

التوقيعات

-2

3- زياد جلى عبد الحليم

#### محضر استلام موقع

مشروع: أعمال الجسر الترابي لمشروع القطار الكهربائي السريع قطاع فوكه - مطروح في المسافة من كم 000+514 الي كم 500+518 بطول 4.5 كم بالاتجاهين .

> تنفيذ: شركة يوسف نجيدة للمقاولات إشراف : المنطقة الخامسة – منطقة غرب الدلتا طبقاً للعقدرةم ( 2023/2023 ) بتاريخ : 4/2023/312 إنه في يوم الاثنين الموافق 4/2023/09 اجتمع كل من:-

1- السيد المهندس /محمد حسني فياض
 2- السيد المهندس /إبراهيم عبد الله الحناوي
 3- السيد المهندس / زياد علي عبد الحليم
 3- السيد المهندس / زياد علي عبد الحليم

وذلك للمرور على مسار العملية المذكورة عاليه لاستلام الموقع :-وقد تبين أن الموقع خالياً من العوائق الظاهرية ويسمح بالبدء في التنفيذ وبناء عليه يعتبر تاريخ 2023/09/4 هو تاريخ استلام الموقع وبدء الأعمال بالعملية. واقفل المحضر على ذلك ووقع الحضور

الأنتونيس الإدارة المركزية

منطقية غرب الدلتا

"هانی محمد محمود طه"



المنطقة الخامسة - ( غرب الدلتا)

#### السيد المهندس / رئيس قطاع التنفيذ والمناطق

تحية طيبة.. وبعد،،

بالإحالة إلى مشروع القطار السريع (العين السخنة – العاصمة الإدارية -برج العرب -مرسى مطروح ) نتشرف بأن نرفق لسيادتكم طيه المقايسات المعدلة للقطاعات الأتية:

أولا : القطاع السابع (فوكة/مطروح) :

| الاتحاه    | التكلفة | الشركة                  | الطول | افة     | المس    |   |
|------------|---------|-------------------------|-------|---------|---------|---|
| 5 <u> </u> | (مليون) | الفلاركة                | (کم)  | الى     | من      | ٩ |
| الاتجاهين  | 154.761 | يوسف نجيدة<br>للمقاولات | 4.5   | 518+500 | 514+000 | 1 |

برجاء من سيادتكم التفضل بالاحاطه والتوجيه بالازم

وتفضلوا بقبول فائق الأحترام والتقدير،،

رئيس الإدارة المركزية

المنطقة الخامسة غرب الإلتا

عميد مهندس/ ه " هاني محمد محمود ظه "

| 0 £ ,<br>9 A Y , 0 + .  | <u>لات</u><br>الفنة<br>۲۳,۰۰<br>۵٤,۰۰<br>۲۰,۰۰<br>۷٦,۰۰ | بوسف نجيدة للمقاو<br>جاهين<br>الكمية<br>١٠,٠٠٠,٠٠<br>١,٠٠٠,٠٠<br>١٠,٠٠٠,٠٠ | ) - شركة و<br>+ ١٨ ٥ الآت<br>الوحدة<br>م | مشروع القطار الكهرياني السريع<br>المقايسة المعدلة لاستكمال بنود الاعمال للقطاع السابع (فوكة - مطرو<br>القطاع من المحطة ١٠٠ ( لى المحطة ١٠٠<br>عمل تطر<br>المر تعديم المعام المعادية والمرابع المعادية عالم المحطة من المحطة المعادي<br>الاربة التاسع المعاد من معرو طاري وبالالنة المعادية معالمية (المتعاد العزية) والمرابة المعاريات المياة<br>الاربالا التعادية المعادين والمرابي وبالاعتمام المرابي عنه الاتحاد المعادي المعاديات<br>الاربالا التعادية المعادية والمعادية والمعادية المعادية معالم المعادية المعاديات المعادي<br>الاربالا العادية المعادية والمعادية المعاديات الروبال عن العمار المعادية المعادي المعادي المعاديات المعادية<br>الاربالا المعادية والمعادية والمعاديات المعادي المعادية المعادية المعادية المعادية والمعادية المعاديات المعادي<br>المعادية معادين المرابي المعادية المعاد الماري والمعادية المعادية المعادية المعادية المعادية المعادية والمعادي<br>المعاد معاد معاد المعاد المعادية المعادية المعادي المعادية المعادية المعادية المعادية المعادية المعادية والمعادي<br>المعادية معادية والمعادية والمعاد المعادية المعادية المعادية المعادية المعادية المعادية المعادية والمعادية المعادية المعادية المعادية المعادية المعادية والمعادية والمعادية والمعادية والمعادية والمعادية المعادية والمعادية والمعادية<br>المعادية معادين والمعادية والمعادية والمعادي والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادي والمعادية والمعالي والمعادية والمعاد               | رقم البند<br>۲<br>۲-۲ |  |  |
|---|---|--|--|--|-----------------------|--|--|
| ۲۳.,<br>٥٤,<br>٩٨٢,٥٠.  | YT,<br>01,<br>10,0.                                     | ۱۰,۰۰۰,۰۰<br>۱۹,۰۰۰,۰۰<br>۱۹,۰۰۰,۰۰  |  | اصل قطر<br>الميل وقضي العل بينتشام المنتث الريكية في الاربة الشنية منا الاربة المسترية (استندام البلوزر) وشرية السلح بلات السرية وقرش بلعينه<br>الاسرانية الاستاني في اسة وطرية السلارية والمك قديم بلغر است الوسل في العلى 2014، جفة (60% من 2015 قطبة المسلح ب<br>الاروية الا التداسعة ، دم شرق الطريق ويتم التناة الملكي والمكاني والمسلحية والقاعك العرضية العرضية والرسومات الم<br>استثمارة علية الاسل المستانة بواساسك الهذاة الطرق والكاني وتقابلك العليه المناعات العرض المناعات المراحية الموا  | Y                     |  |  |
| 0 £ ,<br>9 A Y , 0  | 0£,<br>70,0.  | 1,,<br>10,,.   |  | يلتر تفكت اعلى غز بنتقام لعنات فيكتركية فى تلزية لتشلكة حا تقربة فسنزية (يُسْتَعَام الوَّتَزِنَ) وشرية اسطى بلات تشرية وترش بقيرة<br>الحرية تاريحين فى نبية توطرية الطارية ولت فير بليراسات الرصول في العسى كثابة هية (50% من الكافة الجافة السرور) ومعل على قنا تعمل وتق<br>الاورية تزايتا لسفة ، من منز من مور قطريق و بلا تنظيم المسيمية والطاعات الرضية السرنمية والرسرمات التعميلية المت<br>ستشكرته طنة الاس السنامة ومواصلات في العامة الطرق ولكارى وتليامات المهندس فشرف.<br>ويتم يحتسب علاوة 14 مؤلم الان 14 مرية ولت القرق ولكارى وتليامات المهندس فشرف.  |                       |  |  |
| 0 £ ,<br>9 A Y , 0  | 0£,<br>70,0.  | 1,,<br>10,,.   |  | الحمرانية المحران في نهر قرطرية الطارية واشك الجو بلوراسك الرصول في اقتصى كثافة عنهة (50% من الكافة الجافة السرور) ومعا على فائد تعمل ونكل<br>الاورية لاز انتدامسة - « منز من معرف الطرق و بنم التنابة بالمسيمية والطاعك العرمنية المرنمية العرسريات القصيلية فمتعدة والبد بعميع<br>استشارت المالي السرال السنامة ومواصلات الهذا للمالي والكارى وتطيمات المهندس الشرف.<br>إش المتسلب علاوة 14 مؤلم الله الم بالزوادة إ   | ۲_۲                   |  |  |
| 917,0   | 20,0.   | 10,,   | م  | ئة طيئا لاسران السنامة، ومواسطات قابية العلمة الطرق والكبارى وتطيمك المهانسن المشرف.<br>تسلب علاوة 1 بيتيه لقل 1 كم بلازيةة.<br>المكعب اعمل مذر بالمعات المرككوكية في تزرية مسفررية  |                       |  |  |
| 917,0   | 20,0.   | 10,,   | م  | بالمار المكعب اعمل هذر بالمندات المرتقونية في تربه صندرية  |                       |  |  |
|   |   |  |  | نات اِجهاد ( ۲۰۰۰۰۰ ) کجراسم ۲   |                       |  |  |
| ۷٦٠,٠٠٠   | v1,   | 1.,,.  | T <sub>P</sub>                           | نات اِجهاد ( ۲۰۰۰٬۰۰۰ ) کجراسم۲  |                       |  |  |
|   |   |  | , r                                      | أنك إبهد ( ٢٠٣٠٠ ) كجراميم؟<br>( حمل على الذاتر)<br>1- تعريل ذين عليقا الارس السنانة با تقل عن ٥٠٠ ملز<br>1- ترزيد انترية مليكة المسائل التي التسبية الا تشرية بسك لايزية عن ٢٥ مر لايتكمل الشرب التسبيم للتكمل العمر والاكلف (نسبة تعمل<br>كليزين لا تكن عن ١٠٠ ( رئية بالملك المرابية الرصل في سنة الرطزية تسليرية ولسك العبد بالواست الرصل الى العمر والاكلف (نسبة تعمل<br>الملكة العسر ). وزن الملك المرابين العسرية والقناعات الرصلية العرابية الملكية والمرابية العمل العمر من الاكلف<br>مراسبت الميكة العندة القرار و الكامل والمبلك المينس العرب<br>وفي ملة وزيكة استة الى تتح العلز عن ٥٠٠ هز من معرو الطريق بتم حسك ٥٠، جنبه الكرابين وزية:  | ۲-۲                   |  |  |
| ĺ.  |   |  |  | ומול לניא  | ٣                     |  |  |
| 17,+11,681  | ٨٥,   | ۱۸٩,٤٠٥,٧٥   | ٣e                                       | يكتر تشكيم اسل ترزير وتشغل اترية مسلمة التروم رمطانة المراسفات وتشغل ابتندام الات الشرية بسك لا يزيد عن ٥- سرع من سنوب ٢- عش و بسك لا<br>تسليرة ولنك لعن من استعمل الشروب السعيمي الشكل العبر والاكلة (سياة تعلل لا لا تان عن ٥٠ %) رر شيه الميلة الاسول الرسول في نسبة لا برطرية<br>تسليرة ولنك التسليق المنصور الفي العسى كلالة عنة 195 (6% بين 122 قولة القسرور) ريش التفرط طباة السولية الرسول ال<br>ولارس ملك التسليق المنصور العلم العلى المائة عنة 195 (6% بين 122 قولة القسرور) ريش التفرط طباة السولية الرسول ال<br>طبل هذا الله به البراسة والديمي المناطق عنه الأول المناعة مواصلت فهانة العلم إن القرار العلم السولية المراحية<br>على هذا الله به الإشراف والدة المناطقة عنه 196 (6% من 122 قولة العلمة القرارة الكافري وتشيات المياس العلوف.<br>- مسفة القلام الم الريش المائة المائة المناطقة المائة المائة المائة المائة العلم الالمائة المائة المائة المائة<br>المسم المال على تشريك وتشاطر والتقرارات والق العلم (6% من 124 أنه المائة المائة المائة المائة المائة المائة الم   | ۲-۲                   |  |  |
| ٧٦,٨٩٨,٧٣٦  | £ • 7,• •   | 124,5.0,40   | ٣٣                                       | علارة مسافة لنقر 191 كم  | 1                     |  |  |
| the second se | 17,   | 114, 1 . 0, 40   | ٣,                                       | علارة تحصيل رسوم الكارتة والعوازين طبقا للائمة الشركة الوطنية  | í.                    |  |  |
|   |   |  |  | لمبتك الاسلى   | ŧ                     |  |  |
| 11,11   | ۲۷۸,  | £ • , • • • , • •  | ٣  | يتشر تسكمها اصل ترريد ولرش طبقة نليس ( propaned Subgrade ) من الاحمار قصلية فشرجة تقع تصور الصارات رفطايقا الداصلات رأضى حمم<br>السينات - 1 مرالا تزييد بنجة للري من على ٢٠٠ مر ١٢ في التري فراد وبالتشريك فلفسة بلمقروع الآلي بستمل كلمولونا عن ٢ في ١٦ تزيد<br>النية قلف بين المنابع الروية الورية الانتصاف عن ما 10 من الاحمار العمل العلمي من المقروع من ٢ في ١٢ تزيد في الم<br>طي لماتين المنابع الروية المرية المرية المرية المرية المرية على علمي المقروع التروية المرية المقروع التروية ول<br>الميتامة والريونات التروية المنتزعة على الارتباد على علمة المنابع من رئيم الميتا المرابع التروية وليقار المرية<br>المتامة والريونات المرية الميتان المرية المالية المرية المرية المالية المروع والتروية المرية المرابع المرية الم<br>المتامة والريونات المرية المرية المرية المرية المرية الدواسلك الفية المروع والتروية الاستان في وتعليمات المرية<br>- منها قاتل لا تقرين من علمية والياد بمعين منابع مالية المروع والتروية الالتي من المرية المرية المرية<br>- منها قاتل لا تقرين من علمي المرية المرية المرابع المرية المرية المرية المرية المرية المرية المالية المرية الم<br>- منها قاتل لا تقرين من علمية المرية المسلمان المرية المالية المروع والتروية المالية المرية المرية المالية المرابع المرية المرية<br>- منابعة المرية علمية المنابية المنابعة المرية المرية المرابعة المرية المرية المرية المرية القارية المرية المرية<br>- منابعة علمي علمية المالية المرية المصلية المالية المرابعة المرية المالية الم<br>مريمينا علمي من مالية المرية المرية المالية المالية المرية المرية المرية المريمية المرية المرية المرية المرية المريمة المرية المالية المريمية المرية المريمة المرية المريمة المريمة المرية المريمة المرية المرية المرية المرية المريمة المريمة المرية المريمة المرية الم<br>- مريمة علمية المريمة المالية الملطة المالية المرية المريمة | ۱_٤                   |  |  |
| ۲, ٤٩٦,   | ٦٢,٤٠   | £ • , • • • , • •  |  | علارة مسافة الثل ٧٢ كم   |                       |  |  |
| 1,,   | ۲٥,   | £ • , • • • , • •  |  | علارة تحصيل رسوم فكارتة والموازين طبقا للائمة الشركة الوطنية   |                       |  |  |
| ۱۳,٤١٠,٠٠٠ ۲  | (48,  | £0,,   | ۴e                                       | المتر المكتم اصل ترويد وفرش طبقة للني من الاحمار الصلية التن ويمة تقتح كليس الصلران والطبلية العراصة في والمعين ما ين ٢١٠، عن الارات وعلية التن ويمة تقتح كليس والمارين والمنابة التن ويقى المارين والا وليد انبية التن ويرام معراك الميرية ما ين ٢٢، عن الارون التي والتي والروية (22 التي والمنابة المالية المنورية (22 التي والى المارية الحكوم المالية التن ويقى من المارية (22 التي والى المارية المالية المنورية (22 ا<br>ان تترييز أول تسليل عن ٢٠، عوبلمكن (12 يونية سنة القديرة المالة للمناروع لا تكل الانية الماليش عن ٢٠ الاروال على طبقة المتروية (22 التي والى المارية (22 التي والى المارية (22 التي والى المارية المالية المنابة المالية المنابة الماريز على تكليفرين عن ٢٠ الاروال على طبقة المارية (22 التي والى المالية ا<br>الات التيرية التي الذي الذي سنة المالية عن ٢٠ من المالية العلية الاسولية الموالية الاسليل عن ٢٠ الارولة العالية المالية المنابة التيرية الله يعلى المالية الموالية الموالية الموالية المالية المالية المالية المالية المالية المالية المالية المالية<br>الاوس الى اللي المالية المالية المارية التي عن ٢٠ الارولة عن ٢٠ من المالية الموالة الموالية الموالية المالية المالية المالية المالية المالية المالية المالية الموالية المالية المالية المالية المالية المالية المالية الموالية الموالية الموالية المالية المالية<br>والار مالية المالية المالي<br>- يتم المالية مالية المالية المالية<br>- يتم المالية ال<br>- يتم المالية مالية المالية المالية المالية المالية المالية المالية المالية المالية المالية مالية المالية مالية المالية مالية المالي  | ¥-£                   |  |  |
| ۱۰,۹۰۸,۰۰۰ ۲  | 1 1 7, 1 .  | £0,,   |  | مانرة مسافة لنل ٢١٢ كم   |                       |  |  |
| 1,170,  | ۲٥,٠٠   | 10,,   |  | علاوة تحصيل رسرم فكارتة والموازين طبقا للانمة الشركة الوطنية   |                       |  |  |
| T   |   |  | 1  | ئېتىلەت قۇرىشىنى 🚽 🚽   | ٥                     |  |  |
| 11,710,   | •••,••  | **,,   | ۲e                                       | يكتر السطح اعل تزريد وسب غربية علية سف 10 - بالمية 2012 روبيل القابية الذي من 10 - 7 - مار بوليت شرح + 1 بار مال هزئي = 1.<br>الميك تريزيتين ويارد نمية Pober einforcement على أي كون خنيك رسفرل فرق ملكان من الشرف رهفة والانتخار ولمود قدرية وقيت<br>يقبل تجهيز التعل مليب الزية لقلب المناقبة إلى الميكن ولر الي الميكين التي تجه على أي تي تقريباً وقيل على مار الم<br>والتيز طبقا لأسرل المناعة والرمونك التصلية المنتخذ وأنت بعنه منهكات طبقا التواسطات قليئة فعالية النزل والميك وا   | ۹-۱                   |  |  |
| o,o, Y,   |   | ۲,۰۰۰,۰۰   | ٣٣                                       | استر العكم اسل تربير و سب غربية منية العنات المانت و السرال تعليم تكون من ٨، ٢- من الارتباعت ع ٨، ٢٠ مار مركن والاطلاط عليه<br>تعتبدت ١٢/٣٦ إن (اورد ميكا) على ايكرن العنان نشرت المعلن من تلويت والمعار الالاح و قد و لدينة مرين علم والمعان اسك<br>٢- مرازية تعاليت ١٢/٣٦ إن أو يلد على المار العنان و قدات كل كالام تكون المعال إن تعاولات الميلة و العربية من علي<br>مارينيين المرار الاعلنية المالة العنان العنان المارية العنان و المعان من المارية المارية المارية المارية المعال<br>الميليين المرارية العنان المارية المارية المارية المارية المارية المارية المارية المارية العربية المارية المارية   | ٥_٢                   |  |  |
| 101, 171,,  |   |  |  | للبس سري. الإجمالي   |                       |  |  |

مدير المشروع المقاول م / زياد على م / زياد حل 1/1/21/4/1 cato 1/2/ 1/2/ alles . مقاولات 0 Ser es

معتر المشروع الاستشاري -مدير المشروع الاستشاري -مدير المشروع الاستشاري -مر خلا فوزي -C 3 . فوزي ي السريح

مدير المشراوع المالك م+ إير اهم الحناوي Y

مدير عام المشروعات م / محمد حسني فياض

يعتمد رئيس الادارة المركزية منطقة غرب الدلتا الإسكندرية - مرسى مطروح عميد مهندس / " هاتى معمود محمد طه " 1-111







