـنـة فـي التـقـرـير لا تـمـثـل إـلـا العـيـنـة الـتـي تمـ اـخـتـيـارـهـا و الـتـي تمـ تـوـرـيـدـهـا إـلـى المـعـمـل بـعـرـفـة العـمـيل، و أـي اـسـقـاطـهـا عـلـى كـمـيـات أـخـرـى مـسـؤـلـيـة العـمـيل.

#### النتائج:

#### أولاً: اختبار الشد و الثني:

Diameter (mm) /Stamped code	Ultimate Tensile Strength (MPa)	Yield strength (MPa)	Elongation % [*]	Bending
12/EZ-AL-500-DWR	658	502	13.4	Accept
	653	496	11	Accept
	655	493	10	Accept
16/HADIDNA B500 DWR ARS	705	540	10	Accept
	715	558	9.4	Accept
	693	524	10.7	Accept

[\*]: Elongation % at maximum load

#### ثانياً: التحليل الكيميائي:

Dia. (mm)	C	Si	S	P	Mn	Ni	Cr	Mo	V	Cu	N	CEV	Fe
12	0.3	0.12	0.012	0.009	0.93	0.02	0.02	0.004	0.002	0.07	0.008	0.46	Bal.
16	0.3	0.2	0.01	0.009	1.58	0.02	0.02	0.002	0.005	0.08	0.007	0.57	Bal

د/ عبد الله عبدالفتاح عبد القوي  
مدرس بقسم التصميم الميكانيكي  
والانتاج والمشرف على  
الاختبارات

د/ مصطفى محمد سالم  
مدرس بقسم التصميم الميكانيكي  
والانتاج والمشرف على  
الاختبارات

أ/ إيهاب عادل الدنف  
أستاذ هندسة المواد بقسم  
التصميم الميكانيكي والانتاج  
ومدير المعمل



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



محل الاختبارات الميكانيكية  
قسم الفحصات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## Test Report

Test Request #	626	Specimen(s) ID	8-22/434
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The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, Impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø22 المترى		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمد جميل تلماش		
Project	مشروع التطار الكهربائي السريع		
General consultant	مكتب سينترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

- Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.
- The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/434	Required for B500DWR
Diameter	22	
Yield stress, MPa	515	500-650 min
Ultimate Tensile stress, MPa	680	-----
Elongation, %	21	13 min
R <sub>u0</sub> /R <sub>e0</sub>	1.32	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

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

Issue No/Rev No: 1/2



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

### **3- Bend Test:**

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

Serial No.: 124105000018

Test Specimen	Result
8-22/434 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

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

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/434

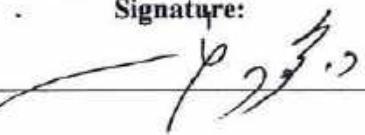
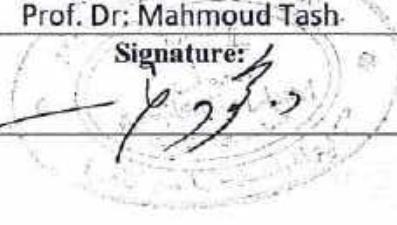
### Final Evaluation:

**According to compliance with Egyptian specifications standards 262-2:2009.**

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



Mechanical Testing Laboratory  
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كلية الهندسة - جامعة القاهرة

## Test Report

Test Request #	626	Specimen(s) ID	8-22430
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The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile, Hardness, impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø10 المترى		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سيسترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

- Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.
- The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22430	Required for B500DWR
Diameter	10	
Yield stress, MPa	541	500-650 min
Ultimate Tensile stress, MPa	697	-----
Elongation, %	24	13 min
$R_m/R_{eH}$	1.29	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

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Issue No/Rev No: 1/2

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كلية الهندسة - جامعة القاهرة

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.  
Serial No.:4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/430	0.341	0.908	0.229	0.037	0.020	0.111	0.089	0.578	0.012	0.004	0.001	0.000	0.001	0.559
Required for grade 3500DWR	0.32 +0.03 max	1.80 max	0.55 max	0.040 max	0.040 max	—	—	—	—	—	—	—	—	0.61 max

Test conducted by: J.F

Signature: \_\_\_\_\_

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

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

 <b>MTL</b> Mechanical Testing Laboratory Metallurgical Dept. – Building No. 32 Faculty of Engineering – Cairo University	 <b>EGAC</b> Accredited Testing CAB # 413004B(3)		معمل الاختبارات الميكانيكية قسم الفرزات - مبنى رقم 32 كلية الهندسة – جامعة القاهرة
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### **3- Bend Test:**

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

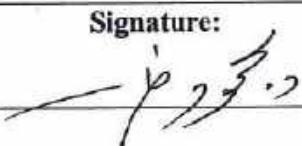
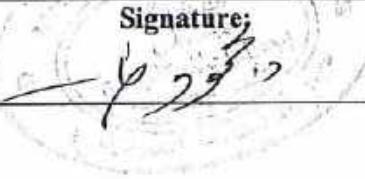
Serial No.: 124105000018

Test Specimen	Result
8-22/430 (bend)	<b>ACCEPTED</b>

Test conducted by:S.H

Signature:

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

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/430

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



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



Testing  
CAB #  
413004B(3)



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/436
----------------	-----	----------------	----------

The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, Impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø16 عز		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جبيل للمطامش		
. Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب موسى		
consultant	الراد للاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

- Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.
- The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/436	Required for B500DWR
Diameter	16	
Yield stress, MPa	553	500-650 min
Ultimate Tensile stress, MPa	709	-----
Elongation, %	23	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.28	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - MTCU02@yahoo.com

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

Issue No/Rev No: 1/2



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



Testing  
CAB #  
413004B(3)



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قسم الفلزات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## 2- Chemical Test:

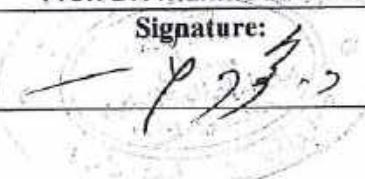
Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.  
Serial No.: 4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/436	0.315	0.764	0.123	0.047	0.045	0.074	0.036	0.345	0.009	0.001	0.001	0.004	0.004	0.479
Required for grade 3500DWR	0.32 max	1.80 max	0.55 max	0.040 +0.008 max	0.040 0.008+ max	—	—	—	—	—	—	—	—	0.61 max

Test conducted by: J.F

Signature: \_\_\_\_\_

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

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



Mechanical Testing Laboratory  
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Faculty of Engineering – Cairo University



Testing  
CAB #  
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معلم الاختبارات الميكانيكية  
قسم الفلزات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

### **3- Bend Test:**

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

Serial No.: 124105000018

Test Specimen	Result
8-22/436 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

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

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/436

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



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



معلم الاختبارات الميكانيكية  
قسم الفحازات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## Test Report

Test Request #	626	Specimen(s) ID	8-22/440
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The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, Impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø16 حديد السويس/حديتنا		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سيمتر		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38
• Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.			
• The Un-machined specimen was sent by the customer.			

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/440	Required for B500DWR
Diameter	16	
Yield stress, MPa	543	500-650 min
Ultimate Tensile stress, MPa	719	-----
Elongation, %	20	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.32	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - [MTLCU02@yahoo.com](mailto:MTLCU02@yahoo.com)

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

Issue No/Rev No: 1/2



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



Testing  
CAB #  
413004B(3)



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/437
----------------	-----	----------------	----------

The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø18		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب ميستر ا		
consultant	المراند للاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

\* Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.  
 \* The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/437	Required for B500DWR
Diameter	18	
Yield stress, MPa	523	500-650 min
Ultimate Tensile stress, MPa	699	-----
Elongation, %	23	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.34	1.25 min

Test conducted by:M.M

Signature:

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

Tel -Fax/Mobile: 0235678005 - 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

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Issue No/Rev No: 1/2



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Faculty of Engineering – Cairo University



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قسم الفحكات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.

Serial No.:4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/437	0.275	1.069	0.230	0.013	0.040	0.028	0.027	0.123	0.002	0.002	0.001	0.004	0.005	0.469
Required for grade 3500DWR	0.32 max	1.80 max	0.55 max	0.040 max	0.040 max	—	—	—	—	—	—	—	—	0.61 max

Test conducted by: J.F

Signature:

- The test results represent a sample provided – by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
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- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

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



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



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

### **3- Bend Test:**

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

Serial No.: 124105000018

Test Specimen	Result
8-22/437 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

- The results reported here are the responsibility of the lab, and represent the true results of the specimens provided by the customer. They do not represent any production quantities belonging to the customer.
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- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/437

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

Report prepared by: Eng/ Donia Essam

Reviewed by:

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



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



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/438
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The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	حديد السرير/ حديتنا Ø10		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جعيل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سيميترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

\* Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.  
 \* The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: L24105000018

Test Specimen	8-22/438	Required for B500DWR
Diameter	10	
Yield stress, MPa	528	500-650 min
Ultimate Tensile stress, MPa	706	-----
Elongation, %	26	13 min
R <sub>u0</sub> /R <sub>eu</sub>	1.34	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 - 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

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Mechanical Testing Laboratory  
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Faculty of Engineering – Cairo University



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قسم الفلزات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.

Serial No.:4545-AD

N(s)/Avg. of 2 Runs for each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
I-22/438	0.334	1.505	0.245	0.016	0.022	0.005	0.007	0.012	0.002	0.005	0.001	0.000	0.001	0.589
Required or grade 500DWR	0.32 +0.03 max	1.80 max	0.55 max	0.040 max	0.040 max	---	---	---	---	---	---	---	---	0.61 max

Test conducted by: J.F

Signature: \_\_\_\_\_

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

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

 <b>MTL</b> Mechanical Testing Laboratory Metallurgical Dept. – Building No. 32 Faculty of Engineering – Cairo University	 <b>EGAC</b> Accredited Testing CAB # 413004B(3)		معمل الاختبارات الميكانيكية قسم الفلزات - مبنى رقم 32 كلية الهندسة - جامعة القاهرة
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### **3- Bend Test:**

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

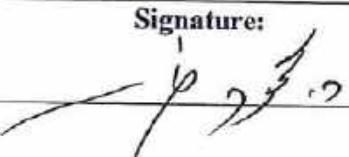
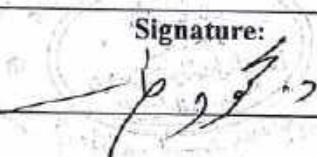
Serial No.: 124105000018

Test Specimen	Result
8-22/438 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

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

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/438

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

Reviewed by:

Technical Advisor	Lab. Manager / Lab. Supervisor
<i>[Signature]</i>	Prof. Dr. Mahmoud Tash
<i>[Signature]</i>	<i>[Signature]</i>

 <b>Mechanical Testing Laboratory</b> Metallurgical Dept. – Building No. 32 Faculty of Engineering – Cairo University	 <b>EGAC</b> <b>Accredited</b> Testing CAB # 413004B(3)	 معمل الاختبارات الميكانيكية قسم الفلزات - مبنى رقم 32 كلية الهندسة - جامعة القاهرة
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## Test Report

Test Request #	626	Specimen(s) ID	8-22431
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The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
 Accreditation Status Tensile ,Hardness, impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø12 المترى		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سيميترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	30/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38
<ul style="list-style-type: none"> <li>* Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.</li> <li>* The Un-machined specimen was sent by the customer.</li> </ul>			

### 1- Tensile Test:

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

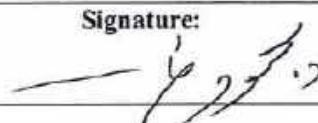
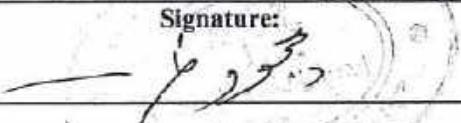
Serial No.: 124105000018

<b>Test Specimen</b>	<b>8-22/431</b>	<b>Required for B500DWR</b>
<b>Diameter</b>	<b>12</b>	
<b>Yield stress, MPa</b>	<b>553</b>	<b>500-650 min</b>
<b>Ultimate Tensile stress, MPa</b>	<b>715</b>	<b>-----</b>
<b>Elongation, %</b>	<b>25</b>	<b>13 min</b>
<b>R<sub>m</sub>/R<sub>eH</sub></b>	<b>1.29</b>	<b>1.25 min</b>

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - [MTLCU02@yahoo.com](mailto:MTLCU02@yahoo.com)

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

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



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

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.