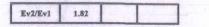


#### Plate Load Test Results

| Layer:   | Repalceme | ent of bed | Sandan attac Streets | COMPANY  | YOUSEF NEGI |
|----------|-----------|------------|----------------------|----------|-------------|
| Station: | 515+960   | TO         | 516+040              | Location | 516+000     |
| Date:    | 08-08-23  |            |                      |          |             |

| Loading   | Load | Load   | Stress | Dial 1 | Dial 2 | Dial 3 | Sett, 1 | Sett. 2 | Sett.3 | Avg.<br>Sett. |
|-----------|------|--------|--------|--------|--------|--------|---------|---------|--------|---------------|
| Stage No. | Bar  | KN     | MN/M2  | mm     | mm     | mm     | mm      | mm      | mm     | mm            |
| 0.000     | 0,0  | 0.000  | 0.00   | 5.45   | 5,90   |        | 0.000   | 0.000   |        | 0.000         |
| 1.000     | 1.0  | 0.707  | 0.01   | 5.31   | 5,73   | -      | 0.140   | 0.170   |        | 0.155         |
| 2.000     | 7.9  | 5.652  | 0.08   | 5.06   | 5.46   |        | 0.390   | 0.440   |        | 0.415         |
| 0.080     | 15.8 | 11.304 | 0.16   | 4.46   | 4.82   |        | 0.990   | 1.080   |        | 1.035         |
| 4.000     | 24.7 | 17.663 | 0.25   | 4.00   | 4.30   |        | 1.450   | 1.600   |        | 1.525         |
| 5.000     | 32.6 | 23.315 | 0,33   | 3.67   | 3.95   |        | 1.780   | 1.950   |        | 1.865         |
| 6.000     | 41.5 | 29.673 | 0.42   | 3.28   | 3.65   |        | 2.170   | 2.250   |        | 2.21          |
| 7.000     | 49.4 | 35.325 | 0.50   | 2.99   | 3.45   |        | 2.460   | 2.450   |        | 2.45          |
| 8.000     | 24.7 | 17.663 | 0.25   | 3.20   | 3.57   |        | 2.250   | 2.330   |        | 2.29          |
| 9.000     | 12,4 | 8.831  | 0.12   | 3.54   | 3.75   |        | 1.910   | 2.150   | 1001   | 2.03          |
| 9.000     | 1.0  | 0.707  | 0.01   | 4.15   | 4.30   |        | 1.300   | 1.600   |        | 1.45          |
| 10.000    | 1.0  | 0.707  | 0.01   | 4.15   | 4.30   |        | 1.300   | 1.600   |        | 1.45          |
| 11.000    | 7.9  | 5.652  | 0.08   | 4.00   | 4.20   |        | 1.450   | 1.700   |        | 1.57          |
| 12.000    | 15.8 | 11.304 | 0.16   | 3.68   | 3.98   |        | 1.770   | 1.920   |        | 1.84          |
| 13.000    | 24.7 | 17.663 | 0.25   | 3.43   | 3.81   | SAL VO | 2.020   | 2.090   |        | 2.05          |
| 14.000    | 32.6 | 23.315 | 0.33   | 3.20   | 3.67   |        | 2.250   | 2.230   |        | 2.24          |
| 15.000    | 41.5 | 29.673 | 0.42 . | 3.05   | 3.54   |        | 2.400   | 2.360   |        | 2.38          |

| Area ( Sq.m)         | 0,07065 |        |         |     |  |
|----------------------|---------|--------|---------|-----|--|
| Ev <sub>2</sub>      | 78.80   |        |         |     |  |
| Ev <sub>1</sub>      | 43.35   |        |         |     |  |
| D (mm)               | 300     |        |         |     |  |
| 0.3o2                | 0.15    | 1.7    |         | 0.  |  |
| 0.7ø2                | 0.35    | 2.2711 | 0.5711  | 0.  |  |
| . 0.3 σ <sub>1</sub> | 0.15    | 0.9575 | 1.03813 | 0.5 |  |
| 0.7 ø <sub>1</sub>   | 0.35    | 1.9956 | 1.03813 | 0.1 |  |
|                      |         | 8      | AS      | Ae  |  |





MN/M2 0.10 0.20 0.40 0.50 0,00 0.60 0.000 0.500 1.000 Sett. 1.500 \* 2.000 \* 2.500 3.000

**Consultant Engineer** Lab. Specialist Lab. Engineer cherb Hom of Name : Name : Name : Abdosimu 5 Sign : Sign : Sign : C نرفع/فوكة - مطرو 202







Owater

#### Plate Load Test Results

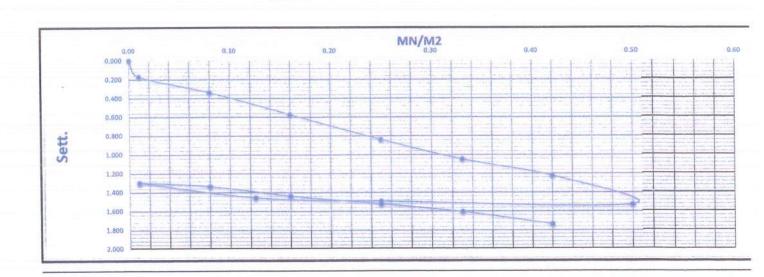
| Layer:   | embankment | -1 | .5      | COMPANY  | YOUSEF NEGI |
|----------|------------|----|---------|----------|-------------|
| Station: | 515+260    | TO | 515+280 | Location | 515+270     |
| Date:    | 10-08-23   |    |         |          |             |

| Loading   | Load | Load   | Stress | Dial 1 | Dial 2 | Dial 3 | Sett. 1 | Sett. 2 | Sett.3 | Avg.<br>Sett. |
|-----------|------|--------|--------|--------|--------|--------|---------|---------|--------|---------------|
| Stage No. | Bar  | KN     | MN/M2  | mm     | mm     | mm     | mm      | mm      | mm     | mm            |
| 0.000     | 0.0  | 0.000  | 0.00   | 7.15   | 7.33   |        | 0.000   | 0.000   |        | 0.000         |
| 1.000     | 1.0  | 0.707  | 0.01   | 6,98   | 7.16   |        | 0.170   | 0.170   |        | 0.170         |
| 2.000     | 7.9  | 5,652  | 0.08   | 6,80   | 7.00   | 101515 | 0.350   | 0.330   |        | 0.340         |
| 0.080     | 15.8 | 11.304 | 0.16   | 6.58   | 6.75   |        | 0.570   | 0.580   |        | 0.575         |
| 4.000     | 24.7 | 17.663 | 0.25   | 6.30   | 6.50   | Sec. 1 | 0.850   | 0.830   |        | 0.840         |
| 5.000     | 32.6 | 23.315 | 0.33   | 6.14   | 6.24   |        | 1.010   | 1.090   | 1018   | 1.050         |
| 6.000     | 41.5 | 29.673 | 0.42   | 5,83   | 6.20   |        | 1.320   | 1.130   |        | 1.225         |
| 7.000     | 49.4 | 35.325 | 0.50   | 5.54   | 5.88   |        | 1.610   | 1.450   |        | 1.530         |
| 8.000     | 24.7 | 17.663 | 0,25   | 5.56   | 5.93   |        | 1.590   | 1.400   |        | 1.495         |
| 9.000     | 12.4 | 8.831  | 0.12   | 5.55   | 6.01   |        | 1.600   | 1.320   |        | 1.460         |
| 9.000     | 1.0  | 0.707  | 0.01   | 5.88   | 6.00   |        | 1.270   | 1.330   |        | 1.300         |
| 10.000    | 1.0  | 0.707  | 0.01   | 5.88   | 6.00   |        | 1.270   | 1.330   |        | 1.300         |
| 11.000    | 7.9  | 5.652  | 0.08   | 5.84   | 5.96   |        | 1.310   | 1.370   |        | 1.340         |
| 12.000    | 15.8 | 11.304 | 0.16   | 5.74   | 5.86   |        | 1.410   | 1.470   |        | 1.440         |
| 13.000    | 24.7 | 17.663 | 0.25   | 5.65   | 5.78   |        | 1.500   | 1.550   |        | 1.525         |
| 14.000    | 32.6 | 23.315 | 0.33   | 5.57   | 5.69   |        | 1.580   | 1.640   |        | 1.610         |
| 15.000    | 41.5 | 29.673 | 0.42   | 5.45   | 5.55   |        | 1.700   | 1.780   |        | 1.740         |

|                   |         | s      | AS      | Δα  |  |
|-------------------|---------|--------|---------|-----|--|
| 0.7 σ1            | 0.35    | 0.9581 | 0.4125  |     |  |
| 0.3 σ1            | 0.15    | 0.5456 | 0.4125  | 0.3 |  |
| 0.7σ <sub>2</sub> | 0.35    | 1.6389 | 0.25888 | 0.3 |  |
| 0.3ơ2             | 0.15    | 1.38   | 0.23000 | 0., |  |
| D (mm)            | 300     |        |         |     |  |
| Ev <sub>1</sub>   | 109.09  |        |         |     |  |
| Ev2               | 173.82  |        |         |     |  |
| Area (Sq.m)       | 0.07065 |        |         |     |  |







**Consultant Engineer** Lab. Specialist Lab. Engineer Name : Name : Name Hamed Abdash Sign 6 Sign : Sign : روع القطار السركي / فوكة 4







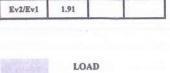
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#### Plate Load Test Results

| Layer:   | embankment | -1 | .5      | COMPANY  | YOUSEF NE |
|----------|------------|----|---------|----------|-----------|
| Station: | 515+840    | TO | 515+900 | Location | 515+88    |
| Date:    | 10-08-23   |    |         |          |           |

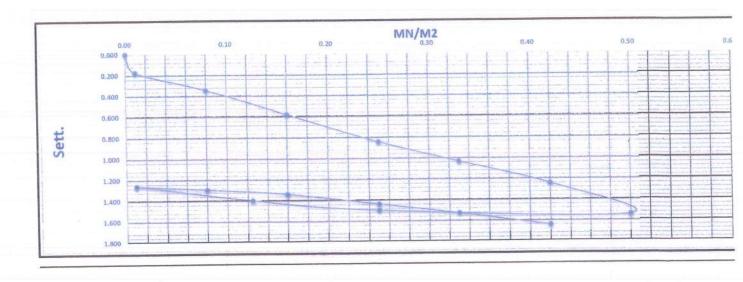
| Loading   | Load | Load   | Stress | Dial 1 | Dial 2 | Dial 3 | Sett. 1 | Sett. 2 | Sett.3 | Avg.<br>Sett. |
|-----------|------|--------|--------|--------|--------|--------|---------|---------|--------|---------------|
| Stage No. | Bar  | KN     | MN/M2  | mm     | mm     | mm     | mm      | mm      | mm     | mm            |
| 0.000     | 0.0  | 0.000  | 0.00   | 5,51   | 5,68   |        | 0.000   | 0.000   |        | 0,000         |
| 1.000     | 1.0  | 0.707  | 0.01   | 5,33   | 5.51   |        | 0.180   | 0,170   | -      | 0.17          |
| 2.000     | 7.9  | 5.652  | 0.08   | 5.15   | 5,35   |        | 0.360   | 0.330   |        | 0,34          |
| 0.080     | 15.8 | 11.304 | 0,16   | 4.93   | 5.10   |        | 0.580   | 0.580   |        | 0.58          |
| 4.000     | 24.7 | 17.663 | 0.25   | 4.65   | 4.85   |        | 0.860   | 0.830   |        | 0.84          |
| 5.000     | 32.6 | 23.315 | 0.33   | 4.43   | 4.69   |        | 1.080   | 0.990   |        | 1.03          |
| 6.000     | 41.5 | 29,673 | 0.42   | 4.21   | 4.49   |        | 1.300   | 1.190   |        | 1.24          |
| 7.000     | 49.4 | 35.325 | 0.50   | 3.87   | 4.23   | 244    | 1.640   | 1.450   |        | 1.54          |
| 8.000     | 24.7 | 17.663 | 0.25   | 3.91   | 4.28   |        | 1.600   | 1.400   |        | 1.50          |
| 9.000     | 12.4 | 8.831  | 0.12   | 4.03   | 4.36   |        | 1.480   | 1.320   |        | 1.40          |
| 9.000     | 1.0  | 0.707  | 0.01   | 4.22   | 4.45   | K      | 1.290   | 1.230   |        | 1.26          |
| 10.000    | 1.0  | 0.707  | 0.01   | 4.22   | 4.45   |        | 1.290   | 1.230   |        | 1.26          |
| 11.000    | 7.9  | 5.652  | 0.08   | 4.16   | 4.44   |        | 1.350   | 1.240   |        | 1.29          |
| 12.000    | 15.8 | 11.304 | 0.16   | 4.09   | 4.42   |        | 1.420   | 1.260   |        | 1.34          |
| 13.000    | 24.7 | 17.663 | 0.25   | 3.98   | 4.33   |        | 1.530   | 1.350   |        | 1.44          |
| 14.000    | 32.6 | 23.315 | 0.33   | 3.86   | 4.27   |        | 1.650   | 1.410   |        | 1.53          |
| 15.000    | 41.5 | 29.673 | 0.42   | 3.75   | 4.15   |        | 1.760   | 1.530   |        | 1.64          |

|                    |         | 5 .    | AS      |  |
|--------------------|---------|--------|---------|--|
| 0.7 σ <sub>1</sub> | 0.35    | 0.9825 | 0.43188 |  |
| 0.3 σ1             | 0.15    | 0.5506 | 0,45100 |  |
| 0.7σ2              | 0,35    | 1.5556 | 0.22555 |  |
| 0.3σ <sub>2</sub>  | 0.15    | 1.33   | 0.22000 |  |
| D (mm)             | 300     |        |         |  |
| Ev <sub>1</sub>    | 104.20  |        |         |  |
| Ev2                | 199,51  |        |         |  |
| rea (Sq.m)         | 0.07065 |        |         |  |





UN LOAD RE LOAD



| Name: Mohamed Hamed | Name: Magdh |
|---------------------|-------------|
| Sign: 2.23          | Sign: Grand |
|                     | Sign: 22    |



29.673

35.325

17.663

8.831

0.707

0.707

5.652

11.304

17.663

23.315

29.673

41.5

49.4

24.7

12.4

1.0

1.0

7.9

15.8

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4.08

3.97



Contarctor



#### Plate Load Test Results

| I         | Layer:  |        |        | emban               | kment  |        | -1                    | .5      |        |               | CO                 | MPAN   | Y       | YOUSEFN | NEGI |
|-----------|---------|--------|--------|---------------------|--|--------|-----------------------|---------|--------|---------------|--------------------|--------|---------|---------|------|
|           | tation: |        | 5      | 15+90               | 0  | 1      | TO 515+960            |         |        | Lo            | ocation            |        | 515+920 |         |      |
|           | Date:   |        |        | 09-0                | 8-23   |        |                       |         |        |               |                    |        |         |         |      |
| Loading   | Load    | Load   | Stress | Dial 1              | Dial 2   | Dial 3 | Sett. 1               | Sett. 2 | Sett.3 | Avg.<br>Sett. |                    |        | 8       | ΔS      | Δσ   |
| Stage No. | Bar     | KN     | MN/M2  | mm                  | mm   | mm     | mm                    | mm      | mm     | mm            | 0.7 σ <sub>1</sub> | 0.35   | 0.7181  | 0.46563 | 0.1  |
| 0.000     | 0.0     | 0.000  | 0.00   | 5.42                | 5.36   |        | 0.000                 | 0.000   |        | 0.000         | . 0.3 σ1           | 0.15   | 0.2525  |         |      |
| 1.000     | 1.0     | 0.707  | 0.01   | 5.40                | 5.31   | 1      | 0.020                 | 0.050   |        | 0.035         | 0.7o2              | 0.35   | 0.8517  | 0.22666 | 0.1  |
| 2.000     | 7.9     | 5.652  | 0.08   | 5.36                | 5.23   |        | . 0.060               | 0.130   |        | 0.095         | 0.3σ2              | 0.15   | 0.625   | 0.22000 | 0.7  |
| 0.080     | 15.8    | 11.304 | 0.16   | 5.25                | 4.98   |        | 0.170                 | 0.380   |        | 0.275         | D (mm)             | 300    |         |         |      |
| 4.000     | 24.7    | 17.663 | 0.25   | 5.17                | 4.73   | -      | 0.250                 | 0.630   |        | 0.440         | Evi                | 96.64  |         |         |      |
| 5.000     | 32.6    | 23.315 | 0.33   | 5.08                | 4.44   | 1.3    | 0.340                 | 0.920   |        | 0.630         | Ev <sub>2</sub>    | 198,53 |         |         |      |
|           |         |        |        | Contraction and the | and the second sec |        | and the second second |         | -      |               |                    |        | 1       |         |      |

1.230

1.360

1.330

1.140

0.860

0.860

0.930

1.070

1.180

1.280

1.390

0.390

0.470

0.420

0.330

0.190

0.190

0.220

0.270

0.330

0.390

0.430

0.810

0.915

0.875

0.735

0.525

0.525

0.575

0.670

0.755

0.835

0.910

| Area (Sq.m) | 0.07065 |    |  |
|-------------|---------|----|--|
|             |         | ¥0 |  |
| Ev2/Ev1     | 2.05    |    |  |



MN/M2 0.60 0,50 0.40 0.20 0.10 0,00 0.000 0.100 0.200 0.300 0.400 Sett. 0.500 0.600 . 0,700 8. + 0.800 -0.900 1.000

**Consultant Engineer** Lab. Engineer Lab. Specialist Hameo Name : Name epul Name : Mod 410 Sign : 2 Sign : ووعالقطار السريع فوكة







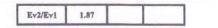
لهيلة القصية فإذغاق 1 A \$ 15'T

#### Plate Load Test Results

| Layer:   | embankment | -1 | .5      | COMPANY  | YOUSEF NEGID |
|----------|------------|----|---------|----------|--------------|
| Station: | 516+040    | ТО | 516+160 | Location | 516+080      |
| Date:    | 10-08-23   |    |         |          |              |

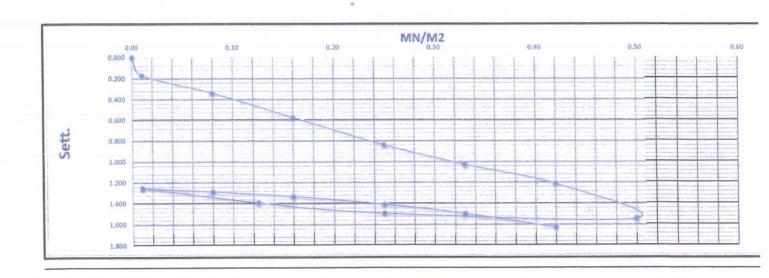
| Loading   | Load  | Load   | Stress | Dial 1 | Dial 2 | Dial 3   | Sett. 1 | Sett. 2 | Sett , 3 | Avg.<br>Sett. |
|-----------|-------|--------|--------|--------|--------|----------|---------|---------|----------|---------------|
| Stage No. | Bar   | KN     | MN/M2  | mm     | mm     | mm       | mm      | mm      | mm       | mm            |
| 0.000     | 0.0   | 0.000  | 0.00   | 5,55   | 5,73   | 13.      | 0.000   | 0,000   |          | 0.000         |
| 1.000     | 1.0   | 0.707  | 0,01   | 5.38   | 5.56   |          | 0.170   | 0.170   |          | 0.17          |
| 2.000     | 7.9   | 5,652  | 0.08   | 5.20   | 5,40   |          | 0.350   | 0.330   |          | 0.34          |
| 0.080     | 15.8  | 11,304 | 0.16   | 4.98   | 5,15   |          | 0.570   | 0.580   |          | 0.57          |
| 4.000     | 24.7  | 17.663 | 0.25   | 4.70   | 4.90   |          | 0.850   | 0.830   |          | 0.84          |
| 5.000     | 32.6  | 23.315 | 0.33   | 4,48   | 4.74   | Torrest. | 1.070   | 0.990   | 10       | 1.03          |
| 6.000     | 41.5  | 29.673 | 0.42   | 4.27   | 4.58   |          | 1.280   | 1.150   | 1.1.1    | 1.21          |
| 7.000     | 49.4  | 35.325 | 0.50   | 3.91   | 4.28   | 123.34   | 1.640   | 1.450   |          | 1.54          |
| 8.000     | 24.7  | 17.663 | 0.25   | 3.96   | 4.33   |          | 1.590   | 1.400   |          | 1.49          |
| 9.000     | 12.4. | 8.831  | 0.12   | 4.08   | 4.41   |          | 1.470   | 1.320   |          | 1.39          |
| 9.000     | 1.0   | 0.707  | 0.01   | 4.27   | 4.50   |          | 1.280   | 1.230   |          | 1.25          |
| 10.000    | 1.0   | 0.707  | 0.01   | 4.27   | 4.50   |          | 1.280   | 1.230   |          | 1.25          |
| 11.000    | 7.9   | 5.652  | 0.08   | 4.21   | 4.49   |          | 1.340   | 1.240   |          | 1.29          |
| 12.000    | 15.8  | 11.304 | 0.16   | 4.14   | 4.47   |          | 1.410   | 1.260   |          | 1.33          |
| 13.000    | 24.7  | 17.663 | 0.25   | 4.05   | 4.41   |          | 1.500   | 1.320   |          | 1.41          |
| 14.000    | 32.6  | 23.315 | 0.33   | 3.94   | 4.34   |          | 1.610   | 1.390   |          | 1.50          |
| 15.000    | 41.5  | 29.673 | 0.42   | 3.81   | 4.21   | 1000     | 1.740   | 1.520   |          | 1.63          |

|                    |         | 5       | <u>AS</u> | Δσ  |
|--------------------|---------|---------|-----------|-----|
| 0.7 ø <sub>1</sub> | 0.35    | 0.92.63 | 0.200/2   |     |
| 0.3 σ <sub>1</sub> | 0.15    | 0.5456  | 0.38063   | 0.2 |
| 0.702              | 0.35    | 1.52.89 | 0.20389   | 0.2 |
| 0.3o2              | 0.15    | 1.325   | 0.20389   | 0.2 |
| D (mm)             | 300     |         |           |     |
| Ev <sub>1</sub>    | 118.23  |         |           |     |
| Ev <sub>2</sub>    | 220.71  |         |           |     |
| Area ( Sq.m)       | 0.07065 |         |           |     |









**Consultant Engineer** Lab. Specialist Lab. Engineer Ablash Name : Name : Name Sign : Sign : Sign : S ريد فوكة - مطر وعالقطارال







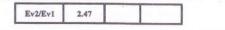
Plate Load Test Results

| Layer:   | embankment | -1 | .5      | COMPANY  | YOUSEF NEGID |
|----------|------------|----|---------|----------|--------------|
| Station: | 516+040    | TO | 516+160 | Location | 516+150      |
| Date:    | 10-08-23   |    |         |          |              |

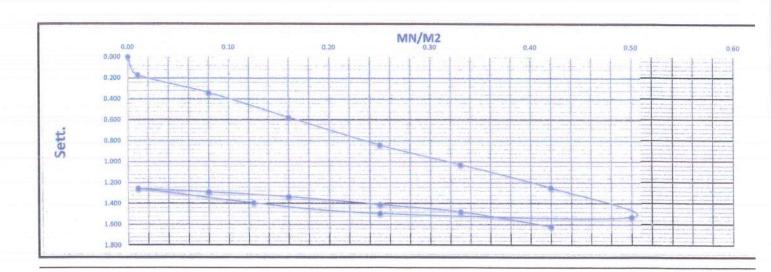
| Loading   | Load | Load   | Stress | Dial 1 | Dial 2 | Dial 3    | Sett. 1 | Sett. 2 | Sett.3 | Avg.<br>Sett. |
|-----------|------|--------|--------|--------|--------|-----------|---------|---------|--------|---------------|
| Stage No. | Bar  | KN     | MN/M2  | mm     | mm     | mm        | mm      | mm      | mm     | mm            |
| 0.000     | 0.0  | 0.000  | 0.00   | 6.05   | 6.23   |           | 0.000   | 0.000   |        | 0.000         |
| 1.000     | 1.0  | 0.707  | 0.01   | 5.88   | 6.06   |           | 0.170   | 0.170   |        | 0.170         |
| 2.000     | 7.9  | 5.652  | 0,08   | 5.70   | 5.90   | -         | 0.350   | 0.330   |        | 0.340         |
| 0.080     | 15,8 | 11.304 | 0.16   | 5.48   | 5,65   |           | 0.570   | 0.580   |        | 0.575         |
| 4.000     | 24.7 | 17.663 | 0.25   | 5,20   | 5,40   |           | 0.850   | 0.830   |        | 0.840         |
| 5.000     | 32.6 | 23.315 | 0.33   | 4.98   | 5.24   |           | 1.070   | 0.990   |        | 1.030         |
| 6.000     | 41.5 | 29.673 | 0.42   | 4.68   | 5.10   | Cherry I. | 1.370   | 1.130   |        | 1.250         |
| 7.000     | 49.4 | 35,325 | 0.50   | 4.44   | 4.78   |           | 1.610   | 1.450   |        | 1.530         |
| 8.000     | 24.7 | 17,663 | 0.25   | 4.46   | 4.83   |           | 1.590   | 1.400   |        | 1.495         |
| 9.000     | 12.4 | 8.831  | 0.12   | 4.58   | 4.91   |           | 1.470   | 1.320   |        | 1.39          |
| 9.000     | 1.0  | 0.707  | 0.01   | 4.77   | 5,00   |           | 1.280   | 1.230   |        | 1.25          |
| 10.000    | 1.0  | 0.707  | 0.01   | 4.77   | 5.00   |           | 1.280   | 1.230   |        | 1.25          |
| 11.000    | 7.9  | 5.652  | 0.08   | 4.71   | 4.99   |           | 1.340   | 1.240   | 2.00   | 1.29          |
| 12.000    | 15.8 | 11.304 | 0.16   | 4.64   | 4.97   |           | 1.410   | 1.260   |        | 1.33          |
| 13.000    | 24.7 | 17.663 | 0.25   | 4.55   | 4.91   |           | 1.500   | 1.320   |        | 1.410         |
| 14.000    | 32.6 | 23.315 | 0.33   | 4.49   | 4.83   |           | 1.560   | 1.400   |        | 1.48          |
| 15.000    | 41.5 | 29.673 | 0.42   | 4.35   | 4.69   |           | 1.700   | 1.540   |        | 1.62          |

|                    |         | 5      | AS      | Δσ  |
|--------------------|---------|--------|---------|-----|
| 0.7 σ1             | 0.35    | 1.005  | 0.45030 |     |
| 0.3 σ <sub>1</sub> | 0.15    | 0.5456 | 0,45938 | 0.2 |
| 0.702              | 0.35    | 1.5111 | 0.10(11 | 0.0 |
| 0.3o2              | 0.15    | 1.325  | 0.18611 | 0.2 |
| D (mm)             | 300     |        |         |     |
| Ev <sub>1</sub>    | 97.96   |        |         |     |
| Ev <sub>2</sub>    | 241.80  |        |         |     |
| Area (Sq.m)        | 0.07065 |        |         |     |

ALLEN

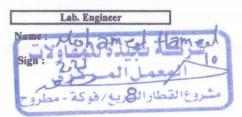


LOAD UN LOAD RE LOAD



Lab. Specialist Name :

Sign :



**Consultant Engineer** Name : Abdela Sign :



24.7

32.6

41.5

13.000

14.000

15.000

17.663

23.315

29.673

0.25

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Constant and the second second

Contractor Consultant

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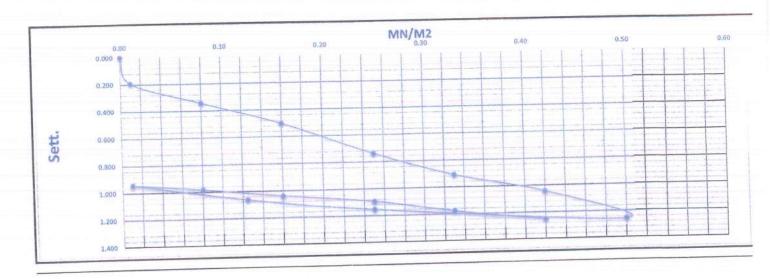
1.255

JAMI Balles A state for the

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|           |         |        |        |        |  | Plate                  | e Load       | I Test  | t Re     | sults         |                    |         |               |         |      |
|-----------|---------|--------|--------|--------|--|------------------------|--------------|---------|----------|---------------|--------------------|---------|---------------|---------|------|
|           | layer:  | Г      |        | EMB    | ENT  |                        | <u>}1.</u>   | 5       |          | COMPANY       |                    |         | YOUSEF NEGIDA |         |      |
|           | tation: | ł      | 5      | 16+160 | the state of the s | NAME OF TAXABLE PARTY. | O O          |         | 6+24     | 10            | Location           |         |               | 516+200 |      |
| 110.000   | Date:   | L      |        | 14-08  |  |                        |              |         |          |               | <u></u>            |         |               |         |      |
| Loading   | Load    | Load   | Stress | Dial 1 | Dial 2   | Dial 3                 | Sett. 1      | Sett. 2 | Sett . 3 | Avg.<br>Sett. | r                  |         | s             | ΔS      | Δσ   |
| Stage No. | Bar     | KN     | MN/M2  | mm     | mm   | mm                     | mm           | mm      | mm       | mm            | 0.7 σ1             | 0.35    | 0.8569        |         |      |
| 0.000     | 0.0     | 0.000  | 0.00   | 7.07   | 7.83   |                        | 0.000        | 0.000   |          | 0.000         | 0.3 σ <sub>1</sub> | 0.15    | 0.485         | 0.37188 | 0.2  |
| 1.000     | 1.0     | 0.707  | 0.01   | 6.93   | 7.58   |                        | 0.140        | 0.250   |          | 0.195         | 0.7o2              | 0.35    | 1.1967        | 0.17166 | 0.2  |
| 2.000     | 7.9     | 5.652  | 0.08   | 6.77   | 7.44   |                        | 0.300        | 0.390   | 19       | 0.345         | 0.3σ <sub>2</sub>  | 0.15    | 1.025         | 0.17100 | Uste |
| 0.080     | 15.8    | 11.304 | 0.16   | 6.53   | 7.36   |                        | 0.540        | 0.470   |          | 0.505         | D (mm)             | 300     |               |         |      |
| 4.000     | 24.7    | 17.663 | 0.25   | 6.30   | 7.12   |                        | 0.770        | 0.710   |          | 0.740         | Evi                | 121.01  |               |         |      |
| 5.000     | 32.6    | 23.315 | 0.33   | 6.14   | 6.94   |                        | 0.930        | 0.890   |          | 0.910         | Ev <sub>2</sub>    | 262.14  |               |         |      |
| 6.000     | 41.5    | 29,673 | 0.42   | 6.00   | 6.81   |                        | 1.070        | 1.020   |          | 1.045         | Area (Sq.m)        | 0.07065 |               |         |      |
| 7.000     | 49.4    | 35.325 | 0.50   | 5.80   | 6.58   | 200                    | 1.270        | 1.250   |          | 1.260         |                    |         |               |         |      |
| 8.000     | 24.7    | 17.663 | 0.25   | 5.89   | 6.70   | Success.               | 1.180        | 1.130   |          | 1.155         | Ev2/Ev1            | 2.17    |               |         |      |
| 9.000     | 12.4    | 8.831  | 0.12   | 6.00   | 6.77   |                        | 1.070        | 1.060   |          | 1,065         |                    |         |               |         |      |
| 9.000     | 1.0     | 0.707  | 0.01   | 6.15   | 6.86   | 1. 1                   | 0.920        | 0.970   |          | 0.945         |                    |         |               |         |      |
| 10.000    | 1.0     | 0.707  | 0.01   | 6.15   | 6.86   |                        | 0.920        | 0.970   |          | 0.945         |                    |         | AD            |         |      |
| 11.000    | 7.9     | 5.652  | 0.08   | 6.11   | 6.82   |                        | 0.960        | 1.010   |          | 0.985         |                    |         | LOAD          |         | 8    |
| 12.000    | 15.8    | 11.304 | 0.16   | 6.05   | 6.77   |                        | 1.020        | 1.060   |          | 1.040         |                    | RE I    | LOAD          |         |      |
|           |         |        |        | 1      | THE REAL PROPERTY AND  | A CONTRACTOR OF THE    | A COLORED OF |         |          |               |                    |         |               |         |      |



1.070

1.180

1.270

6.71

6.65

6.59

1.120

1.180

1.240

|                                     | Lab. Engineer                    | Consultant Engineer |
|-------------------------------------|----------------------------------|---------------------|
| Lab. Specialist<br>Name :<br>Sign : | Name: Mohamed Hamed              | Name:<br>Sign:      |
|                                     | مشروع القطار السريع/فوكة - مطروح |                     |



15.000

41.5

29.673

0.42

7.20

6.48



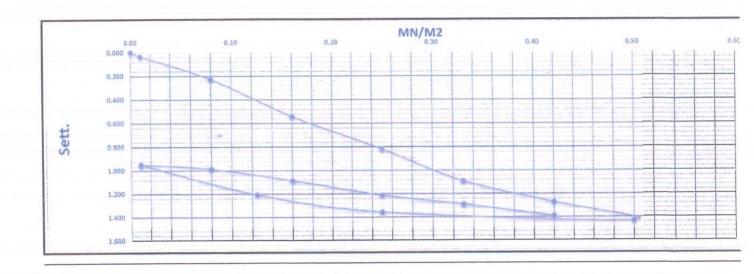
Contarctor

1.395





|           |         |        |        |        |        | Plat    | e Loa   | d Tes   | t Re   | sults         |   |         |        |         |    |
|-----------|---------|--------|--------|--------|--------|---------|---------|---------|--------|---------------|---|---------|--------|---------|----|
| I         | Layer:  |        |        | EMB    | ANKN   | IENT    |         | -1.     | 5      |               | CON                                     | MPAN    | Y      | YOUSEF  | NI |
|           | tation: |        | 5      | 15+28  | 0      | ]       | 01      | 5       | 15+30  | 00            | Location                                |         | l      | 515+2   |    |
| )         | Date:   |        |        | 15-0   | 8-23   | Pr. 4   |         |         |        |               |   |         |        |         |    |
| Loading   | Load    | Lond   | Stress | Dial 1 | Dial 2 | Dial 3  | Sett. 1 | Sett. 2 | Sett.3 | Avg.<br>Sett. |   |         | 8      | AS      |    |
| Stage No. | Bar     | KN     | MN/M2  | mm     | mm     | mm      | mm      | mm      | mm     | mm            | 0.7 σ1                                  | 0,35    | 1.135  | 0.62938 |    |
| 0.000     | 0.0     | 0.000  | 0.00   | 8.03   | 8.44   |         | 0.000   | 0.000   |        | 0.000         | 0.3 σ <sub>1</sub>                      | 0.15    | 0.5056 | 0.02758 |    |
| 1.000     | 1.0     | 0.707  | 0.01   | 8.00   | 8.40   |         | 0.030   | 0.040   |        | 0.035         | 0.7o2                                   | 0.35    | 1.3172 | 0.28722 |    |
| 2.000     | 7.9     | 5.652  | 0.08   | 7.88   | 8.13   |         | 0.150   | 0.310   |        | 0.230         | 0.3σ2                                   | 0.15    | 1.03   | 0.40744 |    |
| 0.080     | 15.8    | 11.304 | 0.16   | 7.64   | 7.74   | 10 (US) | 0.390   | 0.700   | 1      | 0.545         | D (mm)                                  | 300     |        |         |    |
| 4.000     | 24.7    | 17.663 | 0.25   | 7.46   | 7.37   |         | 0.570   | 1.070   | 2.4.1  | 0.820         | Ev <sub>1</sub>                         | 71.50   |        |         |    |
| 5.000     | 32.6    | 23.315 | 0.33   | 7.29   | 6,99   | 4.8     | 0.740   | 1.450   |        | 1.095         | Ev2                                     | 156.68  |        |         |    |
| 6.000     | 41.5    | 29.673 | 0.42   | 7.20   | 6.72   |         | 0.830   | 1.720   |        | 1.275         | Area (Sq.m)                             | 0.07065 |        |         |    |
| 7.000     | 49.4    | 35.325 | 0.50   | 7.12   | 6.48   | Sec.    | 0.910   | 1.960   | 1      | 1.435         |   |         |        |         |    |
| 8.000     | 24.7    | 17.663 | 0.25   | 7.19   | 6.56   |         | 0.840   | 1.880   | 1      | 1,360         | Ev2/Ev1                                 | 2.19    |        |         |    |
| 9.000     | 12,4    | 8,831  | 0.12   | 7.30   | 6.75   |         | 0.730   | 1.690   |        | 1.210         | 1.00.0000000000000000000000000000000000 |         |        |         |    |
| 9.000     | 1.0     | 0.707  | 0.01   | 7.50   | 7.07   |         | 0.530   | 1.370   |        | 0.950         |   |         |        |         |    |
| 10.000    | 1.0     | 0.707  | 0.01   | 7.50   | 7.07   |         | 0.530   | 1.370   |        | 0.950         |   | LO      | AD     |         |    |
| 11.000    | 7.9     | 5.652  | 0.08   | 7.48   | 7.01   |         | 0.550   | 1.430   |        | 0.990         |   | UN L    | OAD    |         |    |
| 12.000    | 15.8    | 11.304 | 0.16   | 7.41   | 6.88   | -       | 0.620   | 1.560   |        | 1.090         |   | RE L    | OAD    |         |    |
| 13.000    | 24.7    | 17.663 | 0.25   | 7.31   | 6.73   |         | 0.720   | 1.710   |        | 1.215         |   |         |        |         |    |
| 14.000    | 32.6    | 23.315 | 0.33   | 7.26   | 6.62   |         | 0.770   | 1.820   |        | 1.295         |   |         |        |         |    |
|           |         |        |        |        |        |         |         |         |        |               |   |         |        |         |    |



0.830

1.960

**Consultant Engineer** Lab. Specialist Lab. Engineer R.O Name : Name : Name : Abobstone د الموجل الما جون : د و فصل السري / فو كة - مطرو Sign : 14/8/2023 Sign :