Serial No.:4545-AD

D(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
3-22/434	0.289	0.949	0.282	0.023	0.026	0.143	0.087	0.508	0.017	0.003	0.002	0.000	0.001	0.512
Required for grade 500DWR	0.32 max	1.80 max	0.55 max	0.040 max	0.040 max	—	—	—	—	—	—	—	—	0.61 max

Test conducted by: J.F

Signature: \_\_\_\_\_

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- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/431

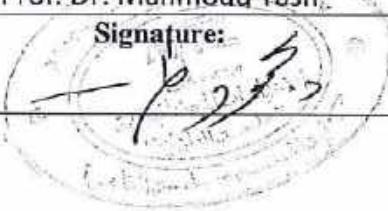
### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



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



Testing  
CAB #  
413004B(3)



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/439
----------------	-----	----------------	----------

The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, Impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	حديد الشويس/حدبتنا Ø12		
Owner	الهيئة القومية للأتفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سيسترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	/830/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38
<ul style="list-style-type: none"> <li>Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.</li> <li>The Un-machined specimen was sent by the customer.</li> </ul>			

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/439	Required for B500DWR
Diameter	12	
Yield stress, MPa	574	500-650 min
Ultimate Tensile stress, MPa	769	-----
Elongation, %	25	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.34	1.25 min

Test conducted by:M.M

Signature:

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

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

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

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

Issue No/Rev No: 1/2

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Faculty of Engineering – Cairo University



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

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.

Serial No.:4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/439	0.325	1.562	0.272	0.013	0.022	0.024	0.029	0.116	0.006	0.006	0.001	0.001	0.001	0.603
Required for grade 3500DWR	0.32 +0.03 max	1.80 max	0.55 max	0.040 max	0.040 max	---	---	---	---	---	---	---	---	0.61 max

Test conducted by: J.F

Signature:

- The test results represent a sample provided – by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
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Technical Advisor	Lab. Manager / Lab. Supervisor
	Prof. Dr: Mahmoud Tash
Signature: 	Signature: 



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



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

### **3- Bend Test:**

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

Serial No.: 124105000018

Test Specimen	Result
8-22/439 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

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

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



Mechanical Testing Laboratory  
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Faculty of Engineering – Cairo University



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/439

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



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



Testing  
CAB #  
413004B(3)



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/432
----------------	-----	----------------	----------

The MTL adopts the management systems that fulfills the requirements of the international standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, Impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø16 المصربين		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جميل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سينترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	28/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

\* Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.  
\* The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

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

Serial No.: 124105000018

Test Specimen	8-22/432	Required for B500DWR
Diameter	16	
Yield stress, MPa	577	500-650 min
Ultimate Tensile stress, MPa	737	-----
Elongation, %	23	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.28	1.25 min

Test conducted by:M.M

Signature:

- The test results represent a sample provided - by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
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Technical Advisor	Lab. Manager / Lab. Supervisor
Signature: 	Prof. Dr. Mahmoud Tash 

Tel -Fax/Mobile: 0235678005 – 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

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Mechanical Testing Laboratory  
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معمل الاختبارات الميكانيكية  
قسم الفحازات - مبنى رقم 32  
كلية الهندسة - جامعة القاهرة

## 2- Chemical Test:

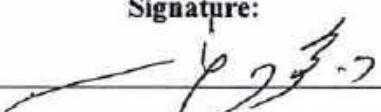
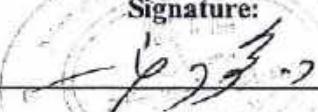
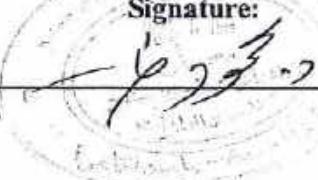
Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.  
Serial No.:4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/432	0.324	0.848	0.221	0.033	0.020	0.140	0.083	0.532	0.014	0.002	0.001	0.001	0.001	0.530
Required for grade 3500DWR	0.32 +0.03 max	1.80 max	0.55 max	0.040 max	0.040 max	--	--	--	--	--	--	--	--	0.61 max

Test conducted by: J.F

Signature: \_\_\_\_\_

- The test results represent a sample provided – by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
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Technical Advisor	Lab. Manager / Lab. Supervisor
Signature: _____	Prof. Dr. Mahmoud Tash
	 



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



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

### **3- Bend Test:**

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

Serial No.: 124105000018

Test Specimen	Result
8-22/432 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

- The results reported here are the responsibility of the lab, and represent the true results of the specimens provided by the customer. They do not represent any production quantities belonging to the customer.
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Technical Advisor	Lab. Manager / Lab. Supervisor
	Prof. Dr: Mahmoud Tash
Signature: 	Signature: 



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/432

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

**Report prepared by:** Eng/ Donia Essam

**Reviewed by:**

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



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

## Test Report

Test Request #	626	Specimen(s) ID	8-22/435
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The MTL adopts the management systems that fulfills the requirements of the International standard ISO/IEC 17025:2017  
Accreditation Status Tensile ,Hardness, impact, chemical tests are accredited in accordance with ISO 17025:2017

Date of request	28/8/2022	Number of pages	3
Test(s) Required	Tensile+ Chemical+ bend		
Test method (Mechanical)	Tension(ASTM E8/16)		
Test method(Chemical)	Low alloy steel(ASTM E415/17)		
Test item description	Ø25 المترن		
Owner	الهيئة القومية للأنفاق - وزارة النقل		
Company	شركة محمود جمبل قطامش		
Project	مشروع القطار الكهربائي السريع		
General consultant	مكتب سينترا		
consultant	الرائد لاستشارات الهندسية		
Date of Performing Test	28/8/2022	Test Report Date	31/8/2022
Temperature, °C	22	Humidity, %	38

\* Specimen details and conditions (shown above) are supplied by the customer; hence the lab bears no responsibility regarding these details.  
 \* The Un-machined specimen was sent by the customer.

### 1- Tensile Test:

Test Machine: SHIMADZU / UH-1000KNX Universal Testing Machine.  
Serial No.: 124105000018

Test Specimen	8-22/435	Required for B500DWR
Diameter	25	
Yield stress, MPa	522	500-650 min
Ultimate Tensile stress, MPa	697	-----
Elongation, %	17	13 min
R <sub>m</sub> /R <sub>eH</sub>	1.34	1.25 min

Test conducted by:M.M

Signature:

The test results represent a sample provided - by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.  
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Technical Advisor	Lab. Manager / Lab. Supervisor
Signature: 	Prof. Dr. Mahmoud Tash 

Tei -Fax/Mobile: 0235678005 - 01277721525 - 01277721545

Email: - MTCU02@yahoo.com

Building 32-Faculty of Engineering-Cairo University-El Gamaa St.-Giza.  
Issue No/Rev No: 1/2

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



Testing  
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413004B(3)



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

## 2- Chemical Test:

Test Equipment: ARL 3460 Spectrometer Arc/Spark OES.  
Serial No.: 4545-AD

ID(s)/Avg. of 2 Runs of each ID	Elements analyzed, %													
	C	Mn	Si	P	S	Ni	Cr	Cu	Mo	V	Ti	Al	B	Cev
8-22/435	0.313	0.959	0.272	0.018	0.020	0.116	0.110	0.521	0.015	0.003	0.001	0.001	0.001	0.541
Required for grade 3500DWR	0.32 max	1.80 max	0.55 max	0.040 max	0.040 max	---	---	---	---	---	---	---	---	0.61 max

Test conducted by: J.F

Signature:

- The test results represent a sample provided - by the customer - to the Lab only and do not represent the quantities of production or any other quantities belongs to the customer.
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- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

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

Tel -Fax/Mobile: 0235678005 - 01277721525 - 01277721545

Email: - MTLCU02@yahoo.com

Building 32-Faculty of Engineering-Cairo University-El Gamaa St.-Giza.  
Issue No/Rev No: 1/2

 <b>MTL</b> Mechanical Testing Laboratory Metallurgical Dept. - Building No. 32 Faculty of Engineering - Cairo University	 <b>EGAC</b> Accredited Testing CAB # 413004B(3)		معمل الاختبارات الميكانيكية قسم الفلزات - مبنى رقم 32 كلية الهندسة - جامعة القاهرة
--	--	--	--

### 3- Bend Test:

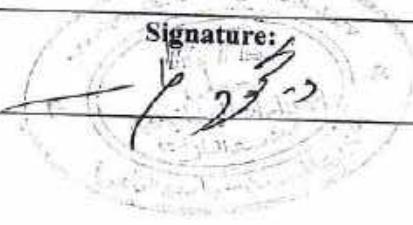
Test Machine: SHIMADZU / UH-1000KNX Universal Testing Machine.  
 Serial No.: 124105000018

Test Specimen	Result
8-22/435 (bend)	ACCEPTED

Test conducted by:S.H

Signature:

- The results reported here are the responsibility of the lab, and represent the true results of the specimens provided by the customer. They do not represent any production quantities belonging to the customer.
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- The lab responsibility of delivering the rest of sample(s) to the customer expires after 15 days after the test report issuance date or due to the depletion of the sample(s) during test.

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



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



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

## Conformity Report

This report based on the results presented in Test Request #:	626
Specimen(s) ID	8-22/435

### Final Evaluation:

According to compliance with Egyptian specifications standards 262-2:2009.

- 1- The specimen tensile properties are in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 2- The specimen chemical analysis is in conformity with grade B500DWR according to Egyptian specifications standards 262-2:2009.
- 3- The bend result is acceptable.

Report prepared by: Eng/ Donia Essam

Reviewed by:

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

<b>CONCRETE QUALITY CONTROL - DAHLY REPORT</b> <b>Electric Express Train - IS May Sector</b>																																			
<b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>3 ABD EL-KAWY AHMED ST , MOHANDSEEN - GIZA</b> <b>Tel : 33448413 - Fax : 33031719</b>																																			
<b>Batch Plant: M.G Mix</b> <b>Client: Kamamech Co</b> <b>Date : 14-Sep-2022</b> <b>File No.: 4800</b>																																			
<b>Description</b> <b>R.C/Culvert Box Station (59+057) Lab R</b> <b>C45</b>																																			
<b>Location :</b> <b>L</b>																																			
<b>Date of Casting:-</b> 17-Aug-2022 <b>Cube Dimensions : 150*150*150</b>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Code Iden</th> <th style="width: 15%;">Unit Weight (gm/cm<sup>3</sup>)</th> <th style="width: 15%;">Date Of Testing</th> <th style="width: 15%;">Age of Cube (days)</th> <th style="width: 15%;">Crushing Load (cm<sup>2</sup>)</th> <th style="width: 15%;">Compressive Strength (Kg/cm<sup>2</sup>)</th> <th style="width: 15%;">Remarks:</th> </tr> </thead> <tbody> <tr> <td>SC/545</td> <td>2.44</td> <td>14-Sep-2022</td> <td>28</td> <td>225</td> <td>112506</td> <td>500</td> </tr> <tr> <td>SC/545</td> <td>2.45</td> <td>14-Sep-2022</td> <td>28</td> <td>225</td> <td>121890</td> <td>542</td> </tr> <tr> <td>SC/545</td> <td>2.46</td> <td>14-Sep-2022</td> <td>28</td> <td>225</td> <td>121278</td> <td>539</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Average of Compressive Strength (kg/cm<sup>2</sup>)</td> <td>527</td> </tr> </tbody> </table>	Code Iden	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Remarks:	SC/545	2.44	14-Sep-2022	28	225	112506	500	SC/545	2.45	14-Sep-2022	28	225	121890	542	SC/545	2.46	14-Sep-2022	28	225	121278	539						Average of Compressive Strength (kg/cm <sup>2</sup> )	527
	Code Iden	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Remarks:																												
	SC/545	2.44	14-Sep-2022	28	225	112506	500																												
	SC/545	2.45	14-Sep-2022	28	225	121890	542																												
	SC/545	2.46	14-Sep-2022	28	225	121278	539																												
					Average of Compressive Strength (kg/cm <sup>2</sup> )	527																													

Prepared by:  
Eng. Roudi Yehia

Reviewed by:  
Engr. Osama Mofleh

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Compressive Crushing Load (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	267
SC/479	2.45	11-Aug-2022	7	225	56100	249	
SC/479	2.48	11-Aug-2022	7	225	60282	268	
SC/479	2.46	11-Aug-2022	7	225	63750	283	

Date of Casting:- 4-Aug-2022 Cube Dimensions : 150\*150\*150

Description	Mr
Location :	P.C/Culvert Box Wring Up Station (95+057) (59+057) C23

Batch Plant: MG Mix File No.: 4800  
Client: Katamech Co Date: 11-Aug-2022

Electric Express Train - 15 May Sector

CONCRETE QUALITY CONTROL - DAILY REPORT

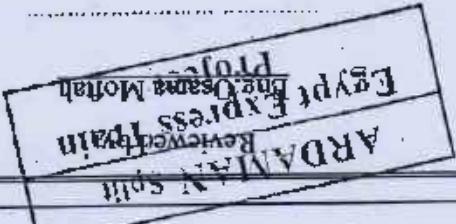
Tel.: 33448433 - Fax.: 33031719

3 ABD EL-KAWY AHMED 8L, MOHANDSEEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

ARDAMAN SPlit

Engr. Roudi Yehia  
Prepared by:



Remarks:

Code [den No.]	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (Kg/cm²)	Compressive Strength (Kg/cm²)	Average of Compressive Strength (kg/cm²)	332
SC/479	2.47	1-Sep-2022	28	225	74562	331		
SC/479	2.46	1-Sep-2022	28	225	74970	333		
SC/479	2.47	1-Sep-2022	28	225	74664	332		

Date of Casting:- 4-Aug-2022 Cube Dimensions : 150\*150\*150

Client: Katamech Co	Date: 1-Sep-2022	Batch Plant: MG Mix	File No.: 4800
Description	Mix	P.C/Culverin Box Wings Up Station (95+057) <i>(59+057)</i>	
Location :	C.25		

CONCRETE QUALITY CONTROL - DAILY REPORT		
Electric Express Train - 15 May Sector		
Client: Katamech Co	Date: 1-Sep-2022	Batch Plant: MG Mix
Description	Mix	P.C/Culverin Box Wings Up Station (95+057) <i>(59+057)</i>
Location :	C.25	
ARDAMAN SPLIT		

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED SA . MOHANDSEEN - GIZA  
Tel : 33448413 - Fax : 33031719

Prepared by:

H.E. Roudi Yehia

ARDMAN S.P.L  
REVISED & APPROVED  
BY THE PROJECT MANAGER  
FOR THE SAME WORK

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (Kg/cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	492
SC/587	2.47	21-Sep-2022	28	225	116280	517		
SC/587	2.51	21-Sep-2022	28	225	101898	453		
SC/587	2.45	21-Sep-2022	28	225	113730	505		

Date of Casting:- 24-Aug-2022 Cube Dimensions : 150\*150\*150

Description	Mix
Location :	R.C/Culvert Box Wing Wall Station (59+057) C.45

Client: Katamech Co	Date : 21-Sep-2022	File No.: 4800	Bach Plant: M.G Mix
---------------------	--------------------	----------------	---------------------

### Electric Express Train - 15 May Sector

### CONCRETE QUALITY CONTROL - DAILY REPORT

Tel : 3348413 - Fax : 33031719

3 ABD EL-KAWY AHMED ST. MOHANDEEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

ARDMAN S.P.L

# ARDAMAN Split

## CONCRETE QUALITY CONTROL - DAHY REPORT

Tel.: 33448413 - Fax.: 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED ST., MOHANDESEN - GIZA

Client: Katameesh Co Date: 31-Aug-2022 Batch Plant: M.G Mix File No.: 4800

Description	Mix
R.C/Calvert Box Wing Wall Station (59+057)	C45

Date of Casting:- 24-Aug-2022 Cube Dimensions : 150\*150\*150

Code Idean No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/587	2.43	31-Aug-2022	7	225	50898	226
SC/587	2.46	31-Aug-2022	7	225	82926	369
SC/587	2.47	31-Aug-2022	7	225	76908	342

Remarks:
----------

ARDAMAN Split  
Egyptian Same Month  
Project

Eng. Roudi Yehia  
Prepared by:  
J.P.D

Prepared by:  
Eng. Roudi Yehia

Egypt Keenwead by Train  
Eng. Osama Masha  
Project Manager

ARDAMAN Split

Remarks:

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (Kg/cm²)	Average of Compressive Strength (kg/cm²)	
						401	403
SC/545	2.44	24-Aug-2022	7	225	90780		
SC/545	2.42	24-Aug-2022	7	225	89760	399	
SC/545	2.43	24-Aug-2022	7	225	90270	401	

Date of Casting:- 17-Aug-2022      Cube Dimensions : 150\*150\*150

Location :	R.C/Culvert Box Station (59+057) LBR	C45
Description	Mix	

Client: Katamech Co Date : 24-Aug-2022  
Batch Plant: MG Mix File No.: 4800

### Electric Express Train - 15 May Sector

#### CONCRETE QUALITY CONTROL - DAILY REPORT

Tel: 33448413 • Fax: 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED ST., MOHANDESEN - GIZA

ARDAMAN Split

<b>ARDAMAN SPLIT</b>						
<b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b>						
<b>CONCRETE QUALITY CONTROL - DAILY REPORT</b>						
<b>Electric Express Train - 15 May Sector</b>						
<b>Client: Kattamash Co</b>						
<b>Date: 11-JUL-2022</b>						
<b>Batch Plant: Express</b>						
<b>File No.: 4800</b>						
<b>R.C/Culvert Box (Walls &amp; Slab) Station (59+037) Sec.(1-2-3)</b>						
<b>Cube Dimensions: 150*150*150</b>						
<b>Date of Casting:- 4-JUL-2022</b>						
<b>Description</b>  Mix	<b>Location:</b>  C.45					
	<b>Code Letter</b>  Unit Weight (gm/cm <sup>3</sup> )	<b>Date Of Testing</b>	<b>Age of Cube (days)</b>	<b>Area Loaded (cm<sup>2</sup>)</b>	<b>Crushing Load (kg/cm<sup>2</sup>)</b>	<b>Compressive Strength (kg/cm<sup>2</sup>)</b>
<b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b>  459						
SC/362  2.43  11-JUL-2022  7  225  101388  451	SC/362  2.48  11-JUL-2022  7  225  103530  460	SC/362  2.55  11-JUL-2022  7  225  104856  466				
<b>Prepared by:</b>  <b>Fahy Roudi Yehia</b>						
<b>Reviewed by:</b>  <b>Egypt Express Train Review Team</b>						
<b>ARDAMAN SPLIT</b>						
<b>EGYPT EXPRESS TRAIN Review Team</b>						

<b>ARDAMAN Sp<sup>tr</sup></b> <b>EGYPT EXPRESS Train</b> <b>Received by Motor</b> <b>Egyptian Sp<sup>tr</sup></b>							<i>DR</i> <b>Eng. Roudi Yehia</b> Prepared by:						
							Remarks:						
Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )						
							459						
							SC/362	2.55	11-Jul-2022	7	225	104856	466
							SC/362	2.48	11-Jul-2022	7	225	103530	460
							SC/362	2.43	11-Jul-2022	7	225	101388	451

Date of Casting:- 4-Jul-2022      Cube Dimensions : 150\*150\*150

Description	Mix
Location :	R/C/Culvert Box (Walls & Slab) Station (59+057) Sec.(1-2-3)

Client: Katamech Co Date : 11-Jul-2022 File No.: 4800 Batch Plant: Express

Electric Express Train - 15 May Sector

CONCRETE QUALITY CONTROL - DAILY REPORT

MATERIALS AND CONSTRUCTION TESTING, S.A.E Tel.: 33448413 - Fax: 33031719 3 ABD EL-KAWY AHMED St., MOHANDSEEN - GIZA

ARDAMAN Sp<sup>tr</sup>

<p style="text-align: right;">Prepared by Eng. Roudy Yehia</p> <p style="text-align: center;"><i>[Signature]</i></p> <p><b>ARDAMAN Split</b></p>																				
<p style="text-align: center;"><b>ARDAMAN Split Received by:</b> <b>Eng. Qassem Motalha</b> <b>Expt. Express Project</b> <b>Expt. Express</b></p>																				
<table border="1"> <tr> <td colspan="6"></td> <td>Remarks:</td> </tr> </table>													Remarks:							
						Remarks:														
<table border="1"> <tr> <td colspan="6">Average of Compressive Strength (kg/cm<sup>2</sup>)</td> <td>583</td> </tr> </table>							Average of Compressive Strength (kg/cm <sup>2</sup> )						583							
Average of Compressive Strength (kg/cm <sup>2</sup> )						583														
Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Cube Dimensions : 150*150*150														
SC/362	2.48	1-Aug-2022	28	225	131682	585														
SC/362	2.50	1-Aug-2022	28	225	134436	597														
SC/362	2.44	1-Aug-2022	28	225	127500	567														
						Date of Casting: - 4-Jul-2022														
<table border="1"> <tr> <td>Description</td> <td>Mr.</td> </tr> <tr> <td>R/C Culvert Box (Walls &amp; Slab) Station (59+057) Sec.(1-2-3)</td> <td>C43</td> </tr> <tr> <td colspan="2">Location :</td> </tr> </table>							Description	Mr.	R/C Culvert Box (Walls & Slab) Station (59+057) Sec.(1-2-3)	C43	Location :									
Description	Mr.																			
R/C Culvert Box (Walls & Slab) Station (59+057) Sec.(1-2-3)	C43																			
Location :																				
<table border="1"> <tr> <td>Batch Plant Express</td> <td>File No.: 4800</td> </tr> <tr> <td>Client: Katamech Co</td> <td>Date : 1-Aug-2022</td> </tr> <tr> <td colspan="2">Electric Express Train - 15 Mar Sector</td> </tr> <tr> <td colspan="2">CONCRETE QUALITY CONTROL - DAILY REPORT</td> </tr> <tr> <td colspan="2">MATERIALS AND CONSTRUCTION TESTING, S.A.E</td> </tr> <tr> <td colspan="2">3 ABD EL KAWY AHMED St. MOHAMED SEEN - GIZA</td> </tr> <tr> <td colspan="2">Tel: 33448413 - Fax: 33031719</td> </tr> </table>							Batch Plant Express	File No.: 4800	Client: Katamech Co	Date : 1-Aug-2022	Electric Express Train - 15 Mar Sector		CONCRETE QUALITY CONTROL - DAILY REPORT		MATERIALS AND CONSTRUCTION TESTING, S.A.E		3 ABD EL KAWY AHMED St. MOHAMED SEEN - GIZA		Tel: 33448413 - Fax: 33031719	
Batch Plant Express	File No.: 4800																			
Client: Katamech Co	Date : 1-Aug-2022																			
Electric Express Train - 15 Mar Sector																				
CONCRETE QUALITY CONTROL - DAILY REPORT																				
MATERIALS AND CONSTRUCTION TESTING, S.A.E																				
3 ABD EL KAWY AHMED St. MOHAMED SEEN - GIZA																				
Tel: 33448413 - Fax: 33031719																				

<b>ARDMAN Split</b> <b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>CONCRETE QUALITY CONTROL - DAILY REPORT</b> <b>Electric Express Train - 15 May Sector</b> <b>Client: Katamech Co</b> <b>Date : 1-Aug-2022</b> <b>Batch Plant: Express</b> <b>File No.: 4800</b> <b>Tel: 33448413 - Fax: 33031719</b> <b>3 ABD EL-KAWY AHMED St., MOHANDISEEN - GIZA</b>					
<b>ARDMAN Split</b> <b>Remarks:</b>					
<b>Remarks:</b>					
<b>Prepared by:</b> <b>Han-Roudi Yehia</b>					
<b>Egypt Express Train</b> <b>Revived Egyptian Motor</b> <b>ARDMAN Split</b>					
<b>SC/362</b> <b>2.48</b> <b>1-Aug-2022</b> <b>28</b> <b>225</b> <b>131682</b> <b>585</b> <b>SC/362</b> <b>2.50</b> <b>1-Aug-2022</b> <b>28</b> <b>225</b> <b>134436</b> <b>597</b> <b>SC/362</b> <b>2.44</b> <b>1-Aug-2022</b> <b>28</b> <b>225</b> <b>127500</b> <b>567</b> <b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b> <b>583</b>					
<b>Date of Casting:</b> <b>4-Ju-2022</b> <b>Cube Dimensions :</b> <b>150*150*150</b>					
<b>Description</b> <b>Alfa</b> <b>Location :</b> <b>R.C/Culvert Box (Walls &amp; Slab) Station (59+057) Sec(1-2-3)</b>					

Prepared by:  
Eng. Roudi Yehia

EGYPT EXPRESS TRAIN  
REHEATED BY  
ARDAMAN SPITE

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )		S76
						Area Loaded (cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	
SC/230	2.48	11-Jul-2022	28	225	130968	582		
SC/230	2.49	11-Jul-2022	28	225	127602	567		
SC/230	2.47	11-Jul-2022	28	225	130254	579		

Date of Casting:- 13-Jun-2022 Cube Dimensions : 150\*150\*150

Location :	R/C/Culvert Box Station (59+057)	C45
Description	Mr	
Batch Plant Express	File No.:	4800
Client: Katamech Co	Date :	11-Jul-2022

CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 15 May Sector

ARDAMAN SPITE

Tel.: 33448413 - Fax: 33031719

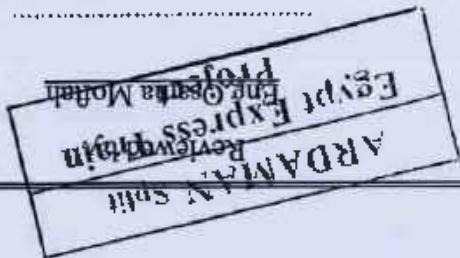
3 ABD EL-KAWY AHMED ST. MOHANDESEEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

Page: Koudi Yebia

Prepared by:

General Remarks:-



Q7	Location : P.C/Cultivation (69+057)
Ans.	Description

Machine Plant Expenses File No.: 4800

CGMCC Kartamresh Co Date : 20-Apr-2027

*Theatre Expressions - 15 May 2007*

#### CONFIDENTIALITY OF INFORMATION

#### **• STYLING TIPS**

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WYATT & CO., AUCKLAND, NEW ZEALAND.

**WIRU-NAIS-ONIDA** - VOLUME XXV  
JULY 1911 VOL. XIX NO. 1

AND GOD GOES ON AND ON AND ON AND ON AND ON AND ON

10.000-15.000 m² per year. The total area of the forest is about 100 ha.

卷之三

ANSWER

— 10 —

For more information about the study, please contact Dr. Michael J. Koenig at (412) 248-1000 or via email at [koenig@cmu.edu](mailto:koenig@cmu.edu).

Prepared by:

Eng. Roudi Yehia

ARDAMAN Spcl  
Reinforced Bricks  
Egyptian Standard  
Project Manager

Remarks:

Code Iden	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crossing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/105	2.52	18-May-2022	28	225	81702	363	355
SC/105	2.48	18-May-2022	28	225	80988	360	
SC/105	2.53	18-May-2022	28	225	76602	340	

Date of Casting: 20-Apr-2022 Cube Dimension: 150\*150\*150

Test No.:	P/C (Weight = 59+057)	G25
Dimension:	Mm	

Batch No.: 18-May-2022 Date: 18-May-2022  
Chem. Engg. Sh Co Batch No.: 18-May-2022 Date: 18-May-2022

L75000 Express Type - 15 Mtr. Seader

CONCRETE QUALITY CONTROL - DAKKAH EGYPT

Tel: 3344313 - Fax: 33031719

MANUFACTURERS AND CONSTRUCTORS OF STRENGTH TEST EQUIPMENT

ARDAMAN Spcl

Prepared by:  
Eng. Roudi Yehia

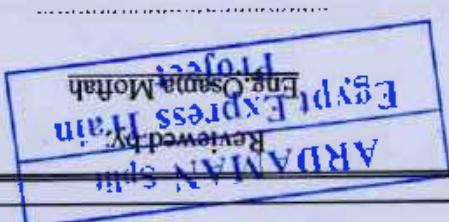
ARDAMAN Spu  
ARDAMAN Spu  
EGYPT EXPRESS TRAIN  
EGYPT EXPRESS TRAIN  
Project

Remarks:

Code. No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cubes (days)	Area Loaded (cm <sup>2</sup> )	Crush load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	279
SC/105	2.44	27-Apr-2022	7	225	66810	297		
SC/105	2.40	27-Apr-2022	7	225	56712	252		
SC/105	2.44	27-Apr-2022	7	225	64770	288		

Date of Casting:- 20-Apr-2022 Cube Dimensions : 150\*150\*150

Client : Aramex Co	Date : 27-Apr-2022	Batch No.: 4300	Description	Mr.	Log. in :	P.C/Cutter set (59+037)	Log. t cm :
EGYPT EXPRESS TRAIN - 15 MILE Sector							
CONCRETE QUALITY CONTROL - DAILY REPORT							
MATERIALS AND CONSTRUCTION TESTING, S.A.E 2490 HADAYA ALEXANDRIA, MOHENDSEN - GIZA TEL: 3444111 - FAX: 3444112							
ARDAMAN SPU							



Ende, Roudolf Yehuda

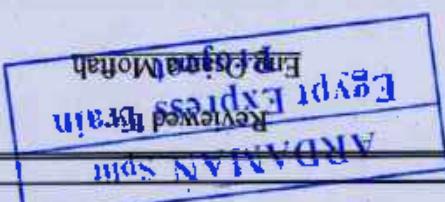
Prepared by:

Remarks:

Code Letter	Unit Weight (g/m <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )		No.
						507	507	
SC/230	2.45	20-Jun-2022	7	225	109650	487		
SC/230	2.46	20-Jun-2022	7	225	112302	499		
SC/230	2.49	20-Jun-2022	7	225	120054	534		

Date of Casting:- 13-Jun-2022

ARDAMAN SPLIT	
<b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b>	
3 ABD EL-KAWY AHMED ST. , MOHANDESEEN - GIZA	
TEL : 33448413 • FAX : 33031719	
<b>CONCRETE QUALITY CONTROL - DAILY REPORT</b>	
<b>Electric Express Train - 15 May Sector</b>	
Client: Kamemes Co Date : 20-Jun-2022	
Batch Plant: Express File No.: 4800	
Description	Area
R.C/Culvert Box Station (59+057)	C45
Location :	

<b>ARDAMAN SPLIT</b> 																			
Prepared by: Ene. Roudi Yehia																			
Remarks:																			
Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Cwshing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )												
SC/230	2.48	11-Jul-2022	28	225	130968	582	576												
SC/230	2.49	11-Jul-2022	28	225	127602	567													
SC/230	2.47	11-Jul-2022	28	225	130254	579													
Date of Casting:- 13-Jun-2022      Cube Dimensions : 150*150*150																			
<table border="1"> <tr> <td>Description:</td> <td>Mr.</td> </tr> <tr> <td>Location:</td> <td>R.C/Culvert Box Station (59+057)</td> </tr> </table>								Description:	Mr.	Location:	R.C/Culvert Box Station (59+057)								
Description:	Mr.																		
Location:	R.C/Culvert Box Station (59+057)																		
<table border="1"> <tr> <td>Client: Katamech Co</td> <td>Date: 11-Jul-2022</td> <td>Batch Plant: Express</td> <td>File No.: 4800</td> </tr> </table>								Client: Katamech Co	Date: 11-Jul-2022	Batch Plant: Express	File No.: 4800								
Client: Katamech Co	Date: 11-Jul-2022	Batch Plant: Express	File No.: 4800																
<table border="1"> <tr> <td colspan="4">CONCRETE QUALITY CONTROL - DATA REPORT</td> </tr> <tr> <td colspan="4">Electric Express Train - IS Maw Sector</td> </tr> </table>								CONCRETE QUALITY CONTROL - DATA REPORT				Electric Express Train - IS Maw Sector							
CONCRETE QUALITY CONTROL - DATA REPORT																			
Electric Express Train - IS Maw Sector																			
<table border="1"> <tr> <td colspan="4">MATERIALS AND CONSTRUCTION TESTING, S.A.E</td> </tr> <tr> <td colspan="4">3 ABD EL-KAWY AHMED ST., MOHANDESIEN - GIZA</td> </tr> <tr> <td colspan="4">Tel.: 3348413 - Fax: 33031719</td> </tr> </table>								MATERIALS AND CONSTRUCTION TESTING, S.A.E				3 ABD EL-KAWY AHMED ST., MOHANDESIEN - GIZA				Tel.: 3348413 - Fax: 33031719			
MATERIALS AND CONSTRUCTION TESTING, S.A.E																			
3 ABD EL-KAWY AHMED ST., MOHANDESIEN - GIZA																			
Tel.: 3348413 - Fax: 33031719																			

<b>ARDAMAN Spiti</b> <b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>CONCRETE QUALITY CONTROL - DAILY REPORT</b> <b>Electric Express Train - 15 May Sector</b> <b>3 ABD EL-KAWY AHMED St. , MOHANDESEN - GIZA</b> <b>Tel. : 33448413 - Fax : 33031719</b>						
<b>Clemt: Kalamech Co</b> <b>Date : 5-Jul-2022</b> <b>Batch Plant Express</b> <b>File No.: 4800</b>						
<b>Description</b> <b>R.C/Culvert Box Station (61+477)</b> <b>C45</b> <b>Location :</b>						
<b>Date of Casting:</b> 7-Jun-2022 <b>Cube Dimensions : 150*150*150</b>						
Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (cm <sup>2</sup> )	Area Loaded (cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/205	2.49	5-Jul-2022	28	225	118728	528
SC/205	2.49	5-Jul-2022	28	225	113832	506
SC/205	2.48	5-Jul-2022	28	225	117300	521
						518
<b>Remarks:</b>						

# ARDAMAN SP&T

## CONCRETE QUALITY CONTROL - DAILY REPORT

Tel : 33448413 - Fax : 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED SC , MOHANDSEEN - GIZA

Client: Karmesek Co Date : 5-JUL-2022 File No.: 4800

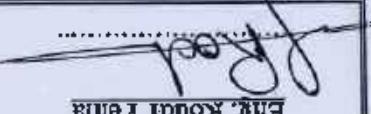
Batch Plant: Express

Description Max

Location : R/C Culvert Box Station (61+477)

Date of Casting: 7-Jun-2022 Cube Dimensions : 150\*150\*150

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Cube Loaded (cm²)	Crushing Load (K.g/cm²)	Compressive Strength (K.g/cm²)	Average of Compressive Strength (kg/cm²)	501
SC/205	2.49	5-JUL-2022	28	225	112812	501		
SC/205	2.46	5-JUL-2022	28	225	118320	526		
SC/205	2.50	5-JUL-2022	28	225	106998	476		

Prepared by:	
Eng. Osama Mofarh	
EGYPT REWELD ESS LTD	
ARDAMAN SP&T	
Remarks:	



Euge, Roudi Yehia

Prepared by:

**Remarks:**

Code No.	Unit Weight (kg/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	
SC/205	249	14-Jun-2022	7	225	91902	408		449
SC/205	247	14-Jun-2022	7	225	97104	432		
SC/205	250	14-Jun-2022	7	225	114240	508		
SC/205	250	14-Jun-2022	7	225	114240	508		

Date of Issue : 150-150-150 Date of Revise : 7-June-2022 Date of Revision : 03-Dimensions : 150-150-150

Batch No.	Date	Description	File No.	Location
100	10-10-97	H.G.Dulver Box Station (E1-47)	100	CAL

101388-101401-101411-101421-101431-101441-101451-101461

1990-1991: CONFERENCIAS DE DIFUSIÓN

GATE AT 100 - EDITION 1

**VIAZ-REARROW-MONTEGO BAY AIRPORT**

IVS DRILLS INTO THE DUSTY DEBRIS OF A SUPERNOVA

THE NEW YORK TIMES

• 100 •

Project : Egy. Fertig Spanne Metallbau						Prepared by : Eng. Roudi Yehia										
AR DAMAN Split						Remarks :										
Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )										
						518										
						SC/288	2.49	21-Jul-2022	28	225	118830	528				
						SC/288	2.50	21-Jul-2022	26	225	116688	519				
						SC/288	2.47	21-Jul-2022	28	225	114342	508				
Cube Dimensions : 150*150*150																
Date of Casting : 23-Jun-2022																
<table border="1"> <tr> <td>Description</td> <td>Mix</td> </tr> <tr> <td>R.C/Culvert Box Walls Station (61+477) Sec.(1-2-3)</td> <td>C.45</td> </tr> <tr> <td colspan="2">Location :</td> </tr> </table>							Description	Mix	R.C/Culvert Box Walls Station (61+477) Sec.(1-2-3)	C.45	Location :					
Description	Mix															
R.C/Culvert Box Walls Station (61+477) Sec.(1-2-3)	C.45															
Location :																
<table border="1"> <tr> <td>Date :</td> <td>21-Jul-2022</td> </tr> <tr> <td>File No.:</td> <td>4800</td> </tr> <tr> <td colspan="2">Batch Plant Express</td> </tr> <tr> <td colspan="2">Client: Kattamesh Co</td> </tr> </table>							Date :	21-Jul-2022	File No.:	4800	Batch Plant Express		Client: Kattamesh Co			
Date :	21-Jul-2022															
File No.:	4800															
Batch Plant Express																
Client: Kattamesh Co																
<table border="1"> <tr> <td colspan="2">CONCRETE QUALITY CONTROL - DAILY REPORT</td> </tr> <tr> <td colspan="2">Electric Express Train - 15 May Sector</td> </tr> <tr> <td colspan="2">MATERIALS AND CONSTRUCTION TESTING, S.A.E</td> </tr> <tr> <td colspan="2">3 ABD BL-KAWY AHMED SI . MOHANDESSEN - GIZA</td> </tr> <tr> <td colspan="2">Tel. : 33448413 - Fax : 33031719</td> </tr> </table>							CONCRETE QUALITY CONTROL - DAILY REPORT		Electric Express Train - 15 May Sector		MATERIALS AND CONSTRUCTION TESTING, S.A.E		3 ABD BL-KAWY AHMED SI . MOHANDESSEN - GIZA		Tel. : 33448413 - Fax : 33031719	
CONCRETE QUALITY CONTROL - DAILY REPORT																
Electric Express Train - 15 May Sector																
MATERIALS AND CONSTRUCTION TESTING, S.A.E																
3 ABD BL-KAWY AHMED SI . MOHANDESSEN - GIZA																
Tel. : 33448413 - Fax : 33031719																