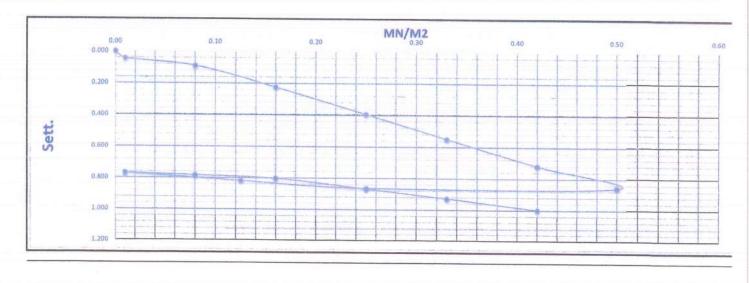


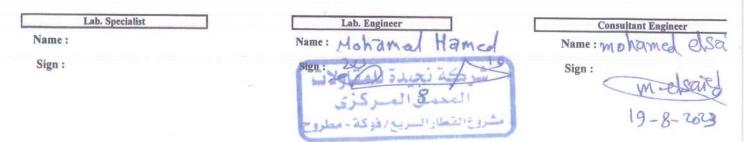


Owner

| Plata Load Tast D  | and lan |
|--------------------|---------|
| Plate Load Test Re | esuns   |

|           | Layer:  |        |        | emban  |        |        |         | .5      | -        |               | CO                  | MPAN    | Y           | YOUSEF  | NE   |
|-----------|---------|--------|--------|--------|--------|--------|---------|---------|----------|---------------|---------------------|---------|-------------|---------|------|
|           | tation: |        | 5      | 515+96 | 0      |        | ГО      | 5       | 16+04    | 40            | Lo                  | ocation | 1           | 510     | 6+00 |
|           | Date:   |        |        | 19-0   | 8-23   |        |         |         |          |               |                     |         |             |         |      |
| Loading   | Load    | Load   | Stress | Dial 1 | Dial 2 | Dial 3 | Sett. 1 | Sett. 2 | Sett , 3 | Avg.<br>Sett. |                     |         |             | AS      |      |
| Stage No. | Bar     | KN     | MN/M2  | mm     | mm     | mm     | mm      | mm      | mm       | mm            | 0.7 σ1              | 0.35    | 8<br>0.5975 |         | -    |
| 0.000     | 0.0     | 0.000  | 0.00   | 7.05   | 6.08   |        | 0.000   | 0.000   | 1.1      | 0.000         | 0.3 σ1              | 0.15    | 0.2081      | 0.38938 | -    |
| 1.000     | 1.0     | 0.707  | 0.01   | 7.01   | 6.03   |        | 0.040   | 0.050   |          | 0.045         | 0.7σ2               | 0.35    | 0.9456      |         |      |
| 2.000     | 7.9     | 5.652  | 0.08   | 6.98   | 5.97   |        | 0.070   | 0.110   | 12.11    | 0.090         | 0.3σ2               | 0.15    | 0.8         | 0.14555 |      |
| 0.080     | 15.8    | 11.304 | 0.16   | 6.84   | 5.84   |        | 0.210   | 0.240   | 1.1.1    | 0.225         | D (mm)              | . 300   |             |         | -    |
| 4.000     | 24.7    | 17.663 | 0.25   | 6.67   | 5.67   |        | 0.380   | 0.410   |          | 0.395         | Ev <sub>1</sub>     | 115.57  |             |         | -    |
| 5.000     | 32.6    | 23.315 | 0.33   | 6.52   | 5.51   |        | 0.530   | 0.570   |          | 0.550         | Ev <sub>2</sub>     | 309,16  |             |         | _    |
| 6.000     | 41.5    | 29.673 | 0.42   | 6,36   | 5.33   |        | 0.690   | 0.750   |          | 0.720         | Area ( Sq.m)        | 0.07065 |             |         | -    |
| 7.000     | 49.4    | 35.325 | 0.50   | 6.22   | 5.19   |        | 0.830   | 0.890   |          | 0.860         | here and the second |         |             |         |      |
| 8.000     | 24.7    | 17.663 | 0.25   | 6.21   | 5.19   | 45     | 0.840   | 0.890   |          | 0.865         | Ev2/Ev1             | 2.68    |             |         |      |
| 9.000     | 12.4    | 8.831  | 0.12   | 6.26   | 5.23   |        | 0.790   | 0.850   |          | 0.820         |                     |         |             |         |      |
| 9.000     | 1.0     | 0.707  | 0.01   | 6.31   | 5.28   |        | 0.740   | 0.800   |          | 0.770         |                     |         |             |         |      |
| 10.000    | 1.0     | 0.707  | 0.01   | 6.31   | 5.28   |        | 0.740   | 0.800   |          | 0.770         |                     | LO      | AD          |         |      |
| 11.000    | 7.9     | 5.652  | 0.08   | 6.30   | 5.26   |        | 0.750   | 0.820   |          | 0.785         |                     | UN L    | DAD         |         |      |
| 12.000    | 15.8    | 11.304 | 0.16   | 6.28   | 5.24   |        | 0.770   | 0.840   |          | 0.805         |                     | RE LO   | DAD         |         |      |
| 13.000    | 24.7    | 17.663 | 0.25   | 6.21   | 5.18   |        | 0.840   | 0.900   |          | 0.870         |                     |         |             |         |      |
| 14.000    | 32.6    | 23.315 | 0.33   | 6.15   | 5.12   |        | 0.900   | 0.960   |          | 0.930         |                     |         |             |         |      |
| 15.000    | 41.5    | 29.673 | 0.42   | 6.07   | 5.06   |        | 0.980   | 1.020   |          | 1.000         |                     |         |             |         |      |





| INSPECTION (GARBLT) |  |
|--|--|
|--|--|

| Contractor<br>Company  | Yousef Negida       | (1)         |     | Desi | gner ( | Compa | any      |      |      |    |    |
|------------------------|---------------------|-------------|-----|------|--------|-------|----------|------|------|----|----|
| Issued by              | Name                | Sign        |     | Date | 9      |       |          | Time |      |    |    |
| Contractor             | Eng/Shehab<br>Hamdi | rel         | PS  | 12/4 | 1/2023 | 3     |          |      |      |    |    |
| Contractor<br>Refrence | P                   | S.G.1 YN(2) |     |      |        |       | 1.000000 |      |      |    |    |
| Received by            |                     |             |     | Cl   | CZ     | (3    | DD       | MM   | YY   | нн | MM |
| R                      |                     |             | MIR |      |        |       | 12       | 4    | 2023 |    |    |

| CODE-1   | S1 to S21<br>Station Reference | D1 to \$3<br>Depot Reference | Kp XXX Note<br>For Kilometer point only Start Km is used |
|----------|--------------------------------|------------------------------|--|
| CODE - 2 |                                | Work Activity                | For knowleter point only start kin is used               |
| CODE - 3 |                                | Sub Element of Activity      |  |

| Desci  | ription of N       | laterials |   |              | Cursh                         | ed Sto                  | ne P.S.G.1 | LM  | aterial R  | esult  |           |
|--------|--------------------|-----------|---|--------------|-------------------------------|-------------------------|------------|-----|------------|--------|-----------|
| Locat  | ion to be U        | sed       | 518+100<br>517+640<br>517+780<br>514+140<br>514+340 | TO S<br>TO S | 517+780<br>517+900<br>514+340 | (+0.2<br>(+0.2<br>(0.50 | 5)<br>5)   |     |            |        |           |
| MAR    | Approval N         | 0         |   |              | P.S.G.1                       |                         |            |     | Date       |        |           |
| Suppl  | ier Name           |           |   |              |                               |                         |            | -   | -          |        |           |
| Test F | Requiremen         | nt        |   |              |                               | Specifi                 | cation     | -   | Clause     | 111. C |           |
| Refer  | ence Photo         | s         | Yes attach  | ed / N       | lo                            | Other                   |            |     |            |        |           |
| Item   |                    |           |   |              | Uni                           | t                       | Quantity   | TAD | rival Date | Note   |           |
| 1      | LL& P.L            | & O.M.C   | 0.M.C %   |              |                               |                         | 5000       |     | -04-2023   | Tiote  |           |
| 2      | Proctor            |           |   |              |                               | -                       | 5000       | -   | -04-2023   |        |           |
| 3      | Classifica         | tion      | an con-   |              | m3                            |                         | 5000       |     | -04-2023   |        |           |
| 4      | Sieve Ana          | lysis     |   |              | m3                            |                         | 5000       |     | -04-2023   |        |           |
| 5      | C.B.R              |           |   |              | m3                            |                         | 5000       |     | -04-2023   |        |           |
| 6      | L.A                |           |   |              | m3                            |                         | 5000       |     | -04-2023   |        |           |
| Comm   | nents by:          |           |   |              |                               | Co                      | mments by: | L   |            |        |           |
|        |                    |           |   |              | APPRO                         |                         |            | _   |            |        |           |
| Organ  | isation            | Name      |   |              | Sigr                          |                         | TUS        |     | Date       |        | A A14/C D |
| Contra |                    |           | hab Hamdi   |              | 5,61                          |                         | 0          | 23  | Date       |        | A-AWC-R   |
| QA/Q   | an/ac* phowellethe |           | .v.   | 70           | Ø                             | 2                       |            |     |            |        |           |
| GARB*  | * *                |           |   |              |                               | 1                       |            |     |            |        |           |
| Emplo  | yers<br>sentative  |           |   |              |                               |                         |            |     |            |        |           |



| Location Name             |                     | Contractor Company<br>Yousef Negida (1) |     |    |       | 1    |    | Desig                   | ner Comp | 0.001 |     |
|---------------------------|---------------------|---|-----|----|-------|------|----|-------------------------|----------|-------|-----|
| Electric express<br>train |                     |   |     |    |       |      |    | Designer Company<br>k.k |          |       |     |
| Issued by                 | Name                | Sign                                    |     |    | Date  |      |    | Time                    | Roduello |       |     |
| Contractor                | Eng/Shehab<br>Hamdi | -20                                     | P   |    | 12/4/ | 2023 |    | Time                    |          |       |     |
| Contractor<br>Reference   | 1                   | .G.1 YN(2)                              | 1-1 |    |       |      |    |                         |          |       |     |
| Received by ER            |                     |   |     | Cl | CZ    | C3   | DD | M                       | YY       | HH    | M   |
|                           |                     |   | MAR |    |       |      | 12 | 4                       | 2023     | 1     | IVI |

|            | The             | Following Test Result are At | tached For Review           |             |
|------------|-----------------|------------------------------|-----------------------------|-------------|
| Descriptio | on of Materials |                              | P.S.G.1 (A-1-a)             |             |
| Location t | o be Used       |                              | 514+515                     |             |
| Item       | Specification   | Test requirement             | Test result attachment      | 0           |
| 1          | ASTM D 75       | Aggregate Sampling           | According to specifications | Remarks     |
| 2          | ASTM C 136      | Sieve Analysis               | According to specifications |             |
| 3          | ASTM D 1440     | Passing Sieve, No 200        | 9.61 %                      |             |
| 4          | ASTM D 4318     | Atterberg limit              | N.P                         |             |
| 5          | ASTM D 2974     | Moisture content             | 6.8 %                       |             |
| 6          | ASTM D 1557     | Modified proctor             | 2.16                        |             |
| 7          | ASTM D 1883     | CBR                          | 50.1 %                      |             |
| 8          | AASHTO-T96      | L.A                          | 25.10 %                     |             |
| Comments   | by:             |                              | Comments by:                |             |
|            |                 |                              | Kenilyes                    | eller<br>19 |

|                             | APPR             | OVAL STATUS |      |           |
|-----------------------------|------------------|-------------|------|-----------|
| Organisation                | Name             | Sign        | Date | A A14/C P |
| Contractor                  | Eng/Shehab Hamdi | 10 D 3      | Date | A-AWC-R   |
| Contractor<br>QA/QC *       | that bet autor   | D           |      |           |
| GARB**                      |                  | 1           |      |           |
| Employers<br>Representative |                  |             |      |           |

\*\* Alignment/Bridges: Culvert only

|                               | Electric Express Train - HSR<br>From El Ain El Sokhne City To El Alemein - MATROUH | المناذ القوسة للإنفاق |
|-------------------------------|--|-----------------------|
| المغتب الاستشاري الهندسي      | Section - 7 From FOKA To MARSA MATROUH   | 6480) (The            |
| د خاد مند بل<br>Opresting tap | From Station 504+000 To Station 568+177  |                       |

#### PARTICLE SIZE DISTRIBUTION OF SOIL

| 10-04-2023      | code  | 20115           |                                |   |
|-----------------|---|-----------------|--------------------------------|---|
|                 | code  | ZONE            | 514+000                        | 518+500   |
| KP (514+515)    |   | Material        |                                |   |
| Vousef Nigida 1 | P.S.G Y.N (2)                                 |                 |                                |   |
| youser Nigita I |   | layer thickness |                                |   |
|                 | 10-04-2023<br>KP (514+515)<br>yousef Nigida 1 | KP (514+515)    | KP (514+515) PSGXN(2) Material | KP (514+515)         P.S.G Y.N (2)         Material |

1-visual inspection test

#### 2-Gradient test

2

| -gradation of bulk mat  | <u>erials</u> |       |        | SAMPLE V | VEIGHT [g] | 2431    | 0.00    | gm   |       | table classify |
|-------------------------|---------------|-------|--------|----------|------------|---------|---------|------|-------|----------------|
| sieve size              | 0             | 15.0  | 1      | 4/3      | 2/1        | 8/3     | #4      | PASS | ŀ     | soil classify  |
| Mass retained (g)       | 0.0           | 180.0 | 3495.0 | 1955.0   | 3180.0     | 1465.0  | 2915.0  |      | CLASS | A-1-a          |
| Cumulative Retained (g) | 0,0           | 180.0 | 3675.0 | 5630.0   | 8810.0     | 10275.0 | 13190.0 |      | PRO   | 2.16           |
| Cumulative Retained %   | 0.0           | 0.7   | 15.1   | 23.2     | 36.2       | 42.3    | 54.3    |      | WC    | 6.8            |
| Cumulative Passing %    | 100.0         | 99.3  | 84.9   | 76.8     | 63.8       | 57.7    | 45.7    |      | CBR   | 50.1           |
| B-soft material grad    | Indian        | 1     |        |          |            |         |         |      | L.A   | 25.10          |
| sieve size              | ation         |       |        | WT.OF    | sample     | 500     | .00     | gm   |       |                |

|                         |        |        |        | Sterre treatment. |      |      | area a | l gin |       |       |
|-------------------------|--------|--------|--------|-------------------|------|------|--------|-------|-------|-------|
| sieve size              | 10     | 40     | 200    |                   |      |      |        |       |       |       |
| Cumulative Retained (g) | 130.00 | 270.00 | 395.00 |                   |      |      |        |       |       |       |
| Cumulative Retained %   | 26.00  | 54.00  | 79.00  |                   |      |      |        |       |       |       |
| Cumulative Passing %    | 74.00  | 46.00  | 21.00  |                   |      |      |        |       |       |       |
| <u>C-General grad</u>   | lient  |        |        |                   |      |      |        |       | 1     |       |
| sieve size(in)          | 2      | 1.5    | 1      | 3/4               | 1/2  | 3/8  | #4     | # 10  | # 40  | # 200 |
| sieve size(mm)          | 50.0   | 37.5   | 25.0   | 19.0              | 12.5 | 9.5  | 4.75   | 2.00  | 0.425 | 0.075 |
| Cumulative Passing %    | 100.0  | 99.3   | 84.9   | 76.8              | 63.8 | 57.7 | 45.7   | 33.8  | 21.0  | 9.61  |
|                         |        |        |        |                   |      |      |        |       |       |       |
| ļ                       |        |        |        |                   |      |      |        |       |       |       |
|                         |        |        |        |                   |      |      |        |       |       |       |

| ATTERBERG  | LIQUID LIMIT ( L.L.) | PLASTIC LIMIT (P.L.) | PLASTIC INDEX (P.I.) |
|------------|----------------------|----------------------|----------------------|
| LIMTS      | N.L                  | N.P                  | N.PI                 |
| Contractor |                      |                      | Consultant           |
| 5-         |                      |                      | Yousset Rageb        |
|            |                      |                      |                      |
|            | Linger .             |                      |                      |

|  | Electric Express Train - HSR                       |              |                     |
|--|--|--------------|---------------------|
|  | From El Ain El Sokhna City To El Alamain - MATROUH | where a      |                     |
| Description (Description of Party Constraints) | Section - 7 From FOKA TO MARSA MATROUN             | the Block is | الهية الأبعة لإنفاق |
| WSTA SHARE                                     | From Station 504+000 To Station 688+177            |              |                     |

#### **MODIFED PROCTOR TEST ASTM D1557**

| TESTING DATE: | 11-04-2023  | code  | Station             | P44.000 |         |
|---------------|---|---|---------------------|---------|---------|
| LOCATION      | KP (514+515)  |   | Station             | 514+000 | 518+500 |
|               | KP (314+515)  | DECYMUN   | Material            |         |         |
| NAME COMPANY  | yousef Nigida 1   | P.S.G YN (2)  | layer thickness     |         |         |
|               | and the second se | and the second se | ing or this bill 33 |         |         |

| Weight of empty mold : | 5620.0 |
|------------------------|--------|
| Mold Volume:           | 2124.0 |

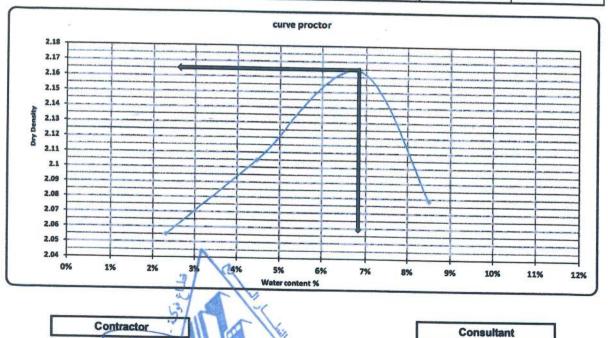
MAX Dry Density 2.16 Water content % 6.8%

Youssef R

90

| trial no :            | 1       | 2       | 3       | 4      |  |
|-----------------------|---------|---------|---------|--------|--|
| Wt. Of Mold+ wet soil | 10085.0 | 10290.0 | 10530.0 | 10410  |  |
| WT. WET SOIL          | 4465.0  | 4670.0  | 4910.0  | 4790.0 |  |
| Wt. Density           | 2.102   | 2.199   | 2.312   | 2.255  |  |

| Tare No.               | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     |  |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Tare wt.               | 55.3   | 53.2   | 54.22  | 53.6   | 5.85   | 55.35  | 53.25  | 55,3   |  |
| Wt. Of wet soil & tare | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  |  |
| Wt. Of dry soil & tare | 147.90 | 147.80 | 145.90 | 145.90 | 142.80 | 142.70 | 142.40 | 142.60 |  |
| Wt. Of water           | 2.1    | 2.2    | 4.1    | 4.1    | 7.2    | 7.3    | 7.6    | 7.4    |  |
| Wt. Of dry soil        | 92.6   | 94.6   | 91.7   | 92.3   | 137.0  | 87.4   | 89.2   | 87.3   |  |
| Water content %        | 2.3%   | 2.3%   | 4.5%   | 4.4%   | 5.3%   | 8.4%   | 8.5%   | 8.5%   |  |
| AV.Water content %     | 2.3    | %      | 4.5    | 5%     | 6.8    |        | 8.5    |        |  |
| Dry Density            | 2.0    | 55     | 2.1    | 05     | 2.1    | 64     | 2.0    |        |  |





#### Electric Express Train - HSR



#### **California Bearing Ratio TEST**

| Testing Date : | Testing Date : 12/4/2023 | Code         | FROM STA :        |         | F10 . F00 |
|----------------|--------------------------|--------------|-------------------|---------|-----------|
| Location :     | K.P (514+515)            |              | : Material        | 514+000 | 518+500   |
| Company Name   |                          | P.S.G YN (2) | : Material        |         |           |
| Company Name   | yousef Nigida 1          |              | : Layer Thickness |         |           |

#### -: Test Results

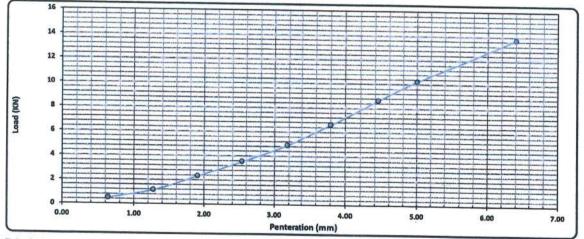
| Compaction % for Mold        |       |  |  |  |  |
|------------------------------|-------|--|--|--|--|
| Mold No.                     | 2     |  |  |  |  |
| Mold Vol. (cm <sup>3</sup> ) | 2215  |  |  |  |  |
| Mold WT. (gm)                | 5170  |  |  |  |  |
| Mold WT. + Wet WT. (gm)      | 10270 |  |  |  |  |
| Wet WT. (gm)                 | 5100  |  |  |  |  |
| Wet Density $(g/cm^3)$       | 2.302 |  |  |  |  |
| Dry Density $(g/cm^3)$       | 2.157 |  |  |  |  |
| Proctor Density $(g/cm^3)$   | 2.160 |  |  |  |  |
| Compaction %                 | 99.8  |  |  |  |  |

| Mositure Ratio After Compac | ted Molo |
|-----------------------------|----------|
| Tare No.                    | 4        |
| Tare WT. (gm)               | 35.3     |
| Tare WT. +Wet WT. (gm)      | 150      |
| Tare WT. +Dry WI. (gm)      | 144      |
| Water WT. (gm)              | 6.0      |
| Dry WT. (gm)                | 88.7     |
| Moisture Content %          | 6.8      |

| Swelling           |           |  |  |  |
|--------------------|-----------|--|--|--|
| Mold No.           | 2         |  |  |  |
| Date               | 12/4/2023 |  |  |  |
| Intial Height (mm) | 6.00      |  |  |  |
| Final Height (mm)  | 6.00      |  |  |  |
| Difference         | 0.00      |  |  |  |
| Sample Height (mm) | 120       |  |  |  |
| Swelling Ratio %   | 0.00%     |  |  |  |

#### Loading Reading :

| Penteration (mm)  | 0.64 | 1.27 | 1.91 | 2.54 | 3.18 | 3.80 | 4.45 | 5.00 | 6.40 |
|-------------------|------|------|------|------|------|------|------|------|------|
| Load Reading (Kg) | 55   | 130  | 260  | 395  | 545  | 735  | 960  | 1135 | 1525 |
| Load (KN)         | 0.5  | 1.2  | 2.3  | 3.6  | 4.9  | 6.6  | 8.6  | 10.2 | 13.7 |



#### Calculations : -Г

| <br>the second s | <br>_ |
|--|-------|
| the loss of the transmission of the set of   |       |

| Penteration | Lead  | Standard Load | CBR   | Mold - Compaction | Compaction | CBR          |
|-------------|-------|---------------|-------|-------------------|------------|--------------|
| (mm)        | (Kn)  | ( <b>I</b> b) | (%)   | (%)               | (%)        | % عد نسبة 98 |
| 2.50        | 3.56  | 13.4          | 26.6% | A                 |            | 26.1%        |
| 5.00        | 10.22 | 20.0          | 51.0% | 100               | 98         | 50,1%        |

Lab. Specialist Lab. Engi **Consultant Engineer** Name : Sign : Sig

| ENGINEERING CONSULTING OPPICE<br>المختب النستشاري الهندسي<br>آ.د. خالد مَندِيل |                 | Electric Expret<br>From El Ain El Soltinia City<br>Section - 7 From POKA<br>From Station Savage | TO MARSA MATROUN | . A 1.8 325 | الهبنة التبسة للنخان |
|--|-----------------|---|------------------|-------------|----------------------|
|  | Absorbtic       | Aggregate spe<br>AASHTO-T85   | cific gravity    |             |                      |
| TESTING DATE:  | 11/04/2023      | code  | Station          | 514+000     | 518+500              |
| LOCATION   | KP (514+515)    |   | Material         |             |                      |
| NAME COMPANY   | yousef Nigida 1 | P.S.G Y.N (2)   | layer thickness  |             |                      |

| Weight of sample                           | 2500 | gm |
|--|------|----|
| Weight of saturated surface dry sample (B) | 2534 | gm |
| Weight of saturated sample in water<br>(C) | 1465 | gm |
| Weight of dry sample after heating (A)     | 2480 | gm |

#### Results:-

| Bulk specific gravity = A / (B-C)    | 2.320 |   |
|--------------------------------------|-------|---|
| Apparent specific gravity = A /(A-C) | 2.443 |   |
| Asorbtion = ( B-A)/A                 | 2.177 | % |

Los Anglos Abrasion AASHTO-T96

#### **Results:-**Weight of sample before test (gm) Weight of sample after test (gm) Abrasion ratio (%) 5000 3745 25.10 1 Lab. Specialist Lab. Engineer Consultant Engineer Yourset Refat Name : Name : Name : Sign : Sign : Sign :



| Contractor<br>Company  | Yousef Negida       | (1)          |     | Des | igner ( | Compa       | any |      |      |    |    |
|------------------------|---------------------|--------------|-----|-----|---------|-------------|-----|------|------|----|----|
| Issued by              | Name                | Sign         |     | Dat | е       | 111 1101.00 |     | Time |      |    |    |
| Contractor             | Eng/Shehab<br>Hamdi | ree          | P   | 18/ | 4/2023  | 3           |     |      |      |    |    |
| Contractor<br>Refrence | P                   | .S.G.1 YN(3) |     |     |         |             |     |      |      |    |    |
| Received by            |                     |              |     | CI  | C2      | C3          | DD  | MM   | YY   | НН | MM |
| ER                     |                     |              | MIR |     |         |             | 18  | 4    | 2023 | -  |    |

| CODE-1   | S1 to S21<br>Station Reference | D1 to S3<br>Depot Reference | Kp XXX Note<br>For Kilometer point only Start Km is used |
|----------|--------------------------------|-----------------------------|--|
| CODE - 2 |                                | Work Activity               | For mometer point only start kin is used                 |
| CODE - 3 |                                | Sub Element of Activity     |  |

| Descr            | iption of N         | Materials |                      | Cu       | irsh | ed Sto         | ne P.S         | 5.G.1          | Ma   | aterial R | esult    |             |
|------------------|---------------------|-----------|----------------------|----------|------|----------------|----------------|----------------|------|-----------|----------|-------------|
|                  |                     |           | 516+460<br>516+480   | то<br>то |      | 516+4<br>516+5 |                | 0.25-<br>0.25- |      |           |          |             |
|                  |                     |           | 514+700              | TO       |      | 514+8          | 00             | 0.25           | +    |           |          |             |
| Locati           | on to be l          | Icod      | 514+800              | то       |      | 514+90         | 00             | 0.25           | +    |           |          |             |
| LUCati           | UN LO DE L          | Jseu      | 514+500              | то       |      | 514+64         | 10             | 0.25           | ٠    |           |          |             |
|                  |                     |           | 516+300              | то       |      | 516+35         | 0              | 0.25-          | ÷    |           |          |             |
|                  |                     |           | 516+350              | то       |      | 516+46         | 50             | 0.25           | ۲    |           |          |             |
|                  |                     |           | 514+900              | то       |      | 515+04         | 10             | 0.5+           |      |           |          |             |
|                  |                     |           | 518+360              | то       |      | 518+50         | 00             | 0.5+           |      |           | <i>W</i> |             |
| MAR              | IAR Approval No P.S |           | S.G.1                | YN(3)    |      |                | 1              | Date           |      |           |          |             |
| Suppli           | er Name             |           |                      |          |      |                |                |                |      |           |          |             |
| Test Requirement |                     |           | Specification Clause |          |      |                |                |                |      |           |          |             |
| Refere           | ence Photo          | DS        | Yes attach           | ed / No  |      | Other          |                |                |      |           |          |             |
| Item             | Descript            | ion       |                      |          | Uni  | t              | Qua            | ntity          | Arri | ival Date | Note     |             |
| 1                | L.L & P.L           | & O.M.C   | %                    |          | m3   |                | 5000           |                | 18-  | 04-2023   |          |             |
| 2                | Proctor             |           |                      |          | m3   |                | 5000           | )              | 18-  | 04-2023   |          |             |
| 3                | Classifica          | ation     |                      |          | m3   |                | 5000           | )              | 18-  | 04-2023   |          |             |
| 4                | Sieve An            | alysis    |                      | _        | m3   |                | 5000           | )              | 18-  | 04-2023   |          |             |
| 5                | C.B.R               |           |                      |          | m3   |                | 5000           | )              | 18-  | 04-2023   |          |             |
| 6                | L.A                 |           |                      |          | m3   |                | 5000           |                | 18-  | 04-2023   |          |             |
| Comm             | nents by:           |           |                      |          |      | C              | ommen          | ts by:         |      |           |          |             |
|                  |                     |           |                      |          |      |                | *- <u>+-</u> - |                |      |           |          |             |
|                  |                     |           |                      | A        | PPRC | VAL ST         | ATUS           |                |      |           |          | ada disarra |
| Organ            | isation             | Name      |                      |          | Sig  | n              |                |                |      | Date      |          | A-AWC-R     |
| Contra           | actor               | Eng/ Sh   | ehab Hamdi           | l        |      | e              | 0              |                | 0    |           |          |             |
| QA/Q             | C *                 | Anne      | A Abo7               | ai'd     | A    | in e           | 44             |                |      |           |          |             |



| Location Name             | (                   | Contractor Company    |       |     | contractor company |      |    | Designer Company |      |    |  |
|---------------------------|---------------------|-----------------------|-------|-----|--------------------|------|----|------------------|------|----|--|
| Electric express<br>train |                     | Yousef Negida (1) k.k |       |     |                    |      |    |                  |      |    |  |
| Issued by                 | Name                | Sign                  |       | Dat | e                  |      |    | Time             | 1000 |    | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Contractor                | Eng/Shehab<br>Hamdi | 10                    | P     | :   | 12/4/              | 2023 |    |                  |      |    |  |
| Contractor<br>Reference   | Ρ.                  | S.G YN(3)             |       |     | entralita da       |      |    |                  |      |    |  |
| Received by ER            |                     |                       | MAR   | C1  | C2                 | C3   | DD | M<br>M           | YY   | нн | M  |
|                           |                     |                       | IVIAR |     |                    |      | 18 | 4                | 2023 |    |  |

| Description of Materials |               | P.S.G.1 (A-1-a)       |                             |         |  |  |  |  |
|--------------------------|---------------|-----------------------|-----------------------------|---------|--|--|--|--|
| Location to I            | be Used       | 514+515               |                             |         |  |  |  |  |
| Item                     | Specification | Test requirement      | Test result attachment      | Remarks |  |  |  |  |
| 1                        | ASTM D 75     | Aggregate Sampling    | According to specifications |         |  |  |  |  |
| 2                        | ASTM C 136    | Sieve Analysis        | According to specifications |         |  |  |  |  |
| 3                        | ASTM D 1440   | Passing Sieve, No 200 | 10.75 %                     |         |  |  |  |  |
| 4                        | ASTM D 4318   | Atterberg limit       | N.P                         |         |  |  |  |  |
| 5                        | ASTM D 2974   | Moisture content      | 6 %                         |         |  |  |  |  |
| 6                        | ASTM D 1557   | Modified proctor      | 2.18                        |         |  |  |  |  |
| 7                        | ASTM D 1883   | CBR                   | 48.7 %                      |         |  |  |  |  |
| 8                        | AASHTO-T96    | LA                    | 32.70 %                     |         |  |  |  |  |
| Comments b               | γ:            |                       | Comments by:                |         |  |  |  |  |

|                             | A                | PPROVAL STATUS | The States | And the second second |
|-----------------------------|------------------|----------------|------------|-----------------------|
| Organisation                | Name             | Sign           | Date       | A-AWC-R               |
| Contractor                  | Eng/Shehab Hamdi | ~ A            |            |                       |
| QA/QC *                     | - PINP           | An def         |            |                       |
| GARB**                      |                  |                |            |                       |
| Employers<br>Representative |                  |                |            |                       |

\* Designer

\*\* Alignment/Bridges: Culvert only

|                     |                       | Electric Express Train - HSR<br>Ain El Soltina City To El Alamein - MATROUH<br>tion - 7 From FOKA To MARSA MATROUH | يدند<br>لة التحدة الإنطاقي المراجع  |
|---------------------|-----------------------|--|---|
| ا ۱۳۵۶ اد. داد تنبل | THE PARTY OF          | From Station 504+000 To Station 568+177  |   |
| Opreating lap       | Al Tawkol Central Lab |  | Long to the second s |

PARTICLE SIZE DISTRIBUTION OF SOIL

| TESTING DATE: | TING DATE: 16-04-2023 code |               | ZONE            | 514+000          | 518+500  |  |
|---------------|----------------------------|---------------|-----------------|------------------|----------|--|
| LOCATION      | KP (514+515)               |               | Material        | Prepard Subgrade |          |  |
| NAME COMPANY  | yousef Nigida 1            | P.S.G Y.N (3) | layer thickness | ropara           | oubgrade |  |

1-visual inspection test

#### 2-Gradient test

| A-gradation of bulk ma  | terials |        |        | SAMPLE | WEIGHT [g] | 3015    | 4.00                                  | gm   |        | table classi |
|-------------------------|---------|--------|--------|--------|------------|---------|---------------------------------------|------|--------|--------------|
| sieve size              | 0       | 1.5    | 1      | 4/3    | 2/1        | 8/3     | #4                                    | PASS |        | soil classif |
| Mass retained (g)       | 0.0     | 854.0  | 3214.0 | 3456.0 | 2541.0     | 3654.0  | 3965.0                                |      | CLASS  | A-1-a        |
| Cumulative Retained (g) | 0.0     | 854.0  | 4068.0 | 7524.0 | 10065.0    | 13719.0 | 17684.0                               |      | PRO    | 2.18         |
| Cumulative Retained %   | 0.0     | 2.8    | 13.5   | 25.0   | 33.4       | 45.5    | 58.6                                  |      | WC     | 6.0          |
| Cumulative Passing %    | 100.0   | 97.2   | 86.5   | 75.0   | 66.6       | 54.5    | 41.4                                  |      | CBR    | 48.7         |
|                         |         |        |        |        |            |         | and the local data is a second second |      | L.A    | 32.70        |
|                         |         |        |        |        |            |         |                                       |      | Absorb | 3.46         |
| B-soft material gra     | dation  |        |        | WT.OF  | sample     | 500     | .00                                   | gm   |        |              |
| sieve size              | 10      | 40     | 200    |        |            |         |                                       |      |        |              |
| Cumulative Retained (g) | 115.00  | 240.00 | 370.00 |        | -          |         |                                       |      |        |              |
| Cumulative Retained %   | 23.00   | 48.00  | 74.00  |        |            |         | -                                     |      |        |              |
| Cumulative Passing %    | 77.00   | 52.00  | 26.00  |        |            |         |                                       |      |        |              |
| C-General grad          | ient    |        |        |        |            |         |                                       |      |        | 2            |
| sieve size(in)          | 2       | 1.5    | 1      | 3/4    | 1/2        | 3/8     | #4                                    | # 10 | # 40   | # 200        |
| sieve size(mm)          | 50.0    | 37.5   | 25.0   | 19.0   | 12.5       | 9.5     | 4.75                                  | 2.00 | 0.425  | 0.075        |
| Cumulative Passing %    | 100.0   | 97.2   | 86.5   | 75.0   | 66.6       | 54,5    | 41.4                                  | 31.8 | 21.5   | 10.75        |
|                         |         |        |        |        |            | 14.1    |                                       |      |        |              |
| Γ                       |         |        |        | 0      |            |         |                                       |      |        |              |

| ATTERBERG  | LIQUID LIMIT ( L.L.) | PLASTIC LIMIT (P.L.) | PLASTIC INDEX (P.I.) |
|------------|----------------------|----------------------|----------------------|
| LIMTS      | N.L                  | N.P                  | N.PI                 |
| Contractor |                      |                      | Consultant           |
|            |                      |                      | Ant                  |
|            |                      |                      |                      |



Electric Express Train - HSR

From El Ain El Solonna City To El Alamain - MATROUH

Section - 7 From FOKA TO MARSA MATROUH



2.18

#### MODIFED PROCTOR TEST ASTM D1557

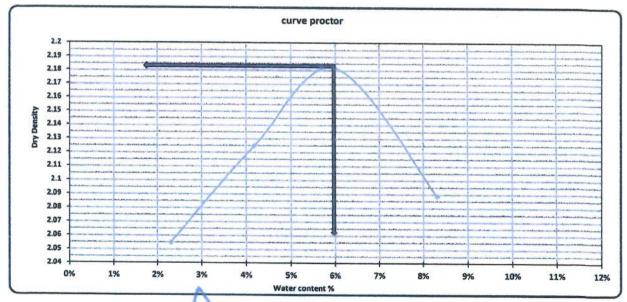
From Station 30-000 To Station 568-177

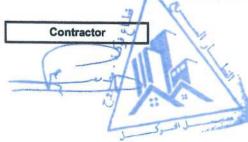
| TESTING DATE: | 16-04-2023      | code          | Station         | 514+000  | 518+500 |
|---------------|-----------------|---------------|-----------------|--|---------|
| LOCATION      | KP (514+515)    |               | Material        | Prepard Subgrade   |         |
| NAME COMPANY  | yousef Nigida 1 | P.S.G Y.N (3) | layer thickness | and the second | B       |

| Weight of empty mold : | 5620,0 | MAX Dry Density |
|------------------------|--------|-----------------|
| Mold Volume:           | 2124.0 | Water content % |

| trial no :            | 1       | 2       | 3       | 4      |  |
|-----------------------|---------|---------|---------|--------|--|
| Wt. Of Mold+ wet soil | 10085.0 | 10321.0 | (0532.0 | 10425  |  |
| WT. WET SOIL          | 4465.0  | 4701.0  | 4912.0  | 4805.0 |  |
| Wt. Density           | 2,102   | 2.213   | 2.313   | 2.262  |  |

| Tare No.               | 21     | 22     | 23     | 24     | 10     | 11     | 12     | 13     |  |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Tare wt.               | 56.3   | 52.63  | 54.22  | 53.6   | 55.68  | 55.41  | 52.36  | 52.14  |  |
| Wt. Of wet soil & tare | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  | 150.0  |  |
| Wt. Of dry soil & tare | 147.90 | 147.80 | 146.10 | 146.20 | 144.60 | 144.70 | 142.40 | 142.60 |  |
| Wt. Of water           | 2.1    | 2.2    | 3.9    | 3.8    | 5.4    | 5.3    | 7.6    | 7.4    |  |
| Wt. Of dry soil        | 91.6   | 95.2   | 91.9   | 92.6   | 88.9   | 89.3   | 90.0   | 90.5   |  |
| Water content %        | 2.3%   | 2.3%   | 4.2%   | 4.1%   | 6.1%   | 5.9%   | 8.4%   | 8.2%   |  |
| AV.Water content %     | 2.3    | 3%     | 4.2    | 2%     | 6.0    | )%     | 8.3    | %      |  |
| Dry Density            | 2.0    | )55    | 2.1    | 25     | 2.1    | 82     | 21     | 89     |  |





Consultant

|  | Electric Express frain - HSR                    |                                   |
|--|---|-----------------------------------|
|  | From EI Am & Solance City To El Alamem - MATROU | Labora Labora                     |
|  | Section - I Prom POKA To MARSA MATROUH          | المرية الممدة الإطاب المحمد عليهم |
| ENGINEERING CONSULTING OFFICE  | From Station 584-000 To Station 368-177         | onen and                          |
| المنتخصة المختب الاستشاري الوئـدسي المراجعي الوئـدسي الوئـدسي المادين المنتخبي |   | 100                               |

Absorbtion & Aggregate specific gravity AASHTO-T85

| TESTING DATE: | 19/04/2023      | ebba          | Station         | 514+000 518-     |  |
|---------------|-----------------|---------------|-----------------|------------------|--|
| LOCATION      | KP (514+515)    |               | Material        | Prepard Subgrade |  |
| NAME COMPANY  | yousef Nigida 1 | P.S.G Y.N (3) | layer thickness |                  |  |

| Weight of sample                           | 2500 | gm |
|--|------|----|
| Weight of saturated surface dry sample (B) | 2545 | gm |
| Weight of saturated sample in water<br>(C) | 1340 | gm |
| Weight of dry sample after heating (A)     | 2460 | gm |

#### **Results:-**

| Bulk specific gravity = A / (B-C)    | 2.041 |   |
|--------------------------------------|-------|---|
| Apparent specific gravity = A /(A-C) | 2.196 |   |
| Absorbtion = ( B-A)/A                | 3.46  | % |

Los Anglos Abrasion AASHTO-T96

#### Results:-

| Weight of sample before test (gm) | Weight of sample after test (gm) | Abrasion ratio (%)  |
|-----------------------------------|----------------------------------|---------------------|
| 5000                              | 3365                             | CE 32.70            |
|                                   | - Er                             |                     |
| Lab. Specialist                   | Lab. Engineer                    | Consultant Engineer |
| Name :                            | Name:                            | Name: //m at        |
| Sign :                            | Sign                             | Sign :              |
|                                   |                                  |                     |
|                                   | ودسسل                            |                     |