<p style="text-align: center;"><b>ARDAMAN SPLIT</b></p> <p style="text-align: right;">Egyp. P.R. Engineering Materials Project Manager</p> <p style="text-align: center;">ARDAMAN SPLIT</p>						
<p style="text-align: right;">Prepared by: <i>Road</i> Eng. Roudi Yehia</p>						
<p style="text-align: right;">Remarks:</p>						
Code /Item No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (kg/cm <sup>2</sup> )	Area Loaded (cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
						534
SC/288	2.52	21-Jul-2022	28	225	124338	553
SC/288	2.48	21-Jul-2022	28	225	115974	515
SC/288	2.49	21-Jul-2022	28	225	120156	534
<p>Date of Casting: 23-Jun-2022 Cube Dimensions: 150*150*150 Location: R.C/Cutver Box Walls Station (61+477) Sec (1-2-3) Description: Mix</p>						
<p>Client: Karmesh Co Date: 21-Jul-2022 Batch Plant: Express File No.: 4800 Concrete Express Train - 15 May Sector</p>						
<p>MATERIALS AND CONSTRUCTION TESTING, S.A.E CONCRETE QUALITY CONTROL - DAILY REPORT Tel: 33448413 - Fax: 33031719 3 ABD EL-KAWY AHMED SL. MOHANDESEEN - GIZA</p>						

Rashed

**ARDAMAN SP. S.A.E**  
Reviewed by: Eng. Roudi Yehia  
Project Manager: Eng. Osama Mohab

Prepared by:

Remarks:

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Critical Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	526
SC/288	2.44	21-JUL-2022	28	225	119544	531		
SC/288	2.51	21-JUL-2022	28	225	120462	535		
SC/288	2.46	21-JUL-2022	28	225	115158	512		

Date of Casting: 23-Jun-2022 Cube Dimensions: 150\*150\*150

Location:	R/C/Culver Box Walls Station (61+477) Sec.(1-2-3)	C.45
Description:	Mtr	

Batch Plant: Express File No.: 4800 Client: Katamech Co Date: 21-JUL-2022

Electric Express Train - 15 May Sector CONCRETE QUALITY CONTROL - DAILY REPORT

Tel.: 33448413 - Fax: 33031719

3 ABD EL-KAWY AHMED ST. MOHANDESEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

**ARDAMAN SP. S.A.E**

# ARDAMAN SpH

## CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 15 May Sector

TEL : 33448413 - Fax : 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St., MOHANDESIEN - GIZA

Client: Katamech Co Date : 30-Jun-2022

Batch Plant: Express File No.: 4800

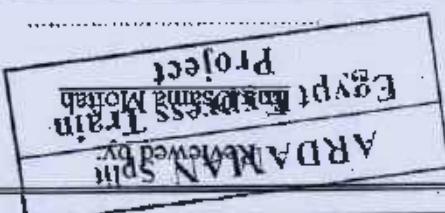
Description	Mix	Location :
R/C/Culvert Box Walls Station (61+477) Sec.(1-2-3)	C45	

Date of Casting:- 23-Jun-2022 Cube Dimensions : 150\*150\*150

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g/cm <sup>2</sup> )	Compressive Strength (K.g/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/288	2.40	30-Jun-2022	7	225	111588	496	484
SC/288	0.24	30-Jun-2022	7	225	105774	470	
SC/288	2.41	30-Jun-2022	7	225	109650	487	
SC/288							

Remarks:
----------

Prepared by:  
Eng. Roudi Yehia



# ARDAMAN Sp<sup>l</sup>l

**CONCRETE QUALITY CONTROL - DAILY REPORT**

**Electric Express Train - 15 May Sector**

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED St. - MOHANDSEEN - GIZA  
Tel: 33448413 - Fax: 33031719

Client: Kalamech Co  
Date : 30-Jun-2022  
Batch Plant: Express  
File No.: 4800

Description	Mr
R.C/Culvert Box Walls Station (61+477) Sec.(1-2-3)	C45

Date of Casting:- 23-Jun-2022 Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/288	2.40	30-Jun-2022	7	225	111180	494
SC/288	2.42	30-Jun-2022	7	225	112200	499
SC/288	2.40	30-Jun-2022	7	225	110160	490

ARDAMAN Sp<sup>l</sup>l  
Project  
Egyptian Express Train  
Prepared by:  
Eng. Roudy Yehia

# ARDAMAN SPIN

CONCRETE QUALITY CONTROL - DAILY REPORT

Tel: 33448413 - Fax: 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED ST., MOHANDISEEN - GIZA

Client: Katamech Co Date: 30-Jun-2022 File No.: 4800  
Batch Plant: Express

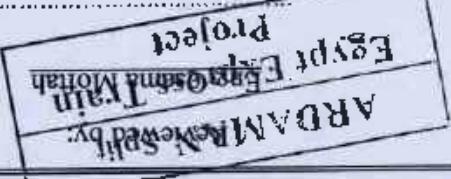
Description: Electric Express Train - 15 May Sector

Location: R.C/Culvert Box Wall Station (61+477) Sec(1-2-3)

Date of Casting: 23-Jun-2022 Cube Dimensions: 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Crushing Load (cm <sup>2</sup> )	Compressive Strength (K.g./cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	487
SC/288	2.41	30-Jun-2022	7	225	108936	484	
SC/288	2.40	30-Jun-2022	7	225	110058	489	
SC/288	2.41	30-Jun-2022	7	225	109650	487	

Remarks:
----------



Engr. Roudi Yehia

Prepared by:

<b>ARDAMAN Spilt</b> <b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>CONCRETE QUALITY CONTROL - DAILY REPORT</b> <b>Electric Express Train - 15 May Sector</b> <b>Tel. : 3346413 - Fax: 33031719</b> <b>3 ABD EL-KAWY AHMED ST., MOHANDSEEN - GIZA</b> <b>Client: Katamech Co</b> <b>Date: 15-Aug-2022</b> <b>Batch Plant: Express</b> <b>File No.: 4800</b> <b>Description</b> <b>R.C/Culvert Box Slab Station (61+477) Sec.(1)</b> <b>C45</b> <b>Location :</b> <b>Date of Casting:- 8-Aug-2022</b> <b>Cube Dimensions : 150*150*150</b>						
Code /den No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )
SC/493	2.45	15-Aug-2022	7	225	105366	468
SC/493	2.49	15-Aug-2022	7	225	107100	476
SC/493	2.47	15-Aug-2022	7	225	108732	483
						476
<b>ARDAMAN Spilt</b> <b>Egypt Express Train Quality Control Project</b> <b>Prepared by:</b> <b>Eng. Roudi Yehia</b> <b>Reviewed by:</b> <b>Eng. Roudi Yehia</b>						
Remarks:						

**CONCRETE QUALITY CONTROL - DAILY REPORT**

**Electric Express Train - 15 May Sector**

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3ABD EL-KAWY AHMED ST., MOHANDESIEN - GIZA  
Tel: 33448413 - Fax: 33031719

Description	Max
R.C Culvert Box Slab Station (61+47) Sec.(1)	C45

Location :	
------------	--

Client: Kaltmesh Co Date : 15-Aug-2022 File No.: 4800 Batch Plant: Express

Electric Express Train - 15 May Sector

Code Teste	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	Remarks:
SC/493	2.43	15-Aug-2022	7	225	104652	465	482	
SC/493	2.45	15-Aug-2022	7	225	111282	495		
SC/493	2.47	15-Aug-2022	7	225	109650	487		
SC/493	2.43	15-Aug-2022	7	225	104652	465		

Date of Casting:- 8-Aug-2022 Cube Dimensions : 150\*150\*150

ARDAMAN Spilt							
Egypt Express Train	Reviewed by	Eng.Osama Majeed	Prepared by:	Eng.Rouadi Yehia	Red		
A.R.D.A.M.A.N Spilt							

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED ST. - MOHANDISEEN - GIZA  
TEL : 33448413 - FAX : 33031719

Electric Express Train - 15 May Sector

Client: Katamess Co Date: 13-Aug-2022

SEARCH PUBLICATIONS

Page 1 of 1

Location :	Description	
C-45	R/C/Culvert Box Slab Station (61+477) Sec.(1)	

Code No.	Unit Weight (kg/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	487
SC/493	2.46	15-Aug-2022	7	225	110058	489		
SC/493	2.48	15-Aug-2022	7	225	111282	495		
SC/493	2.44	15-Aug-2022	7	225	107712	479		

<p style="text-align: center;"><b>CONCRETE QUALITY CONTROL - DAILY REPORT</b></p> <p><b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b></p> <p>Tel.: 33448413 - Fax: 33031719</p> <p>3 ABD EL-KAWY AHMED SC., MOHANDESEN - GIZA</p> <p><b>Electric Express Train - 15 May Sector</b></p> <p><b>Description</b></p> <p>R.C/Culvert Box Slab Station (61+477) Sec.(1)</p> <p><b>Location :</b></p> <p>Date : 15-Aug-2022</p> <p>Batch Plan: Express</p> <p>File No.: 4800</p> <p><b>Client: Kattamash Co</b></p> <p><b>Cube Dimensions : 150*150*150</b></p> <p><b>Date of Casting:</b> 8-Aug-2022</p> <p><b>Table 1: Compressive Strength Test Results</b></p> <table border="1"> <thead> <tr> <th>Code No.</th><th>Unit Weight (gm/cm³)</th><th>Date Of Testing</th><th>Age of Cube (days)</th><th>Area Loaded (cm²)</th><th>Crushing Load (kg/cm²)</th><th>Compressive Strength (kg/cm²)</th><th>Average of Compressive Strength (kg/cm²)</th><th>Test No.</th></tr> </thead> <tbody> <tr> <td>SC/493</td><td>2.49</td><td>15-Aug-2022</td><td>7</td><td>225</td><td>107100</td><td>476</td><td></td><td>468</td></tr> <tr> <td>SC/493</td><td>2.47</td><td>15-Aug-2022</td><td>7</td><td>225</td><td>108732</td><td>483</td><td></td><td></td></tr> <tr> <td>SC/493</td><td>2.45</td><td>15-Aug-2022</td><td>7</td><td>225</td><td>105366</td><td>476</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>476</td><td></td></tr> </tbody> </table> <p><b>Remarks:</b></p> <p><b>Prepared by:</b> Eng. Rami Yehia</p> <p><b>Reviewed by:</b> Eng. Gamal Mafrah</p> <p><b>Approved by:</b> Eng. Gamal Mafrah</p>							Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	Test No.	SC/493	2.49	15-Aug-2022	7	225	107100	476		468	SC/493	2.47	15-Aug-2022	7	225	108732	483			SC/493	2.45	15-Aug-2022	7	225	105366	476										476	
Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	Test No.																																											
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							476																																												

# ARDAMAN S.p.lit

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
CONCRETE QUALITY CONTROL - DAILY REPORT  
Electric Express Train - 15 May Sector

Tel : 33448413 - Fax : 33031719

3 ABD EL-KAWY AHMED ST - MOHANDESIEN - GIZA

Clinic Karmesh Co  
Batch Plant: Express  
File No.: 4800  
Date : 15-Aug-2022

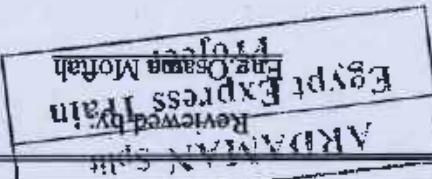
Location :	R.C/Culvert Box Slab Station (61+477) Sec.(1)	G.45
	Description	Mtx

Date of Casting:- 8-Aug-2022 Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive Strength (K.g./cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	487
SC/493	2.46	15-Aug-2022	7	225	119058	489		
SC/493	2.48	15-Aug-2022	7	225	111282	495		
SC/493	2.44	15-Aug-2022	7	225	107712	479		
SC/493	2.46	15-Aug-2022	7	225	110058	489		

Remarks:
----------

Prepared by:  
Eng. Roudy Yehia



Road

Project Name	Egyptian Express Train
Reviewed by:	ABD EL-KAWY AHMED S1.
Approved by:	ARDAMAN SpH

*Ram*  
Eng. Roudy Yehia  
Prepared by:

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )
SC/493	2.43	15-Aug-2022	7	225	104652	465
SC/493	2.45	15-Aug-2022	7	225	111282	495
SC/493	2.47	15-Aug-2022	7	225	109650	487
					Average of Compressive Strength (kg/cm <sup>2</sup> )	482