#### Electric Express Train - HSR



#### California Bearing Ratio TEST

| Testing Date ;   | 18/4/2023       | Contra   | 1                 | T                |          |
|--|-----------------|--|-------------------|------------------|----------|
|  |                 | Code   | FROM STA :        | 514+000          | 518+500  |
| Location :   | K.P (514+515)   |  | : Material        | Prepard Subgrade |          |
| Company Name   | yousef Nigida 1 | P.S.G Y.N (3)  |                   | Preparo Subj     | Subgrade |
| and the second s |                 | Care and the second | : Layer Thickness |                  |          |

#### -: Test Results

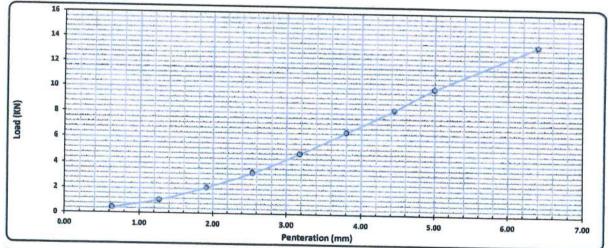
| Compaction % for Mold            |       |
|----------------------------------|-------|
| Mold No.                         | 1     |
| Mold Yol. (Cm <sup>3</sup> )     | 2120  |
| Mold WT. (gm)                    | 5310  |
| Mold WT. + Wet WT. (gm)          | 10210 |
| Wet WT. (gm)                     | 4900  |
| Wet Density (g/cm <sup>3</sup> ) | 2.311 |
| Dry Density $(g/cm^3)$           | 2.181 |
| Proctor Density $(g/cm^3)$       | 2.180 |
| Compaction %                     | 100.0 |

| Mositure Ratio After Compac | ted Mold |
|-----------------------------|----------|
| Tare No.                    | 6        |
| Tare WT. (gm)               | 46.13    |
| Tare WT. +Wet WT. (gm)      | 150      |
| Tare WT. +Dry WT. (gm)      | 144.05   |
| Water WT. (gm)              | 5.3      |
| Dry WT. (gm)                | 89.3     |
| Moisture Content %          | 6.0      |

| Swelling           |           |
|--------------------|-----------|
| Mold No.           | 1         |
| Date               | 18-4/2023 |
| Intial Height (mm) | 4.50      |
| Final Height (mm)  | 4.50      |
| Difference         | 0.00      |
| Sample Height (mm) | 120       |
| Swelling Ratio %   | 0.00%     |

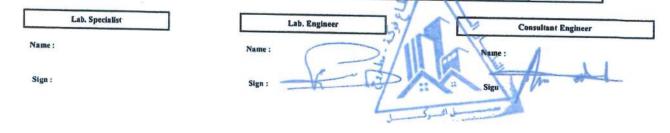
#### Loading Reading :

| Penteration (mm)  | 0.64 | 1,27 | 1.91 | 2,54 | 3.18 | 3.80 | 4.45 | 5.00 | 6.40 |
|-------------------|------|------|------|------|------|------|------|------|------|
| Load Reading (Kg) | 50   | 120  | 231  | 362  | \$32 | 720  | 920  | 1105 | 1496 |
| Load (KN)         | 0.5  | 1,1  | 2,1  | 3.3  | 4.8  | 6.5  | 8.3  | 0.0  | 13.5 |



#### Calculations : -

| Penteration | Load | Standard Load | CBR   | Mold - Compaction | Compaction | CBR           |
|-------------|------|---------------|-------|-------------------|------------|---------------|
| (mm)        | (Kn) | (Ib)          | (%)   | (%)               |            |               |
| 2.50        | 3.26 | 13.4          | 24.4% | (//)              | (%)        | % عند نسبة 98 |
| 5.00        | 9.95 |               |       | 100               | 98         | 23.9%         |
|             | 110  | 20.0          | 49.7% | - 12              |            | 48.7%         |





| Company                 | Yousef Negida      | (1)         |     | Des | igner ( | Comp | any | Τ    |      |    |    |
|-------------------------|--------------------|-------------|-----|-----|---------|------|-----|------|------|----|----|
| Issued by<br>Contractor | Name<br>Eng/Shehab | Sign        |     | Dat | -       |      |     | Time | 2    |    |    |
| Contractor<br>Refrence  | Hamdi              | S.G.1 YN(4) | P   | 12/ | 4/202   | 3    |     |      |      |    |    |
| Received by<br>ER       |                    |             |     | 61  | Q       | a    | DD  | MM   | YY   | НН | MM |
|                         |                    |             | MIR |     |         |      | 2   | 5    | 2023 |    |    |

| CODE - 2            | 53 to 521<br>Martinen Radiarantea | D1 to 53<br>Depat Reference | Xp XXX Note<br>For Xilometer point only Start Km is used |
|---------------------|-----------------------------------|-----------------------------|--|
| COOR - 2            |                                   | Work Activity               | I wanter of punt only start kin is used                  |
| and a second second |                                   | Sub Element of Activity     |  |

|        |              |          |                    |          |                | and the second second |        |   |       |           |
|--------|--------------|----------|--------------------|----------|----------------|-----------------------|--------|---|-------|-----------|
| Descr  | iption of Ma | steriats |                    | Cu       | urshed         | Stone P.              | 5.G.1  | Material R  | esult |           |
| Locati | ion to be Us | ed       | 517+860<br>518+100 | TO<br>TO | 518+1<br>518+3 | 0 (0.50+              | )      |   |       |           |
| MAR    | Approval No  | ,        |                    | P.       | 5.G.1 YM       | (4)                   |        | Date  | 1     |           |
| Suppli | ier Name     |          |                    |          | 1              |                       |        |   |       |           |
| Test R | equirement   |          |                    |          | Si             | ecification           |        | Clause  |       |           |
| Refere | ence Photos  |          | Yes attache        | d / No   | 0              | ther                  |        |   |       |           |
| ltem   | Descriptio   |          |                    |          | Unit           | Qua                   | ntity  | Arrival Date  | Note  | urray th  |
| 1      | LLEPLE       | 0.M.C    | N                  |          | m3             | 5000                  |        | 02-05-2023  | TING  |           |
| 2      | Proctor      |          |                    |          | m3             | 5000                  | )      | 02-05-2023  |       |           |
| 3      | Classificati | ion      |                    |          | Em             | 5000                  | 0      | 02-05-2023  | 1     |           |
| 4      | Sieve Anal   | ysis     |                    |          | m3             | 5000                  | 0      | 02-05-2023  |       |           |
| 5      | C.B.R        |          |                    |          | m3             | 5000                  |        | 02-05-2023  | -     |           |
| 6      | LA           |          |                    |          | m3             | 500                   | 0      | 02-05-2023  | 1     |           |
| Comm   | ents by:     | B B G    |                    |          |                | Commen                | ts by: | ALL AND         |       | 1000      |
|        |              |          |                    |          |                | تل                    |        | ي الم من الموقة<br>المقال المالية<br>المقال المالية | to a  | العامل    |
|        | -            |          |                    |          |                |                       |        | 6   | 0000  | حوالي بم  |
| S Date |              |          | Contraction of     | A        |                | L STATUS              |        | South the second                                    | 233   | NALCH NO. |
| Organi | isation      | Name     |                    |          | Sign           |                       |        | Date  |       | A-AWC-R   |

| Organisation   | Name              | Sign      |      | 1       |
|----------------|-------------------|-----------|------|---------|
| organisation   | Name              | Jight     | Date | A-AWC-R |
| Contractor     | Eng/ Shehab Hamdi | 1 ~ a     | P    |         |
| QA/QC •        |                   | · the top |      |         |
| GARB**         |                   |           |      |         |
| Employers      |                   |           |      |         |
| Representative |                   |           |      |         |

• Designer

\*\* Alignment / Bridges: Culvert Only

File: MIR P.S.G.1 YN(4)

| AL | M   | 1  |
|----|-----|----|
| BI | ROV | H  |
| E  | N.  | QU |
| MM | d   | R  |
|    | 4   |    |





|   |   | a<br>n |
|---|---|--------|
|   |   |        |
| 4 | 6 | are    |
| 6 | 2 | 15     |

| A REAL PROPERTY OF THE REAL PR | 5                   | Contractor Company | ynedi | Lease and | ALL L               | -    | 3 | Design | Designer Company | IN | 200 |
|--|---------------------|--------------------|-------|-----------|---------------------|------|---|--------|------------------|----|-----|
| Electric express<br>train  |                     | Yousef Negida (1)  | 1)    |           |                     |      |   |        | ĸĸ               |    |     |
| leened buy   | Name                | Sign               |       | Date      |                     |      | F | Time   |                  |    | 1   |
| Contractor   | Eng/Shehab<br>Hamdi | q                  | 9     | 0         | 05/05/2023          | 2023 |   |        |                  |    |     |
| Contractor<br>Reference  | 2,9                 | P.S.G YN(4)        |       |           |                     | -    |   |        |                  |    |     |
|  |                     |                    |       | 3         | и<br>8 0 0 10<br>10 | 8    | 8 | XX     | ж                | ¥  | 2 2 |
| veceived by EK   |                     |                    | MAR   |           |                     |      | 2 | 2      | 2023             |    |     |

| 1 21 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | The                      | The Following Test Result are Attached For Review | ached For Review            | and the set of        |
|--|--------------------------|---|-----------------------------|-----------------------|
| Description                              | Description of Materials |   | P.S.G.1 (A-1-a)             |                       |
| Location to be Used                      | be Used                  |   | 514+515                     |                       |
| Item                                     | Specification            | Test requirement                                  | Test result attachment      | Remarks               |
| 1  | ASTM D 75                | Aggregate Sampling                                | According to specifications |                       |
| 2  | <b>ASTM C 136</b>        | Sieve Analysis                                    | According to specifications |                       |
| m  | <b>ASTM D 1440</b>       | Passing Sieve, No 200                             | 11.51 %                     |                       |
| 4  | ASTM D 4318              | Atterberg limit                                   | A.P                         |                       |
| s  | ASTM D 2974              | Moisture content                                  | 73 %                        |                       |
| 9  | ASTM D 1557              | Modified proctor                                  | 2.18                        |                       |
| 7  | ASTM D 1883              | CBR   | 98.2 %                      | 8                     |
| 80                                       | AASHTO-T96               | LA  | 33.20 %                     |                       |
| Comments by:                             | oy:                      | come make in the set of the                       | Comments by:                | and the second second |
|  |                          |   |                             |                       |
|  |                          |   | ×                           |                       |
|  |                          |   |                             |                       |

| and and a literation        | Martin and a state of the state | AFFAUVALSIAIUS | and the second second |         |
|-----------------------------|--|----------------|-----------------------|---------|
| Organisation                | Name   | Sign           | Date                  | A-AWC-R |
| Contractor                  | Eng/Shehab Hamdi   | Jer            |                       |         |
| QA/QC *                     | - 1/1 8 him  | for set        |                       |         |
| GARB**                      |  |                |                       |         |
| Employers<br>Representative |  |                |                       |         |
| Designer                    |  |                |                       |         |

File: MAR P.S.G.1 YN(4)

Page 1 of 1

| The second se | Electric Express Train - HSR<br>From El Ain El Sokhna City To El Alamein - MATROUH<br>Section - 7 From FOKA To MARSA MATROUH<br>From Station 804+000 To Station 868+177<br>Al Tawkol Central Lab | s Train - HSR<br>o El Alamein - MATROUH<br>o MARSA MATROUH | To Station 848+177 |  |
|---|--|--|--------------------|--|
|---|--|--|--------------------|--|

## PARTICLE SIZE DISTRIBUTION OF SOIL

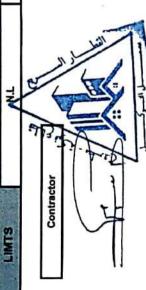
| TESTING DATE:                   | 30-04-2023      | code                         | ZONE            | C141000 |          |
|---------------------------------|-----------------|------------------------------|-----------------|---------|----------|
|                                 |                 |                              | FOR             | 0001410 | 518+500  |
| LOCATION                        | KP (514+515)    | and the second second second | Material        | Prepard | Subgrade |
| NAME COMPANY                    |                 | P.S.G Y.N (4)                |                 |         | onsigano |
| INVITION THAT                   | youser Nigida 1 | at the second second second  | layer thickness |         |          |
| <b>1-visual inspection test</b> |                 |                              |                 |         |          |

## 2-Gradient test

| <u>A-gradation of bulk materia</u> | aterials |        |        | SAMPLE | SAMPLE WEIGHT [9] | 228:    | 22825.00 | Ē    |       | table classify |
|------------------------------------|----------|--------|--------|--------|-------------------|---------|----------|------|-------|----------------|
| sieve size                         | 0        | 1.5    | -      | 4/3    | 21                | 8/3     | #4       | PASS |       | soil classify  |
| Mass retained (g)                  | 0.0      | 1550.0 | 3960.0 | 2230.0 | 1705.0            | 1400.0  | 2595.0   |      | CLASS | A-1-a          |
| Cumulative Retained (g)            | 0.0      | 1550.0 | 5510.0 | 7740.0 | 9445.0            | 10845.0 | 13440.0  |      | PRO   | 2.18           |
| Cumulative Retained %              | 0.0      | 6.8    | 24.1   | 33.9   | 41.4              | 47.5    | 58.9     |      | ŴĊ    | 7.2            |
| Cumulative Passing %               | 100.0    | 93.2   | 75.9   | 66.1   | 58.6              | 52.5    | 41.1     |      | CBR   | 98.2           |
|                                    | -        |        |        |        |                   |         |          |      | P     | 33.20          |

| B-soft material gradation | <u>adation</u> |        |        | WT.OF | WT.OF sample | 20(  | 500.00 | Ē    |       |       |
|---------------------------|----------------|--------|--------|-------|--------------|------|--------|------|-------|-------|
| sleve size                | 10             | 40     | 200    |       |              |      |        |      |       |       |
| Cumulative Retained (g)   | 95.00          | 210.00 | 360.00 |       |              |      |        |      |       |       |
| Cumulative Retained %     | 19.00          | 42.00  | 72.00  |       |              |      |        |      |       |       |
| Cumulative Passing %      | 81.00          | 58.00  | 28.00  |       |              |      |        | -    |       |       |
| <b>C-General gradient</b> | fient          |        |        |       |              |      |        |      |       |       |
| sieve size(in)            | 2              | 1.5    | -      | 3/4   | 112          | 3/8  | #4     | # 10 | # 40  | # 200 |
| sleve size(mm)            | 50.0           | 37.5   | 25.0   | 19.0  | 12.5         | 9.5  | 4.75   | 2.00 | 0.425 | 0.075 |
| Cumulative Passing %      | 100.0          | 93.2   | 75.9   | 66.1  | 58.6         | 52.5 | 41.1   | 33.3 | 23.8  | 11.51 |
|                           |                |        |        |       |              |      |        |      |       |       |

|   |     | PLASTIC INDEX (P.L)  | I.PI  |       | Consultant |
|---|-----|----------------------|-------|-------|------------|
| 1 |     | FLASTIC LIMIT (P.L.) | N.P   |       |            |
|   | 5.0 | רוסחום הואנע (דידי)  | TIN   | 2/ 12 |            |
|   |     | ATTERBERG            | LIMTS |       | Contractor |



| lectric Exp | From El Ain El Solthra C | n - 7 from for | Station 3041   |
|-------------|--------------------------|----------------|----------------|
| 3           | nam El Ain               | -Section       | From           |
| 11 77 7     |                          |                | and the second |
|             |                          | -              |                |
|             | 1                        | 2              | evara B        |

Electric Express Train - HSR m El An El Seithne City To El Alamein - MATROUH Section - 7 from FOKA TO MARSA MATROUH from Station 594+000 To Station 563+117



# MODIFED PROCTOR TEST ASTM D1557

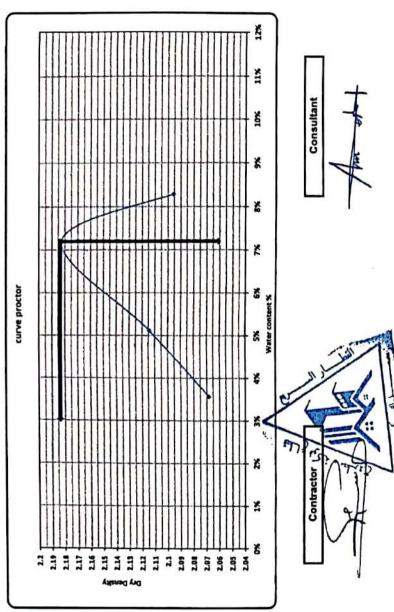
| TING DATE: | 30-04-2023      | code         | Station         | 514+000   | 518+50.0 |
|------------|-----------------|--------------|-----------------|-----------|----------|
| OCATION    | KP (514+515)    |              | Material        | Prepard S | Subgrade |
| E COMPANY  | vousef Nigida 1 | 1+14"1 0'0'4 | layer thickness |           |          |

| LUUR PRINT |
|------------|
|------------|

| ALL UNY DEBID | 2.18 |
|---------------|------|
| r content %   | 871  |

| trial no :            | -       | 1       | •       |        |
|-----------------------|---------|---------|---------|--------|
| WL. Of Mold+ wet will | 10170.0 | 10340.0 | er06501 | 10440  |
| WT. WET SOIL          | 4350.0  | 4720.0  | 4970.0  | 4820.0 |
| Wt. Density           | 2.142   | 1171    | 045.5   | 3.269  |

| Tare No.               | 8     | 15     | n      | =      | 10         |        | 1      | 5      | - which have |
|------------------------|-------|--------|--------|--------|------------|--------|--------|--------|--------------|
| Tare wt.               | 55.44 | 86.48  | 94.76  | 9755   | 16.62      | 1935   | 52.8   | 56.26  |              |
| WI. Of wet soil & tare | 150.0 | 150.0  | 150.0  | 150.0  | 0.921      | 07051  | 07051  | 150.0  | C. M. C.     |
| Wi. Of dry soil & tare | 15441 | 146.94 | 145.65 | 145.03 | 143.70     | 143.60 | 142.82 | 142.58 | 123          |
| WL. Of water           | 3.5   | 3.1    | 2      | 5.0    | 3          | 64     | 2.7    | 1.4    |              |
| Wt. Of dry soll        | 1.14  | 97.6   | 9.04   | 116    | 18.3       | 6.7.8  | 0.09   | 1,63   |              |
| Water content %        | %8°C  | ***    | ***    | 3.4%   | 7.1%       | *67    | 8.0%   | 8.6%   |              |
| AV,Water content %     | 3.6   | 3.6%   | 15     | 31%    | <b>E</b> 1 | ****   | 78     | *5     |              |
| Dry Density            | 2.065 | 3      | 2.114  | -      | 21         | 2.183  | 3.0    | 2.096  |              |



| XX | Same learned |
|----|--------------|

Electric Express Train - HSR



## **California Bearing Ratio TEST**

| sting Date : | 2/5/2023        | Code       | FROM STA :        | 514+000    | 518+500  |
|--------------|-----------------|------------|-------------------|------------|----------|
|              | K.P (514+515)   | Derve 141  | 1 Material        | Prepard St | Subgrade |
|              | yousef Nigida 1 | Ist states | : Layer Thickness |            |          |

### -: Test Results

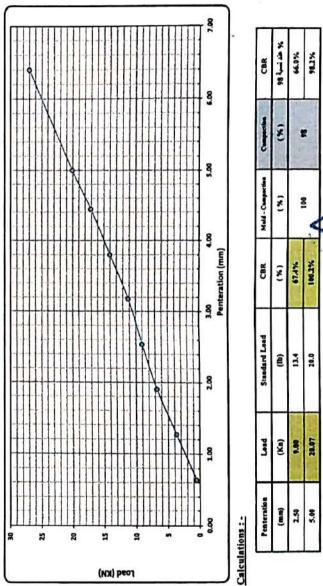
|                       | 5        | 2166                        | 1812          | 01.84                   | 5048         | 122.1                            | 2.181                            | 2.180                                | 100.0        |
|-----------------------|----------|-----------------------------|---------------|-------------------------|--------------|----------------------------------|----------------------------------|--------------------------------------|--------------|
| Compaction % for Mold | Mold No. | Maki Vek (cm <sup>2</sup> ) | Mold WT. (gm) | Mold WT. + Wet WT. (gm) | Wei WT. (gm) | Wet Deality (g/cm <sup>3</sup> ) | Dry Density (g/cm <sup>3</sup> ) | Proctor Density (g/cm <sup>3</sup> ) | Compaction % |

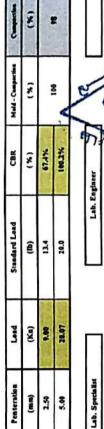
| Mositure Ratio After Compacted Mold | ed Mold |
|-------------------------------------|---------|
| Ture No.                            | \$      |
| Tare WT. (gm)                       | SLUX.   |
| Tare WT. +Wet WT. (gm)              | 150     |
| Tare WT. +Dry WT. (gm)              | 143.6   |
| Water WT. (gm)                      | 6.4     |
| Dry WT. (gm)                        | £.98    |
| Moisture Content %                  | 12      |

| Swelll<br>Mold No.<br>Date<br>Date<br>Istal Height (mm)<br>Final Height (mm)<br>Difference<br>Sample Height (mm) |
|--|
|--|

## Loading Reading :

| Penteration (mm)  | 0.64 | 1.27 | 16.1 | 134  | 3.18 | 3.80 | 4.45 | 5.00 | 6.40 |
|-------------------|------|------|------|------|------|------|------|------|------|
| Load Reading (Kg) | 8    | 410  | 150  | 1000 | 1240 | 1568 | 0061 | BCZZ | 3000 |
| Lond (KN)         | 0.5  | 3.7  | 8.8  | 0.6  | 11.2 | 14.0 | 1.11 | 20.1 | 27.0 |





Consultant Engine

Vame

Name :

Sign :

Name:

| Meaning Consulting Orner | Frem El Am El Sostana Cry 10 El Ammen - WATROUN<br>Sestion - 7 from FOKA 1a MARIA, MATROUN<br>From Stellon 500-000 To Station 500-17 | HENE WE |
|--------------------------|--|---------|
|--------------------------|--|---------|

| TESTING DATE: | 30-04-2023      | code          | Station  | 514+000 | 518+500  |
|---------------|-----------------|---------------|----------|---------|----------|
| LOCATION      | KP (514+515)    |               | Material | Prepard | subgrade |
| IAME COMPANY  | yousef Nigida 1 | P.S.G Y.N (4) | quantity | 500     | 5000 m   |

## Results:-

| Weight of sample before test (gm) | Weight of sample after test (gm) | Abrasion ratio (%) |
|-----------------------------------|----------------------------------|--------------------|
| 5000                              | 3340                             | A 33.20            |
| Lab. Specialist                   | Lab. Englacer                    | Some Lifeigeer     |
| Name :                            | Name:                            | - W                |
| Sign :                            | Sign: Hit H                      |                    |

4

.



| Contractor<br>Company  | Yousef Negida       | (1)         |     | Desi      | gner | Comp | any |      |      |    |    |
|------------------------|---------------------|-------------|-----|-----------|------|------|-----|------|------|----|----|
| issued by              | Name                | Sign        |     | Date      | •    |      |     | Time |      |    |    |
| Contractor             | Eng/Shehab<br>Hamdi | SIL         | 2   | 17/5      | /202 | 3    |     |      |      |    |    |
| Contractor<br>Refrence | Р.                  | S.G.1 YN(5) | _   |           |      |      |     |      |      |    |    |
| Received by            |                     |             | 1   | <b>C1</b> | Q    | G    | DD  | MM   | YY   | нн | MM |
| ER                     |                     |             | MIR |           |      |      | 17  | 5    | 2023 |    |    |

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

| Desc           | ription of M | aterials           | (                 | Cursh         | ed Stor  | e P.S.G.S | 5 Material R | lesult |                       |
|----------------|--------------|--------------------|-------------------|---------------|----------|-----------|--------------|--------|-----------------------|
|                |              |                    | 517+640 51        | 7+860         | 0.50+    |           |              |        |                       |
|                |              |                    | 514+500 51        | 4+640         | 0.50+    |           |              |        |                       |
|                |              |                    | 516+300 51        | 6+350         | 0.50+    |           |              |        |                       |
| Locat          | ion to be U  | sed                | 516+350 510       | 6+480         | 0.50+    |           |              |        |                       |
|                |              |                    | 516+480 510       |               |          |           |              |        |                       |
|                |              |                    | 514+700 514       |               |          |           |              |        |                       |
|                |              |                    | 514+800 514       | 4+900         |          |           |              |        |                       |
| MAR            | Approval N   | 0                  |                   | P.S.G.1       | YN(5)    |           | Date         | T      |                       |
| Suppl          | ler Name     |                    |                   |               | 1        |           |              |        |                       |
|                | Requiremen   | t                  |                   |               | Specific | ation     | Clause       |        |                       |
| Refer          | ence Photo   | s                  | Yes attached / No | 0             | Other    |           |              |        |                       |
| Item           | Descriptio   | n                  | PROPERTY INCOME.  | Un            | it       | Quantity  | Arrival Date | Note   | and the second second |
| 1              | L.L & P.L &  | & O.M.C            | %                 | m3            |          | 5000      | 14-05-2023   |        |                       |
| 2              | Proctor      |                    |                   | m3            |          | 5000      | 15-05-2023   |        |                       |
| 3              | Classificat  | lion               |                   | m3            |          | 5000      | 14-05-2023   |        |                       |
| 4              | Sieve Ana    | lysis              |                   | m3            |          | 5000      | 14-05-2023   |        |                       |
| 5              | C.B.R        |                    |                   | m3            |          | 5000      | 17-05-2023   | -      |                       |
| 6              | L.A & Abs    | orption            |                   | m3            |          | 5000      | 16-05-2023   |        |                       |
| Comn           | nents by:    | Contraction of the | PROPERTY AND      |               | Co       | mments by |              | -      |                       |
|                |              |                    |                   |               |          | 7146      |              |        |                       |
| and the second | A Astrony    | Billing.           | The Tart Inter    | ACCOUNTS OF A | OVAL STA | 105       | L Data       | 1000   | A A14/C D             |
|                | hisation     | Name               |                   | Sig           | n<br>S   | .1.0. >   | Date         |        | A-AWC-R               |
| Contr          |              |                    | ehab Hamdi        | -             | -        | 101       |              |        |                       |
| QA/Q           | C *          | y . 4 35 0         | y Rago            | 7             | . ssef   | Kald      | ь            |        |                       |
|                |              |                    |                   |               |          |           |              |        |                       |

| GARB**    |
|-----------|
| Employers |

Representative

Designer
 Alignment / Bridges: Culvert Only

File: MIR P.S.G.1 YN(5)

Page 1 of 1

| and the state of the second second | A DUN RAWLY                            |   |  |                               |                  |                  |
|------------------------------------|--|---|--|-------------------------------|------------------|------------------|
| MATERIAL<br>APPROVAL<br>REQUEST    | Lefa e likipa e likipa Lika<br>Transco |   | ארידער בוער בער ארידער איז | الميثة القومية الأنفاق<br>الم |                  | SVSTCA B- SWAKER |
| Location Name                      |  | Contractor Company                                | mpany  | 1992 N. 1993                  | Designer Company | mpany            |
| Electric express<br>train          | SS                                     | Yousef Negida (1)                                 | da (1)   |                               | k.k              |                  |
|                                    | Name                                   | Sign  | No. Con Allon  | Date                          | Time             | and applying     |
| Issued by<br>Contractor            | Eng/Shehab<br>Hamdi                    | In  | د هراز   | 17/05/2023                    |                  |                  |
| Contractor<br>Reference            |  | P.S.G VN(5)                                       |  |                               |                  |                  |
| Received by ER                     |  |   | MAR  | 3<br>0<br>13                  |                  | ₩ ₩<br>₩         |
| •                                  |  |   |  | 11                            | 5 2023           | 3                |
| 1                                  | The                                    | The Following Test Result are Attached For Review | sult are Atta  | iched For Review              | and the second   |                  |
| Description of Materials           | 214 N 197                              | 0   | Prep   | Prepared Subgrade (A-1-a)     | -1-a)            |                  |
| Location to be Used                | Used                                   |   |  | 514+515                       |                  |                  |
| Item                               | Specification                          | Test requirement                                  | nt   | Test result attachment        | hment            | Remarks          |
| 1                                  | ASTM D 75                              | Aggregate Sampling                                | ampling  | According to specifications   | ications         |                  |
| 2                                  | ASTM C 136                             | Sieve Analysis                                    | alysis   | According to specifications   | ications         |                  |
| 9                                  | <b>ASTM D 1440</b>                     | Passing Sieve, No 200                             | , No 200   | 11.2 %                        |                  |                  |
| 4                                  | <b>ASTM D 4318</b>                     | Atterberg limit                                   | limit  | N.P                           |                  |                  |
| 2                                  | ASTM D 2974                            | Moisture content                                  | ontent   | 7.4 %                         |                  |                  |
| 9                                  | <b>ASTM D 1557</b>                     | Modified proctor                                  | roctor   | 2.185                         |                  |                  |
| 7                                  | ASTM D 1883                            | CBR   |  | 83.9 %                        |                  | *17              |
| 8                                  | AASHTO-T96                             | LA  |  | 30 %                          |                  |                  |
| 6                                  | AASHTO-T85                             | Absorption  | ion  | %4.178                        |                  |                  |
| Comments by:                       |  | and the second                                    |  | Comments by:                  | The second       |                  |
|                                    |  |   |  |                               |                  |                  |
|                                    |  | Cagav   | APPDOVAL STATIS  |                               |                  |                  |
| Organisation                       | Name                                   | -   | Sign   |                               | Date             | A-AWC-R          |
| Contractor                         | Eng/Shehab Hamdi                       |   | PIC  | ~                             |                  |                  |
| QA/QC *                            | Yoursef & a gab                        |   | Youssy Ragab   | defe !!                       |                  |                  |
| GARB**                             |  |   |  | -                             |                  |                  |

Employers Representative • Designer •• Alignment/Bridges: Culvert only GARB\*\*

File: MAR P.S.G.1 YN(5)

Page 1 of 1

|                           | and the states  | Electric Express Irain - HSR   | uln - HSR                        | たちへんとうこと       |           |
|---------------------------|-----------------|--|----------------------------------|----------------|-----------|
| Para Marine San           | Fron            | From Et Am El Sokhina City To El Alemein - MATROUN<br>Section - 7 From FOKA To MARSA MATROUH | Alamein - MATROUH<br>ASA MATROUH | Han Phan Han   |           |
| anues - a statut a statut |                 | From Statton \$04+000 To Station 568+177   | 111-895 uona                     | State and a    | a walk    |
| ab Negida Central Lab     | itral Lab       |  |                                  | a sector state |           |
| PARTIC                    | CLE SIZE DIS    | PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE  | <b>FARED SUBGR</b>               | ADE            | P. Dord   |
| FESTING DATE:             | 14-5-2023       | Code   |                                  | FROM STATION   | TO STATIC |
| LOCATION K                | KP 514+515      |  | Zone                             |                |           |
| NAME COMPANY YOUS         | YOUSEF NEGIDA 1 | laulut   |                                  | 514+000        | 518+500   |

## 2-Gradient test

YOUSEF NEGIDA 1

MPANY

NAME CO

1-Visual Inspection test

| A-aradation of bulk materials | teriais |       |        | SAMPLE      | SAMPLE WEIGHT [g] | 197    | 19798.00 | шð   | Tab               | Table classify |
|-------------------------------|---------|-------|--------|-------------|-------------------|--------|----------|------|-------------------|----------------|
| sieve size                    | 2       | 1.5   | -      | <b>4</b> 13 | 21                | £/8    | # 4      | PASS | Soil Class Hy     | Ala            |
| Mass retained (g)             | 0.0     | 555.0 | 1853.0 | 2724.0      | 1481.0            | 2108.0 | 3551.0   |      | PRO               | 2.185          |
| Cumulative Retained (g)       | 0.0     | 555.0 | 2408.0 | 5132.0      | 6613.0            | 8721.0 | 12272.0  |      | wc                | 1,40           |
| Cumulative Retained %         | 0.0     | 2.8   | 122    | 25.9        | Ytt               | 44.0   | 62.0     |      | CBR               | 83.92%         |
| Cumutative Passing %          | 100.0   | 97.2  | 87.8   | 74.1        | 66.6              | 56.0   | 38.0     |      | Los Angles        | 30             |
|                               |         |       |        |             |                   |        |          |      | SPECIFIC .Gravity | 2354           |

| B-soft material gradation      | on     |        |        | WT.OF sample | ample | 20 | 500.00 | Ę |
|--------------------------------|--------|--------|--------|--------------|-------|----|--------|---|
| sieve size                     | 10     | 40     | 200    |              |       |    |        |   |
| Cumulative Retained (g) 110.00 | 110.00 | 264.00 | 353.00 |              |       |    |        |   |
| Cumulative Retained % 22.00    | 22.00  | 52.80  | 70.60  |              |       |    |        |   |
| Cumulative Passing % 78.00     | 78.00  | 47.20  | 29.40  |              |       |    |        |   |

| <b>C-General gradient</b> |       |      |       |         |      |         |      |        |       |       |
|---------------------------|-------|------|-------|---------|------|---------|------|--------|-------|-------|
| sieve size(in)            | 2     | 1.5  | ÷     | 3/4     | 112  | 3/8     | 84   | # 10   | # 40  | # 200 |
| sieve size(mm)            | 50.0  | 37.5 | 25.0  | 19.0    | 12.5 | 9.5     | 4.75 | 2.00   | 0.425 | 0.075 |
| Cumulative Pessing %      | 100.0 | 97.2 | 87.8  | 1792    | 66.6 | 56.0    | 38.0 | 1.62   | E11   | 11.2  |
| SPECIFICATION             | J     | 97   | 11- V | 70 - 75 | -    | 15 - 60 |      | 0 - 35 | -     | 0-12  |
|                           |       |      |       |         |      |         |      |        |       |       |
|                           |       |      |       |         |      |         |      |        |       |       |
|                           |       |      |       |         |      |         |      |        |       |       |

| PLASTIC INDEX (P.L.) | NP   |  |
|----------------------|--|--|
| PLASTIC LIMIT (P.L.) | State of the state |  |
|                      | EMTS   |  |