Date of Casting:- 8-Aug-2022 Cube Dimensions : 150\*150\*150

Location :	R.C/Culverin Box Slab Station (61+477) Sec.(I)	C.45
Description	Mtr	
Client: Katamech Co	Date : 15-Aug-2022	Batch Plant: Express File No.: 4800
CONCRETE QUALITY CONTROL - DAHY REPORT		
Electric Express Train - 15 May Sector		
MATERIALS AND CONSTRUCTION TESTING, S.A.E		
3ABD EL-KAWY AHMED S1. MOHANDESSEN - GIZA		
Tel: 3348413 - Fax: 33031719		
ARDAMAN SpH		

<b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>CONCRETE QUALITY CONTROL - DAHLY REPORT</b> <b>Electric Express Train - 15 May Sector</b> <b>Tel.: 33448413 - Fax.: 33031719</b> <b>3 ABD EL-KAWY AHMED SA., MOHANDESEEEN - GIZA</b>												
<b>ARDAMAN S.P.L</b>												
<b>Client: Katamech Co</b> <b>Date : 1-Sep-2022</b> <b>Batch Plant: M.G. Mix</b> <b>File No.: 4800</b> <b>Description</b> <b>P.C/Culvert Box Wring Up Station (61+477)</b> <b>Location :</b> <b>C25</b>												
<b>Date of Casting:- 4-Aug-2022</b> <b>Cube Dimensions : 150*150*150</b>												
<b>Code Item No.</b>	<b>Unit Weight (gm/cm<sup>3</sup>)</b>	<b>Date Of Testing</b>	<b>Age of Cube (days)</b>	<b>Crushing Load (kg/cm<sup>2</sup>)</b>	<b>Compressive Strength (kg/cm<sup>2</sup>)</b>	<b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b>						
						SC/481	2.54	1-Sep-2022	28	225	71502	318
						SC/481	2.51	1-Sep-2022	28	225	75276	335
						SC/481	2.48	1-Sep-2022	28	225	79152	352
												335
<b>Remarks:</b>												

# ARDAMAN Sp<sup>l</sup>it

CONCRETE QUALITY CONTROL - DAILY REPORT	
Electric Express Train - 15 May Sector	
Client: Kadarmesh Co	
Date: 11-Aug-2022	
Batch Plant: M.G Mix	
File No.: 4800	
P.C/Culver Box Wring Up Station (61+477)	
Location:	
Description	Mr.
Cube Dimensions : 150*150*150	
Date of Casting: 4-Aug-2022	

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Cruising Load (K.g/cm <sup>2</sup> )	Compressive Strength (K.g/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	Remarks:
SC/481	2.47	11-Aug-2022	7	225	62220	277	274	
SC/481	2.45	11-Aug-2022	7	225	62628	278		
SC/481	2.46	11-Aug-2022	7	225	60078	267		
SC/481	2.47	11-Aug-2022	7	225	62220	277		

ARDAMAN Sp <sup>l</sup> it Reviewed by:	Egypt Express Project
Egypt Express Project Quality Manager	Engr. Roudi Yehia
Prepared by:	

Eng. Roudi Yehia  
Prepared by:

ARDAMAN Sp<sup>l</sup>it  
Reviewed by Egypt Express Train  
Engineering Motorach

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Cruising Load (K.g./cm <sup>2</sup> )	Compressive Strength (K.g./cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	420
SC/542	2.38	24-Aug-2022	7	225	103122	458		
SC/542	2.38	24-Aug-2022	7	225	90984	404		
SC/542	2.40	24-Aug-2022	7	225	89556	398		

Date of Casting: 17-Aug-2022 Cube Dimensions : 150\*150\*150

Location :	R.C/Culvert Box Station (61+057) L&R	C45
Description	Mix	

Client: Katameesh Co	Date : 24-Aug-2022	Batch Plant: M.G Mix	File No.: 4800
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CONCRETE QUALITY CONTROL - DAILY REPORT	ELECTRIC EXPRESS TRAIN - 15 May Sector
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3 ABD EL-KAWY AHMED St. MOHANDESEEN - GIZA Tel: 33448413 - Fax: 33031719	MATERIALS AND CONSTRUCTION TESTING, S.A.E
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ARDAMAN Sp<sup>l</sup>it

Prepared by:

Eng. Roudi Yehia

Project

Egypt Express Train  
Line 6-Sixth of October Metro  
ARDAMAN Spie  
Reviewed by:

Remarks:

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushings Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	378
SC/588	2.45	31-Aug-2022	7	225	85986	382		
SC/588	2.49	31-Aug-2022	7	225	91290	406		
SC/588	2.50	31-Aug-2022	7	225	78030	347		

Date of Casting: 24-Aug-2022 Cube Dimensions: 150\*150\*150

Location:	R.C/Culvert Box Wing Wall Station (61+477)	C.45
Description:	Mix	

Batch Plant: MG Mix File No.: 4800  
Client: Katamech Co Date: 31-Aug-2022

### Electric Express Train - 15 May Sector

### CONCRETE QUALITY CONTROL - DAILY REPORT

Tel: 33448413 - Fax: 33031719

3 ABD EL-KAWY AHMED St., MOHANDISEEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

ARDAMAN Spie

Prepared by:  
Eng. Roudi Yehia

ARDAMAN SPLIT  
ARDA MAN SPLIT  
EGYPT EXPRESS TRAIN  
EGYPT EXPRESS TRAIN  
EGYPT EXPRESS TRAIN

Remarks:

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushing Load (kg/cm²)	Compressive Strength (kg/cm²)	Average of Compressive Strength (kg/cm²)	540
SC/588	2.48	21-Sep-2022	28	225	120972	538		
SC/588	2.46	21-Sep-2022	28	225	124338	553		
SC/588	2.46	21-Sep-2022	28	225	119442	531		

Date of Casting:- 24-Aug-2022 Cube Dimensions : 150\*150\*150

Location :	R/C/Culvert Box Wing Wall Station (61+477)	C45
Description	Mix	
Batch Plant: M.G Mix	File No.: 4800	
Client: Kalamech Co	Date : 21-Sep-2022	
Electric Express Train - 15 May Sector		
CONCRETE QUALITY CONTROL - DAILY REPORT		
3 ABD EL-KAWY AHMED SL . MOHANDESEEN - GIZA	Tel : 33448413 - Fax : 33031719	
MATERIALS AND CONSTRUCTION TESTING, S.A.E		
ARDAMAN SPLIT		

ARDAMAN Split  
 The Quality Monitor  
 Egypt Express Train  
 Project

Eng. Roudi Yehia  
 Prepared by:

						Remarks:
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Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (Kg/cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	519
SC/542	2.47	14-Sep-2022	28	225	115668	514		
SC/542	2.49	14-Sep-2022	28	225	116892	520		
SC/542	2.45	14-Sep-2022	28	225	117810	524		

Date of Casting:- 17-Aug-2022 Cube Dimensions : 150\*150\*150

Description	Mix
R.C/Culvert Box Station (61+057) L&R	C45

Batch Plant: M.G. Mix	File No.: 4800
Client: Katamech Co	Date : 14-Sep-2022

CONCRETE QUALITY CONTROL - DAILY REPORT	
Electric Express Train - 15 May Sector	

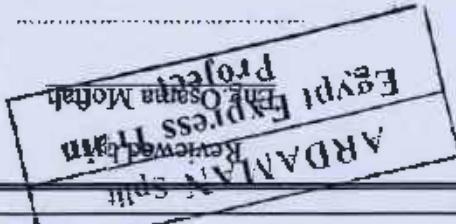
TEL : 33448413 - FAX : 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED St. MOHANDISEEN - GIZA

ARDAMAN Split



Prepared by:  
Eng. Roudi Yehia



Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (Kg/cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	280
SC/106	2.40	27-Apr-2022	7	225	58854	262		
SC/106	2.43	27-Apr-2022	7	225	65280	290		
SC/106	2.41	27-Apr-2022	7	225	65076	289		

Date of Casting:- 20-Apr-2022 Cube Dimensions : 150\*150\*150

Description:	hdx
Location:	C25

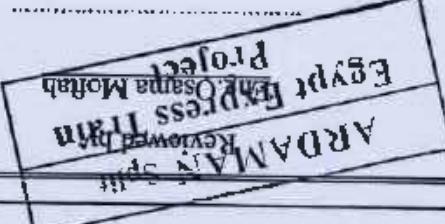
Batch Plant Number	4800
Date:	27-Apr-2022

Quality Control Department	14031719
Date:	14-3-2023

Address	34020 GIZA - MOA AND DEBBEL - GIZA
Date:	14-3-2023

ARDAMAH SPLIT

Prepared by:  
Eng. Roudi Yehia



Remarks:

Code No.	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Cubicling Area Loaded (cm²)	Compressive Load (kg/cm²)	Average of Compressive Strength (kg/cm²)	336
SC/106	2.41	18-May-2022	28	225	82620	367	
SC/106	2.49	18-May-2022	28	225	71910	320	
SC/106	2.47	18-May-2022	28	225	72430	322	

Date of Testing:- 20-Aug-2022 Cube Dimensions : 150\*150\*150

Description	Max
P/C/Cubelot (61+477)	C25
Location	
Batch No. & Bagger	4800
Code No. 18-May-2022	
Concrete Express Train - 15 Age Sector	
CONCRETE QUALITY CONTROL - DAILY REPORT	
TEL: 3443413 - FAX: 3404177	
3ABD EL-KAVY ALTAIED S.L. - MOULAD DESINI - GIZA	
MATERIALS AND CONSTRUCTION TESTING S.A.E	
ARDAMAN Sp. JSC	

Project  
Egypt-Lapress Unit  
ARDAMAN SpH

Eng. Roudi Yehia  
Eng. Osama Mohsen

Prepared by:

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	
						Date	No.
SC/794	2.48	26-Oct-2022	7	225	107100	476	467
SC/794	2.49	26-Oct-2022	7	225	102102	454	
SC/794	2.49	26-Oct-2022	7	225	106080	471	

Date of Casting:- 19-Oct-2022 Cube Dimensions : 150\*150\*150

Description	Mix
R.C/Culvert Box Station (93+617) Sec.(1-3)	C45
Location :	
Batch Plant: Reliance	File No.: 4800
Client: Karamech Co	Date : 26-Oct-2022
Electric Express Train - 15 May Sector	

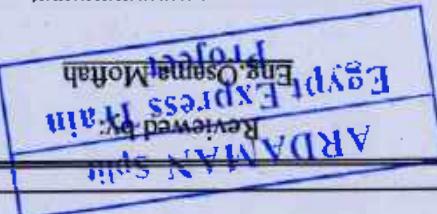
### CONCRETE QUALITY CONTROL - DAILY REPORT

Tel: 33448413 - Fax: 33031719

3 ABD EL-KAWY AHMED St. MOHANDESEEN - GIZA

MATERIALS AND CONSTRUCTION TESTING, S.A.E

ARDAMAN SpH

																																																		
Name: Roudi Yehia Prepared by: Eng. Osama Mohsen																																																		
<b>Remarks:</b>     																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6"></th> <th>Average of Compressive Strength (kg/cm²)</th> <th>478</th> </tr> <tr> <th>Code Test</th> <th>Unit Weight (gm/cm³)</th> <th>Date Of Testing</th> <th>Age of Cube (days)</th> <th>Area Loaded (cm²)</th> <th>Crushig Load (kg./cm²)</th> <th>Compressive Strength (kg./cm²)</th> </tr> </thead> <tbody> <tr> <td>SC/794</td> <td>2.55</td> <td>26-Oct-2022</td> <td>7</td> <td>225</td> <td>102408</td> <td>455</td> </tr> <tr> <td>SC/794</td> <td>2.52</td> <td>26-Oct-2022</td> <td>7</td> <td>225</td> <td>108120</td> <td>481</td> </tr> <tr> <td>SC/794</td> <td>2.57</td> <td>26-Oct-2022</td> <td>7</td> <td>225</td> <td>112098</td> <td>498</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>														Average of Compressive Strength (kg/cm²)	478	Code Test	Unit Weight (gm/cm³)	Date Of Testing	Age of Cube (days)	Area Loaded (cm²)	Crushig Load (kg./cm²)	Compressive Strength (kg./cm²)	SC/794	2.55	26-Oct-2022	7	225	102408	455	SC/794	2.52	26-Oct-2022	7	225	108120	481	SC/794	2.57	26-Oct-2022	7	225	112098	498							
						Average of Compressive Strength (kg/cm²)	478																																											
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Date of Casting: 19-Oct-2022 Cube Dimensions: 150*150*150																																																		
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Location :																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Client: Karmes Co</td> <td>Date: 26-Oct-2022</td> <td>Batch Plant Reference</td> <td>File No.: 4800</td> </tr> <tr> <td colspan="4">Electric Express Train - 15 May Sector</td> </tr> </table>								Client: Karmes Co	Date: 26-Oct-2022	Batch Plant Reference	File No.: 4800	Electric Express Train - 15 May Sector																																						
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Tel.: 33448413 • Fax: 33031719																																																		
<b>ARDAMAN SPLIT</b>																																																		

Eg. No. : 33031719  
Revived by :  
ARDAMAN Spill

Eng. Roudi Yehia  
Prepared by :

							Remarks:
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Code Label No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	294
SC/384	2.49	25-JUL-2022	7	225	70176	312		
SC/384	2.51	25-JUL-2022	7	225	61608	274		
SC/384	2.53	25-JUL-2022	7	225	66504	296		

Date of Casting:-	18-JUL-2022	Cube Dimensions : 150*150*150
Location :	P.C/Culvert Box Station (93+617)	C25

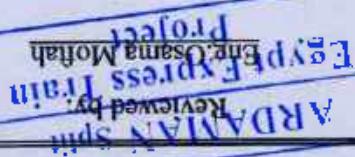
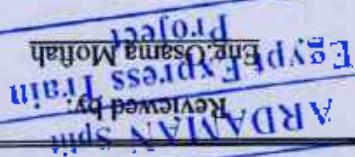
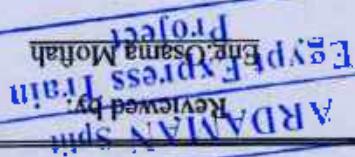
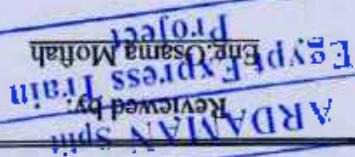
Client: Kartmesh Co	Date : 25-JUL-2022	File No.: 4800
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CONCRETE QUALITY CONTROL - DAILY REPORT		
Electric Express Train - 15 May Sector		

MATERIALS AND CONSTRUCTION TESTING, S.A.E		
3 ABD EL-KAWY AHMED SL., MOHANDESIEN - GIZA Tel: 33448413 - Fax: 33031719		

**ARDAMAN Spill**

<b>ARDAMAN Split</b> <b>MATERIALS AND CONSTRUCTION TESTING, S.A.E</b> <b>CONCRETE QUALITY CONTROL - DAILY REPORT</b> <b>Electric Express Train - 15 May Sector</b> <b>Client: Kamemes Co</b> <b>Date: 15-Aug-2022</b> <b>Batch Plant: UNIMIX</b> <b>File No.: 4800</b> <b>Location: P.C/Culvert Box Station (93+617)</b> <b>Cube Dimensions : 150*150*150</b> <b>Date of Casting:- 18-Jul-2022</b>						
Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Load (cm <sup>2</sup> )	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )
SC/384	2.42	15-Aug-2022	28	225	73134	325
SC/384	2.42	15-Aug-2022	28	225	80988	360
SC/384	2.43	15-Aug-2022	28	225	78846	350
					Average of Compressive Strength (kg/cm <sup>2</sup> )	345
Remarks:						

Eng. Roudal Yehia

Prepared by:

Remarks:

EGYPT EXPRESS TRAIN  
Reviewed by Other  
AKDAMAN Split

Code Item No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (Kg/cm <sup>2</sup> )	Compressive Strength (Kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	448
SC/777	2.44	22-Oct-2022	7	225	100266	446		
SC/777	2.41	22-Oct-2022	7	225	104550	465		
SC/777	2.40	22-Oct-2022	7	225	97920	435		

Date of Casting:- 15-Oct-2022 Cube Dimensions : 150\*150\*150

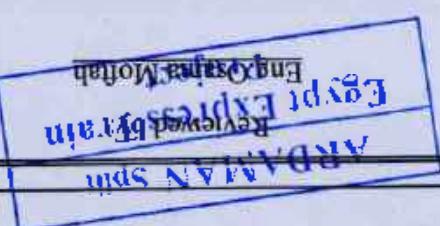
Client: Karamesh Co	Date : 22-Oct-2022	Batch Plant Reference	File No.: 4800
Electric Express Train - 15 May Sector		R/C Culvert Box Station (93+617) Sec.(2)	
Description	Mix	Location	C45

CONCRETE QUALITY CONTROL - DAILY REPORT

3 ABD EL-KAWY AHMED ST., MOHANDSEEN - GIZA  
TEL: 33448413 - Fax: 33031719

MATERIALS AND CONSTRUCTION TESTING, S.A.E

ARDAMAN Split



Egypt, Rosadi Yehia

Prepared by:

Remarks:

Code No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (kg/cm <sup>2</sup> )	Compressive Strength (kg/cm <sup>2</sup> )	Average of Compressive Strength (kg/cm <sup>2</sup> )	457
SC/777	2.41	22-Oct-2022	7	225	99246	441		
SC/777	2.39	22-Oct-2022	7	225	103122	458		
SC/777	2.37	22-Oct-2022	7	225	105978	471		

Date of Casting:- 15-Oct-2022 Cube Dimensions : 150\*150\*150

Client: Karamesh Co	Date : 22-Oct-2022	Batch Plant: Reliance	File No.: 4800
Electric Express Train - 15 May Sector		R/C/Culvert Box Station (93+617) Sec.(2)	
Description	Mtr	Location :	
C45			

# نتائج تكسير المكعبات

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## **ARDAMAN Split**

### **MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED ST . MOHANDEEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

### **CONCRETE QUALITY CONTROL - DAILY REPORT**

#### ***Electric Express Train -15 May Sector***

Client: Katamesh Co

Date : 25-Jul-2022

Batch Plant: UNIMIX

File No.: 4800

Location :	Description	Mix
	P.C/Culvert Box Station (93+617)	C.25

Date of Casting:- 18-Jul-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/384	2.53	25-Jul-2022	7	225	66504	296
SC/384	2.51	25-Jul-2022	7	225	61608	274
SC/384	2.49	25-Jul-2022	7	225	70176	312
Average of Compressive Strength (kg/cm <sup>2</sup> )					294	

Remarks:

Prepared by:

Eng. Roudi Yehia

ARDAMAN Split

Egypt Rep. of Egypt's Train  
Eng. Osama Mohab

## ARDAMAN Split

### MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED ST. . MOHANDEESEN - GIZA

Tel.: 33448413 - Fax.: 33031719

### CONCRETE QUALITY CONTROL - DAILY REPORT

#### Electric Express Train -15 May Sector

Client: Katameh Co

Date : 15-Aug-2022

Batch Plant: UNIMIX

File No.: 4800

Location :	Description	Mix
	P.C/Culvert Box Station (93+617)	C.25

Date of Casting:- 18-Jul-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/384	2.43	15-Aug-2022	28	225	78846	350
SC/384	2.42	15-Aug-2022	28	225	80988	360
SC/384	2.42	15-Aug-2022	28	225	73134	325

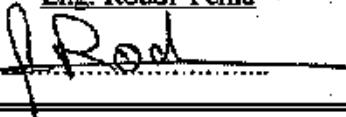
Average of Compressive Strength (kg/cm<sup>2</sup>)

345

<u>Remarks:</u>	
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Prepared by:

Eng. Roudi Yehia



ARDAMAN Split
Reviewed by
Egypt Express Train
Eng. Osama Mostah
Project

# ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 26-Oct-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix <i>W/C = 0.45</i>
	R.C/Culvert Box Station (93+617)	

Date of Casting:- 19-Oct-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/794	2.57	26-Oct-2022	7	225	112098	498
SC/794	2.52	26-Oct-2022	7	225	108120	481
SC/794	2.55	26-Oct-2022	7	225	102408	455
<b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b>					<b>478</b>	

Remarks:

Prepared by:

Eng. Roudi Yehia

ARDAMAN Split  
Reviewed by:  
Eng. Osama Mofleh  
Egypt Electric Train  
Project

# ARDAMAN Split

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St. , MOHANDESEEN - GIZA

Tel : 33448413 - Fax : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 26-Oct-2022

Batch Plant: Reliance

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Station (93+617)	C.45

Date of Casting:- 19-Oct-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/794	2.49	26-Oct-2022	7	225	106080	471
SC/794	2.49	26-Oct-2022	7	225	102102	454
SC/794	2.48	26-Oct-2022	7	225	107100	476

Average of Compressive Strength (kg/cm<sup>2</sup>)

467

Remarks:

Prepared by:

Eng. Roudi Yekia

Reviewed by:

Eng. Osama M. N. Split  
ARDAMAN Split  
Egypt Express Train  
Project

# ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED ST. , MOHANDEESEN - GIZA

Tel. : 33448413 - Fax : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 16-Nov-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(1-3)	<u>C.45</u>

Date of Casting:- 19-Oct-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/794	2.19	16-Nov-2022	28	225	123420	549
SC/794	2.32	16-Nov-2022	28	225	121380	539
SC/794	2.35	16-Nov-2022	28	225	125766	559

Average of Compressive Strength (kg/cm<sup>2</sup>) **549**

<u>Remarks:</u>	
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Prepared by:

Eng. Roudy Yelou

Reviewed by:

Eng. Osama Mousallem  
ARDAMAN Split  
Egypt Express Train  
Project

# ARDAMAN Split

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St . MOHANDEEEN - GIZA

Tel . 33448413 - Fax. : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 16-Nov-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(1-3)	<u>C.45</u>

Date of Casting:- 19-Oct-2022

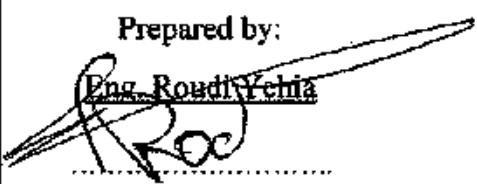
Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/794	2.27	16-Nov-2022	28	225	125562	558
SC/794	2.23	16-Nov-2022	28	225	115668	514
SC/794	2.40	16-Nov-2022	28	225	125154	556

Average of Compressive Strength (kg/cm<sup>2</sup>) 543

<u>Remarks:</u>	
-----------------	--

Prepared by:

Eng. Roudy Yehia  


Reviewed by:

Eng. Osama Mostah  
Egypt Express Train  
Project

# ARDAMAN Split

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St. , MOHANDEESEN - GIZA

Tel. : 33448413 - Fax. : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 22-Oct-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(2)	C.45

Date of Casting:- 15-Oct-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/777	2.37	22-Oct-2022	7	225	105978	471
SC/777	2.39	22-Oct-2022	7	225	103122	458
SC/777	2.41	22-Oct-2022	7	225	99246	441

Average of Compressive Strength (kg/cm<sup>2</sup>) 457

<u>Remarks:</u>	
-----------------	--

Prepared by:

Eng. Roudi Yehia

# ARDAMAN Split

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St. , MOHANDEESEN - GIZA

Tel. : 33448413 - Fax. : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 22-Oct-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(2)	<u>C.45</u>

Date of Casting:- 15-Oct-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/777	2.40	22-Oct-2022	7	225	97920	435
SC/777	2.41	22-Oct-2022	7	225	104550	465
SC/777	2.44	22-Oct-2022	7	225	100266	446
Average of Compressive Strength (kg/cm <sup>2</sup> )					448	

Remarks:

Prepared by:

Eng. Roudi Yehia

ARDAMAN Review by:  
Egypt Express Train Project Eng. Osama Mostah

# ARDAMAN Split

## **MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED St. MOHANDEESEN - GIZA

Tel.: 33448413 - Fax.: 33031719

### **CONCRETE QUALITY CONTROL - DAILY REPORT**

#### **Electric Express Train -15 May Sector**

Client: Katamesh Co

Date : 12-Nov-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(2)	<u>C.45</u>

Date of Casting:- 15-Oct-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/777	2.48	12-Nov-2022	28	225	118218	525
SC/777	2.42	12-Nov-2022	28	225	120972	538
SC/777	2.38	12-Nov-2022	28	225	124032	551

Average of Compressive Strength (kg/cm<sup>2</sup>) 538

<u>Remarks:</u>	
-----------------	--

Prepared by:

Eng. Roudi Yehia

Reviewed by:  
**ARDAMAN SPLIT**  
 Eng. Osama M. Fah  
**Egypt Express Project**

# ARDAMAN Split

## **MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED St. , MOHANDEESEN - GIZA

Tel. : 33448413 - Fax. : 33031719

### **CONCRETE QUALITY CONTROL - DAILY REPORT**

#### **Electric Express Train -15 May Sector**

Client: Katamesh Co

Date : 12-Nov-2022

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Station (93+617) Sec.(2)	<u>C.45</u>

Date of Casting:- 15-Oct-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/777	2.42	12-Nov-2022	28	225	117606	523
SC/777	2.42	12-Nov-2022	28	225	128724	572
SC/777	2.39	12-Nov-2022	28	225	123726	550
Average of Compressive Strength (kg/cm <sup>2</sup> )						548

<u>Remarks:</u>	
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Prepared by:

Eng. Roudi Yehia

ARDAMAN Split

Egypt Engr. Optics & Moltah

Project

# ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING, S.A.E**

3 ABD EL-KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax : 33031719

## **CONCRETE QUALITY CONTROL - DAILY REPORT**

### ***Electric Express Train -15 May Sector***

Client: Katamash Co

Date : 23/Nov/2022

Batch Plant: EMA COM

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Walls Station (93+617)	C.45

Date of Casting:- 16/Nov/2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/886	2.57	23/Nov/2022	7	225	107508	478
SC/886	2.56	23/Nov/2022	7	225	115260	512
SC/886	2.50	23/Nov/2022	7	225	110466	491

Average of Compressive Strength (kg/cm<sup>2</sup>) 494

<u>Remarks:</u>	
-----------------	--

Prepared by:

Eng. Roudi Vehia

Reviewed by:

Eng. Osama Moftah

# ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING, S.A.E**

**3 ABD EL-KAWY AHMED St. , MOHANDESEEN - GIZA**

**Tel. : 33448413 - Fax. : 33031719.**

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katameh Co

Date : 14-Dec-2022

Batch Plant: EMA COM

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Walls Station (93+617)	

Date of Casting:- 16-Nov-2022

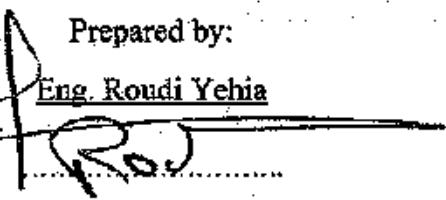
Cube Dimensions : 150\*150\*150

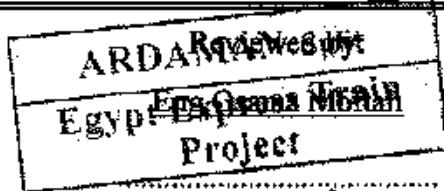
Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/886	2.48	14-Dec-2022	28	225	124440	553
SC/886	2.51	14-Dec-2022	28	225	123216	548
SC/886	2.47	14-Dec-2022	28	225	121380	539
<b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b>						<b>547</b>

Remarks:

Prepared by:

Eng. Roudi Yehia





# ARDAMAN Split

**MATERIALS AND CONSTRUCTION TESTING, S.A.E**  
**3 ABD EL-KAWY AHMED St., MOHANDEESEN - GIZA**  
**Tel : 33448413 - Fax : 33031719**

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 19-Nov-2022

Batch Plant: EMA COM

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Walls Station (93+617) Segment (2)	C.45

Date of Casting:- 12-Nov-2022

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g/cm <sup>2</sup> )	Compressive (K.g/cm <sup>2</sup> )
SC/870	2.59	19-Nov-2022	7	225	104550	465
SC/870	2.53	19-Nov-2022	7	225	111180	494
SC/870	2.51	19-Nov-2022	7	225	103020	458

Average of Compressive Strength (kg/cm<sup>2</sup>)

472

Remarks:

Prepared by:

Eng. Roudi Yehia

Reviewed by:

Eng. Osama Moffah

ARDAMAN Split  
 Egypt Express Train  
 Project

# ARDAMAN Split

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED St. , MOHANDEESEN - GIZA

Tel. : 33448413 - Fax. : 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train -15 May Sector

Client: Katamesh Co

Date : 10-Dec-2022

Batch Plant: EMA COM

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Walls Station (93+617) Segment (2)	<u>C.45</u>

Date of Casting:- 12-Nov-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/870	2.39	10-Dec-2022	28	225	115872	515
SC/870	2.31	10-Dec-2022	28	225	114750	510
SC/870	2.40	10-Dec-2022	28	225	115464	513
<b>Average of Compressive Strength (kg/cm<sup>2</sup>)</b>					<b>513</b>	

<u>Remarks:</u>	
-----------------	--

Prepared by:

Eng. Roudi Yehia

ARDAMAN Split

Reviewed by:

Egypt Express Train  
Eng. Osama Mofah  
Project

**AROAMAN S.A.E**

**MATERIALS AND CONSTRUCTION TESTING S.A.E**

**3 ABD EL-KAWY AHMED ST . MOHANEESEEN - GIZA**

**Tel : 33448413 - Fax : 33031719**

**CONCRETE QUALITY CONTROL - DAILY REPORT**

**Electric Express Train - 15 May Sector**

**Client: Katameh Co**

**Date : 24-Dec-2022**

**Batch Plant: EMA COM**

**File No.: 4800**

	Description	Mix
Location :	R.C/Culvert Box Slab Station (93+617) B.(1-3)	<u>C.45</u>

**Date of Casting:-**

**17-Dec-2022**

**Cube Dimensions : 150\*150\*150**

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g/cm <sup>2</sup> )	Compressive (K.g/cm <sup>2</sup> )
SC/996	2.57	24-Dec-2022	7	225	110874	493
SC/996	2.52	24-Dec-2022	7	225	105468	469
SC/996	2.55	24-Dec-2022	7	225	97920	435

**Average of Compressive Strength (kg/cm<sup>2</sup>)**

**466**

**Remarks:**

**Prepared by:**

**Eng. Roudi Yehia**

**Reviewed by:**

**Eng. Ossama Mofat**

**AROAMAN  
Egypt Express Train  
Project**

ARDAN Spilt

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ABD EL-KAWY AHMED ST., MOHANDEESEN - GIZA  
Tel.: 33448013 - Fax.: 33031719

CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 15 May Sector

Client: Kafamesh Co

Date : 14-Jan-2023

Batch Plant: EMA COM

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Slab Station (93+617) B.(1-3)	C.45

Date of Casting:- 17-Dec-2022

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm3)	Date Of Testing	Age of Cube (days)	Area Loaded (cm2)	Crushing Load (K.g./cm2)	Compressive (K.g./cm2)
SC/996	2.52	14-Jan-2023	28	225	124032	551
SC/996	2.54	14-Jan-2023	28	225	117198	521
SC/996	2.54	14-Jan-2023	28	225	130050	578

Average of Compressive Strength (kg/cm2)

550

Remarks:

Prepared by:

Eg. Roudi Yehia

Reviewed by:  
Eng. Osama Mefah  
ARDAN Spilt  
Egypt Express Train Project

# ARDAMAN S.C.T

## MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 AED EL-KAWY AHMED ST., MOHANDEESEN - GIZA

Tel.: 33448413 - Fax.: 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train - 15 May Sector

Client: Katameh Co

Date : 15-Jan-2023

Batch Plant: Reliance

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Slab Station (93+617) B.(2)	C.45

Date of Casting:-

9-Jan-2023

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g/cm <sup>2</sup> )	Compressive (K.g/cm <sup>2</sup> )
SC/1078	2.49	16-Jan-2023	7	225	98736	439
SC/1078	2.47	16-Jan-2023	7	225	108324	481
SC/1078	2.41	16-Jan-2023	7	225	100776	448

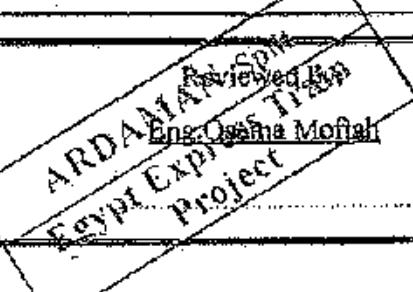
Average of Compressive Strength (kg/cm<sup>2</sup>)

456

Remarks:

Prepared by:

Eng. Roudi Yehia



ARDABAKH Split

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
JASDEL-KAWY AHMED ST., MOHANDEESEN - GIZA  
Tel.: 33443413 - Fax.: 33031719

CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 15 May Sector

Client: Karamesh Co

Date : 6-Feb-2023

Batch Plant: Reliance

File No.: 4800

Location :	Description	Mix
	R.C/Culvert Box Slab Station (93+617) B.(2)	C.45

Date of Casting:-

9-Jan-2023

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/1078	2.46	6-Feb-2023	28	225	113628	505
SC/1078	2.47	6-Feb-2023	28	225	121380	539
SC/1078	2.47	6-Feb-2023	28	225	123318	548

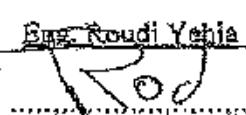
Average of Compressive Strength (kg/cm<sup>2</sup>)

531

Remarks:

Prepared by:

Egypt Express Train

Roudi Yehia

ARDABAKH Split  
Reviewed by:  
Egypt Express Train  
Project  
Eng. Osama Mostah

# ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 AED EL-KAWY AHMED ST., MOHANDESEIN - GIZA  
Tel.: 33448413 - Fax.: 33034719

## CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 15 May 2023

Client: Katameh Co

Date : 29-Jan-2023

Batch Plant: Reliance

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Station (93+617) Wing (L&R)	C.45

Date of Casting:-

22-Jan-2023

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/1107	2.55	29-Jan-2023	7	225	102000	453
SC/1107	2.44	29-Jan-2023	7	225	107814	479
SC/1107	2.48	29-Jan-2023	7	225	103734	461

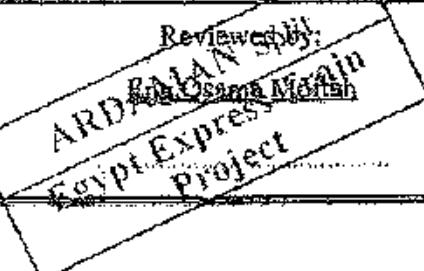
Average of Compressive Strength (kg/cm<sup>2</sup>)

465

Remarks:

Prepared by:

Eng. Roudi Yehia



ARDAM AL CO.

MATERIALS AND CONSTRUCTION TESTING, S.A.E  
3 ARDAB KAWY AHMED ST. , MOHANDEESEN - GIZA  
Tel. : 33448413 - Fax. : 33031719

CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 13 Vice Sector

Client: Katameh Co

Date : 29-Jan-2023

Batch Plant: Reliance

File No.: 4800

Location :	Description	Max
	R.C/Culvert Box Station (93+617) Wing (L&R)	C.45

Date of Casting:-

22-Jan-2023

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g./cm <sup>2</sup> )	Compressive (K.g./cm <sup>2</sup> )
SC/1107	2.46	29-Jan-2023	7	225	99552	442
SC/1107	2.49	29-Jan-2023	7	225	95166	423
SC/1107	2.49	29-Jan-2023	7	225	94248	419

Average of Compressive Strength (kg/cm<sup>2</sup>)

428

Remarks:

Prepared by:

Eng. Roudi Yehia

Reviewed by:

Eng. Osama Mofar

ARDAM AL CO.  
Egypt Express Train  
Project

# ARDAMAN S.p.l.t

MATERIALS AND CONSTRUCTION TESTING, S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDEESEN - GIZA

Tel.: 33448413 - Fax.: 33031719

## CONCRETE QUALITY CONTROL - DAILY REPORT

### Electric Express Train - 15 May Sector

Client: Kalsresh Co

Date : 19-Feb-2023

Batch Plant: Reliance

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Station (93+617) Wing (L&R)	C.45

Date of Casting:- 22-Jan-2023

Cube Dimensions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm <sup>3</sup> )	Date Of Testing	Age of Cube (days)	Area Loaded (cm <sup>2</sup> )	Crushing Load (K.g/cm <sup>2</sup> )	Compressive (K.g/cm <sup>2</sup> )
SC/1107	2.47	19-Feb-2023	28	225	114648	510
SC/1107	2.47	19-Feb-2023	28	225	113730	505
SC/1107	2.46	19-Feb-2023	28	225	115974	515

Average of Compressive Strength (kg/cm<sup>2</sup>)

510

Remarks:

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CONCRETE QUALITY CONTROL - DAILY REPORT

Electric Express Train - 19 May Sector

Client: Katamesh Co

Date : 13-Feb-2023

Batch Plant: EMA COM

File No.: 4800

	Description	Mix
Location :	R.C/Culvert Box Wing Wall Station (93+617)	<u>C.45</u>

Date of Casting:- 6-Feb-2023

Cube Dimentions : 150\*150\*150

Code Iden No.	Unit Weight (gm/cm3)	Date Of Testing	Age of Cube (days)	Area Loaded (cm2)	Crushing Load (K.g./cm2)	Compressive (K.g./cm2)
SC/1133	2.46	13-Feb-2023	7	225	110262	490
SC/1133	2.42	13-Feb-2023	7	225	103836	461
SC/1133	2.45	13-Feb-2023	7	225	111588	496

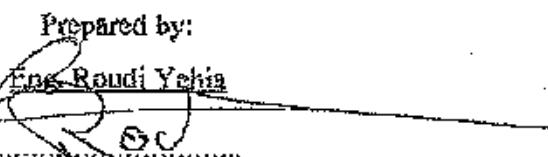
Average of Compressive Strength (kg/cm2)

482

Remarks:

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Eng. Roudi Yehia

  
SC

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Reviewed by:  
Eng. Osama Monah  
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Egypt Electric Train