Consultant Yourss of Rafals 13/100 ~ 3) Contractor < 1 N

| ROCTORTEST (REPARED SUBGRADE)       Iteration in the interval inte  | ROOCTOR TEST (REPARED SUBGRADE)       Iteration     Iteration     Iteration     Iteration     Iteration       Iteration     Iteration     Iteration     Iteration     Iteration       Iteration     Iteration     Iteration     Iteration       Iteration     Iteration     Iteration     Iteration       Iteration     Iteration     Iteration     Iteration       Iteration     Iteration     Iteration       Iteration     Iteration     Iteration       Iteration     Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration       Iteration     Iteration  | A the solution of the solution  | TOR TJ<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12   | EST (<br>1003)<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11 | PREP  | AREI<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M<br>M                   | D SUF  | 3GRA  | DE)<br>ROM<br>44000<br>44000<br>131<br>277<br>217<br>1300            | 10<br>2184500<br>€<br>188500   |
|--|--|---|--|--|---|---|--|-------|--|--|
| 15-2023         Code         FROM         TO           YUND5F KEIGIA1         YUND5         544-00         514-50         518-50           YUND5F KEIGIA1         YUND5         562.3         YUND5         514-50         518-50           YUND5         S62.3         YUND5         YUND5         562.3         YUND5         514-50         518-50           YUND5         S62.3         YUND5         YUND5         YUND5         YUND5         514-50         518-50           YUND5         S62.3         YUND5         YUND5         YUND5         YUND5         514-50         518-50         <  | 15-2023         Code         FOUH         TO           YUNP06         314-010         314-010         314-010         314-010           YUNP06         3123         YUNP06         314-010         314-010         314-010           YUNP06         3123         YUNP06         314-010         314-010         314-010         314-010           YUNP06         3123         YUNP06         312-0         YUNP06         314-010         314-010           YUNP07         3123         YUNP06         312-0         YUNP06         314-010         314-010           YUNP07         3123         YUNP06         312-0         YUNP06         314-010         314-010           YUNP07         3123         YUNP06         312-0         YUNP06         314-010           YUNP07         YUNP07         YUNP07         YUNP06         YUNP07         YUNP06           YUNP07         YUNP07         YUNP07         YUNP07         YUNP07         YUNP07           YUNP07         YUNP07         YUNP07         YUNP07         YUNP07         YUNP07           YUNP07         YUNP07         YUNP07         YUNP07         YUNP07         YUNP07           YUNP07         YUNP07  | in the second se  | 15<br>5652.0<br>5652.0<br>5652.0<br>2125.0<br>2125.0<br>10102.0<br>10102.0<br>10102.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1100.0<br>1100.0<br>1100.0<br>1100.0<br>1100.0<br>110 | YNG CC CC T10031 1130 11033 1130 11033 1130 11033 1130 11033 1130  | P=6)<br>P=6)<br>17<br>17<br>1310<br>1310<br>1310<br>1310<br>1310<br>1310<br>131                   |   | One (AX Dry De Vater conte 90.0 90.0 91.0 140.9 150.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0 9 |       | ROM<br>4+000<br>4+000<br>8495<br>843.0<br>130.0<br>150.0             | 218+500<br>518+500   |
| PAVIV         Contraction         Steeded  | NUMBAL         NUMBAL         State13         NUMBAL   | ry mold :<br>i i i i i i i i i i i i i i i i i i i  | 15<br>5652.0<br>5652.0<br>2125.0<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>1<br>2<br>0<br>4<br>1<br>1<br>1<br>2<br>1<br>2<br>0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | YNK<br>1035<br>1143.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0  | P-6)<br>1<br>17<br>17<br>130.0<br>130.0<br>130.0<br>131.0<br>131.0<br>131.0<br>131.0              |   | Die Vater conte Vater conte 140.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0                      |       | 4+000<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4 | 518+500  |
| Might of rango molei         353.3         MXX Dry Duelly         2138         MXX Dry Duelly         MXX   | Might of rango molei         382.3         MXX Dry Duelly         318.9         MXX Dry Duelly         MXX Dry Duelly         318.9         MXX Dry Duelly         MXX Dry D   |   | 100101-  | 1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0   | 1<br>210<br>210<br>211<br>211<br>211<br>112<br>112<br>112<br>112<br>11                            |   | AX Dry De<br>Vater contes<br>90.0<br>946<br>140.9<br>9.1<br>9.1                            |       | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                | Juss   |
| Mold Volume:         113.0         Mare contract, N         Mare contract, N <t< td=""><td>Mold Volume:         113.0         Marc contant, %         Marc contant, %</td><td>4123</td><td>77</td><td>112.0 113 123 123 123 123 123 123 123 123 123</td><td>17<br/>17<br/>180.0<br/>190.0<br/>112.0<br/>112.0<br/>112.0<br/>112.0</td><td></td><td>Vater conter<br/>3 3<br/>90.0<br/>946.0<br/>140.9<br/>9.1<br/>9.1</td><td></td><td>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td><td><ul> <li>Image: Image: Ima</li></ul></td></t<> | Mold Volume:         113.0         Marc contant, %   | 4123  | 77   | 112.0 113 123 123 123 123 123 123 123 123 123  | 17<br>17<br>180.0<br>190.0<br>112.0<br>112.0<br>112.0<br>112.0                                    |   | Vater conter<br>3 3<br>90.0<br>946.0<br>140.9<br>9.1<br>9.1                                |       | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                | <ul> <li>Image: Image: Ima</li></ul> |
| India         India <th< td=""><td>India:     I     3     3     4       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1092.0     1093.0       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1092.0     1093.0       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1093.0     1003.0       W. Of Maid* Weikdi     1     1     1     1     1     1       Tare No.     7     1     1     1     1     1       M. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0       M. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line</td><td></td><td>10101</td><td>2<br/>103<br/>103<br/>103<br/>113<br/>113<br/>113<br/>113<br/>113<br/>113<br/>113</td><td>1<br/>210<br/>00<br/>00<br/>00<br/>01<br/>17<br/>130.0<br/>142.9<br/>142.9<br/>142.9<br/>123.0</td><td>100<br/>100<br/>115<br/>10.0<br/>10.0<br/>110.0<br/>110.0<br/>1110</td><td>3<br/>642.0<br/>90.0<br/>348<br/>140.9<br/>9.1</td><td></td><td>4<br/>6995<br/>143.0<br/>132<br/>132<br/>132.0<br/>150.0</td><td></td></th<>  | India:     I     3     3     4       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1092.0     1093.0       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1092.0     1093.0       W. Of Maid* weikdi     1012.0     1092.0     1092.0     1093.0     1003.0       W. Of Maid* Weikdi     1     1     1     1     1     1       Tare No.     7     1     1     1     1     1       M. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0       M. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line     12.0     12.0     12.0     12.0     12.0     12.0     12.0       W. Of Marielli Line   |   | 10101  | 2<br>103<br>103<br>103<br>113<br>113<br>113<br>113<br>113<br>113<br>113  | 1<br>210<br>00<br>00<br>00<br>01<br>17<br>130.0<br>142.9<br>142.9<br>142.9<br>123.0               | 100<br>100<br>115<br>10.0<br>10.0<br>110.0<br>110.0<br>1110                             | 3<br>642.0<br>90.0<br>348<br>140.9<br>9.1  |       | 4<br>6995<br>143.0<br>132<br>132<br>132.0<br>150.0                   |  |
| W. Of Made weild         Net1a         1091.0         1091.0         1091.0         1091.0         1093.0 <t< td=""><td>W. Christer metal         1012.4         1092.3         1064.3         1064.5</td><td>7<br/>423<br/>460<br/>1900<br/>1900<br/>1900<br/>1900<br/>1900<br/>1900<br/>1900<br/>19</td><td>10101</td><td>103<br/>474<br/>474<br/>474<br/>13<br/>51,6<br/>139,0<br/>139,0<br/>139,0<br/>139,0<br/>139,0<br/>139,0<br/>139,0</td><td>92.0<br/>0.0<br/>17<br/>17<br/>53.3<br/>53.3<br/>130.0<br/>142.9<br/>142.9<br/>142.9</td><td>100<br/>113<br/>113<br/>1130.0<br/>1130.0<br/>1130.0<br/>1130.0<br/>1130.0<br/>1130.0<br/>1131.0</td><td>42.0<br/>90.0<br/>348<br/>140.9<br/>9.1</td><td></td><td>8495<br/>143.0<br/>1279<br/>13.0<br/>150.0</td><td></td></t<>   | W. Christer metal         1012.4         1092.3         1064.3         1064.5   | 7<br>423<br>460<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>19   | 10101  | 103<br>474<br>474<br>474<br>13<br>51,6<br>139,0<br>139,0<br>139,0<br>139,0<br>139,0<br>139,0<br>139,0  | 92.0<br>0.0<br>17<br>17<br>53.3<br>53.3<br>130.0<br>142.9<br>142.9<br>142.9                       | 100<br>113<br>113<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1130.0<br>1131.0 | 42.0<br>90.0<br>348<br>140.9<br>9.1  |       | 8495<br>143.0<br>1279<br>13.0<br>150.0                               |  |
| WT.WET SOLL         4930         C103         9930         6413         2131         2135         2135           W. Dauly         1004         101         1 <td>WT.WET SOLL         4930         C403         6900         4130           W. Penny         2.04         2.11         2.44         2.11         2.14         2.13         2.14         2.13         2.14         2.15         2.13         2.15         2.14         2.15</td> <td>1400<br/>1400<br/>1400<br/>1400<br/>11460<br/>11460</td> <td>1.04</td> <td>474<br/>2.2<br/>2.3<br/>53.6<br/>139.0<br/>139.0<br/>139.0<br/>139.0<br/>139.0</td> <td>0.0<br/>17<br/>17<br/>18.0<br/>180.0<br/>142.0<br/>142.0<br/>142.0<br/>142.0</td> <td>494<br/>130,9<br/>130,0<br/>130,0<br/>140,1<br/>140,1<br/>131,0</td> <td>90.0<br/>345<br/>46.2<br/>150.0<br/>140.9<br/>9.1</td> <td></td> <td>13.0<br/>279<br/>32<br/>150.0<br/>150.0</td> <td></td>  | WT.WET SOLL         4930         C403         6900         4130           W. Penny         2.04         2.11         2.44         2.11         2.14         2.13         2.14         2.13         2.14         2.15         2.13         2.15         2.14         2.15  | 1400<br>1400<br>1400<br>1400<br>11460<br>11460  | 1.04   | 474<br>2.2<br>2.3<br>53.6<br>139.0<br>139.0<br>139.0<br>139.0<br>139.0   | 0.0<br>17<br>17<br>18.0<br>180.0<br>142.0<br>142.0<br>142.0<br>142.0                              | 494<br>130,9<br>130,0<br>130,0<br>140,1<br>140,1<br>131,0                               | 90.0<br>345<br>46.2<br>150.0<br>140.9<br>9.1   |       | 13.0<br>279<br>32<br>150.0<br>150.0                                  |  |
| W. Bnelly         L344         L344         L344         L345         L344         L345   | W. Benly         Z34         237         238         237           Trev No.         1  | 7<br>423<br>424<br>19460<br>19460<br>448<br>7460<br>7460<br>7460  | 107  |  | 11<br>71<br>83.2<br>89.0<br>1190.0<br>117<br>1.7<br>1.7<br>1.7<br>1.7<br>1.7<br>1.0<br>1.0<br>1.0 |   | 948<br>462<br>150.0<br>1409<br>9.1   | ~     |  |  |
| Trevi.     7     19     11     17     18     60     31     33       Trevi.     423     441     514     513     909     443     603     134       Wi Of versielid Line:     1340     1340     1340     1340     1343     1343     1343       Wi Of versielid Line:     1340     1343     1343     1343     1343     1343     1343       Wi Of versielid Line:     1340     1324     1343     1343     1343     1343     1343       Wi Of versielid Line:     1340     1324     1343     1343     1343     1343     1343       Wi Of versier     4.0     1314     132.0     131.0     131.0     131.0     131.0     131.0       Wi Of versier     4.1     1345     345     345     345     345     345       Wite content %     315%     315%     347     348     348     348       Wite content %     315%     346     346     348     348       Wite content %     315%     346     346     346       Wite content %     314     348     346     346       Wite content %     314     348     348     348       Mate content %     3   | TrevN.     7     19     13     13     13     13     13       TrevN.     421     431     936     930     930     930     931     931       Correnation     421     431     936     1930     1930     1930     1933     1933       W. Offeryaalit     arrev     431     133     1334     1333     1333     1333     1333       W. Offeryaalit     arrev     43     1334     1334     1334     1333     1334     1334       W. Offeryaalit     1334     1335     1335     1334     1334     1334     1333     1334       W. Offeryaalit     1335     1335     1335     1334     1334     1334     1334       W. Offeryaalit     1334     1334     1334     1334     1334     1334     1334       W. Offeryaalit     1334     1335     1335     1334     1334     1334     1334       W. Offeryaalit     1334     1334     1334     1334     1334     1334       W. Offeryaalit     1334     1334     1334     1334     1334       W. Offeryaalit     1334     1334     1334     1334       W. Offeryaalit     1334     1334     13  | 7 422 159.0 159.0 159.0 123.0 1 |  | 13<br>130.0<br>143.0<br>143.0<br>143.0   | 71<br>5.68<br>6.081<br>9.041<br>1.7<br>1.7  | 15<br>30.9<br>150.0<br>140.1<br>9.2<br>9.2  | 46.2<br>150.0<br>140.9   |       | 32<br>81.7<br>150.0  |  |
| Tarvet.         421         441         51.6         53.1         30.9         42.1         41.1         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3         11.1         11.3 <t< td=""><td>Thread:         421         441         51.6         51.3         30.9         42.1         81.7         <t< td=""><td>423<br/>159.0<br/>146.0<br/>123.0<br/>23.3<br/>23.4</td><td></td><td>53.6<br/>150.0<br/>143.0<br/>7.0<br/>123.0</td><td>53.1<br/>150.0<br/>142.9<br/>7.1<br/>123.0</td><td>30.9<br/>150.0<br/>140.1<br/>2.2</td><td>462<br/>150.0<br/>140.9</td><td>5</td><td>150.0</td><td></td></t<></td></t<>   | Thread:         421         441         51.6         51.3         30.9         42.1         81.7 <t< td=""><td>423<br/>159.0<br/>146.0<br/>123.0<br/>23.3<br/>23.4</td><td></td><td>53.6<br/>150.0<br/>143.0<br/>7.0<br/>123.0</td><td>53.1<br/>150.0<br/>142.9<br/>7.1<br/>123.0</td><td>30.9<br/>150.0<br/>140.1<br/>2.2</td><td>462<br/>150.0<br/>140.9</td><td>5</td><td>150.0</td><td></td></t<>  | 423<br>159.0<br>146.0<br>123.0<br>23.3<br>23.4  |  | 53.6<br>150.0<br>143.0<br>7.0<br>123.0   | 53.1<br>150.0<br>142.9<br>7.1<br>123.0  | 30.9<br>150.0<br>140.1<br>2.2   | 462<br>150.0<br>140.9  | 5     | 150.0  |  |
| Nr. Of verteil & Lerc     1500   | R. Of versel & arc     130     130     130     130     130     130     130       N. Of dry valit     146     140     140     140     140     140     131     111     111       N. Of dry valit     131     131     131     131     131     131     131       N. Of dry valit     1310     1310     1310     1310     1310     1310     1310       N. Of dry valit     1315     1316     1310     1310     1310     1310     1310       N. Of dry valit     1315     1316     1310     1310     1310     1310     1310       N. Of dry valit     1315     1310     1310     1310     1310     1310     1310       N. Of dry valit     1315     1310     1310     1310     1310     1310     1310       N. Of dry valit     1315     1310     1310     1310     1310     1310     1310   | 150.0<br>140<br>141<br>141<br>141<br>141<br>141<br>141  |  | 150.0<br>143.0<br>7,0<br>123.0   | 150.0<br>142.9<br>7.1<br>123.0  | 150.0<br>1.01<br>2.2<br>0.121   | 150.0<br>140.9   | \$0.7 | 150.0  |  |
| M. Ofdryneir     1430     1430     1430     1431     1131       Matter content 'A     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1  | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  | 1460  |  | 143.0<br>7.0<br>123.0  | 1.1.<br>1.1<br>0.611  | 140.1<br>2.2<br>0.121   | 140.9  | 150.0 |  |  |
| W. Of rater         4a         4.1         1.2         1.1         1.15         1.11         1.15         1.11         1.15         1.11         1.15         1.10         1.13         1.14         1.15         1.14         <  | W. Of mater         4a         4.1         2.a         7.1         8.2         8.1         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5         11.1         11.5 <th< td=""><td>0,4<br/>0,411<br/>2,411</td><td></td><td>0.EEL</td><td>1.7</td><td>5.5</td><td>1.6</td><td>0.861</td><td>C.8C.1</td><td></td></th<>   | 0,4<br>0,411<br>2,411   |  | 0.EEL  | 1.7   | 5.5   | 1.6  | 0.861 | C.8C.1   |  |
| W. Ofdrysell         1236  | W. Of dry reli         12.0         12.10  | 0.111<br>%.CL   |  | 123.0  | 0.021   | 123.0   |  | гн    | 11.5   |  |
| Water content %         J3%  | Witer content %         J3%         5%         J3%         5%         J3%         93%         <  | %ft   | - 12   | Ī  |   |   | 0.621  | 0.621 | 123.0  |  |
| WWMer contrart%         J3%         5%         7%         9.1%           Dry Deally         100         110         110         116         208           Dry Deally         1201         110         116         208         100           110         110         110         116         208         100           110         110         110         116         100         100           110         110         0         0         0         0           110         110         0         0         0         0           110         0         0         0         0         0         0           110            | WWMer contrart%         J3%         5%         7%         9.1%           Dry Deally         100         110         110         2.08         9.1%           Dry Deally         100         110         2.08         9.1%         9.1%           Dry Deally         100         100         2.08         9.1%         9.1%           Dry Deally         100         100         100         100         100           110         110         100         100         100         100           110         110         0         0         0         0         0           110         100         0         0         0         0         0         0           110           | +   | 756  | 5.7%   |   | 13%   | 7.A%   | %0.6  |  |  |
| Dry Detaily 100 116 100 116 100 100 100 100 100 100  | Dry Deally 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14   | y Density   |  | 5.73   | *   | 71  | *1   |       |  |  |
| Contractor<br>Contractor   | Contractor<br>Contractor   |   | 1.027  | 1  |   | 11  | 98   | ភ     | 88   |  |
| Contractor   | Contractor   |   |  | 5  | ve proctor  |   |  |       |  |  |
| Contractor   | Contractor   | 77  |  |  |   |   |  | -     |  |  |
| Contractor   | Contractor   | 67  |  |  |   |   | K  |       |  |  |
| Contractor   | Contractor   |   |  | Ī  |   | X   | 1  |       |  |  |
| Contractor   | Contractor<br>Contractor   | 217   |  |  |   | 1   |  |       |  |  |
| Contractor   | Contractor<br>Contractor   |   |  |  |   | 1   |  |       |  |  |
| Contractor   | Contractor   |   |  |  |   | $\downarrow$  |  |       |  |  |
| Contractor   | Contractor<br>Contractor   |   |  |  |   |   |  | +     |  |  |
| 211<br>211<br>211<br>211<br>211<br>211<br>211<br>211   | Contractor<br>Contractor   |   |  |  | 1   |   |  | +     |  |  |
| Contractor   | Contractor<br>Contractor<br>Contractor<br>Contractor<br>Consultant<br>Consultant<br>Consultant<br>Consultant<br>Consultant<br>Consultant   |   |  |  | K   |   |  | 1     |  |  |
| Contractor   | Contractor   |   |  |  | 1   |   |  | 4     |  |  |
| Contractor   | Contractor<br>Contractor   | 607   |  |  |   |   |  |       |  |  |
| Contractor   | Contractor<br>Contractor   | 707   |  |  |   |   |  |       |  |  |
| Contractor   | Contractor<br>Contractor   | 206   |  | X  |   |   |  |       |  |  |
| Contractor   | Contractor<br>Contractor   | 2.05  | X  |  |   |   |  |       |  |  |
| Contractor   | State         State <th< td=""><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  | 100   |  |  |   |   |  |       |  |  |
| 3%     1%     5%     6%     7%     8%     9%     10%     11%       3%     1%     5%     6%     7%     8%     9%     10%     11%       Mater content %     7%     6%     7%     6%     11%     11%       Contractor     2     0     1     0     0     0   | N         1x         xx         xx </td <td>87</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | 87  | •  |  |   |   |  |       |  |  |
| %         1x         2x         3x         6x         7x         6x         7x         6x         11x           Water content x         Water content x         Water content x         Contractor         Contractor         Consultant         Cont         Consultant         Con   | N         1x         2x         5x         5x         5x         5x         5x         5x         1x           Nater content x         Nater content x         Nater content x         Contractor         Contractor         Consultant         Image: A and a back and a b | 107   |  |  | Ť   |   |  |       |  |  |
| Water content X  | Water content X<br>Const   | XI X  |  |  |   |   |  |       | ¥61  |  |
| Const  | Consi<br>4 outset  |   |  |  | ttent 7   |   |  |       |  |  |
| Const  | Const.   |   |  |  |   |   |  |       |  |  |
| Const  | Const.   |   |  |  |   |   |  |       |  |  |
| Const  | Const.   |   | ſ  |  |   |   |  |       |  |  |
|  | 4 anster   | Contractor  |  | 4  |   |   |  | Ŭ     | Consultan  | ,<br>,   |
|  | Youlder Youlder  |   |  | ٢  |   |   | 2  |       |  | 1 Provension   |

الممسوحة ضوئيا بـ CamScanner

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Contractor شر کة نوید لو للمقالولات المعمل المسر کزی مشروع القسار السريس خوکة - مطروع

|  | V               | Electric E                 | Electric Express Train - HSR                          |           | -         |
|--|-----------------|----------------------------|---|-----------|-----------|
|  | Fro             | m El Aln El Sokhn          | From El Ain El Soldina City To El Alamein - MATROUH   |           |           |
|  |                 | Section - 7 From           | Section - 7 From FOKA To MARSA MATROUH                | N'ADINE I | Windley I |
| וס וושליט אונעדש.<br>געונעדש. געונעדש.<br>גב, בונר פֿוּכָע | HINKA           | From Station 5             | From Station 504+000 To Station 568+177               | 2         |           |
|  | Absorbtion &    | Aggregate sp<br>AASHTO-T85 | Absorbtion & Aggregate specific gravity<br>AASHTO-T85 |           |           |
| J  | PREP            | PREPARED SUBGRADE          | RADE  | 1         |           |
| TESTING DATE:  | 16-5-2023       | code                       |   | FROM      | TO        |
| LOCATION   | 514+515         | N STATE                    | zone  |           |           |
| NAME COMPANY   | YOUSEF NEGIDA 1 | YN(P-5)                    |   | 514+000   | 518+500   |

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| Weight of sample                            |      | E, |
|---|------|----|
| Weight of saturated -dry surface sample (B) | 4438 | Ē  |
| Weight of saturated sample in water (C)     | 2628 | Ę  |
| Weight of dry sample after heating (A)      | 4260 | Ę  |
| Results:-                                   |      |    |

| Weicht of Announced Announced        |       | à |
|--------------------------------------|-------|---|
| Results:-                            | 4280  | 5 |
| Bulk specific gravity = A / (B-C)    | 2.354 |   |
| Apparent specific gravity = A ((A-C) | 2.610 |   |

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4.178

Asorbtion = ( B-A)/A

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### Results:-

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Lab. Engineer Ó Name : 292

yoursel Roful

Name :

Sign :

Consultant Engineer

Lab. Specialist Name: Sign :

| Electric Exp | ng Lab AL Muby Central Lab | G      |
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| XX           | Opmenting Lab              | ちしたとなる |

oress Train - HSR

Para Rent Ball 

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| California     |  |
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|-----------------|-----------------|---|------|---------|---------|
| I stal Date I   | 17/5/2023       | Code  |      | FROM    | 2       |
| Location :      | 514+515         | C BILL  | ZONE | 0001713 | 1010    |
| Internet Manual | YOUSEF NEGIDA 1 | le Jui  |      | nnn++Tc | 2187200 |

#### **est Results** 1

| R                     | 1          | 1101       | ¥             | \$1411                  | 9689         |                    | 114                | 116                                 | ž            |
|-----------------------|------------|------------|---------------|-------------------------|--------------|--------------------|--------------------|-------------------------------------|--------------|
| Compaction % for Mold | Model Nue. | MARVA.(CM) | Mold WT, (gm) | Mode WT. + Wet WT. (gm) | Wei WT. (gm) | Wel Dominy (g/cm*) | Dry Dominy (g/cm*) | Precise Deadly (g/cm <sup>2</sup> ) | Compaction % |

| Terk                     | 5     |
|--------------------------|-------|
| Tart WT. (gm)            | 31.9  |
| Tare WT. + Well WT. (gm) | 134   |
| Tare WT. +Dry WT. (gm)   | 142.1 |
| Woher WT. (gm)           | 52    |
| Dry WT. (gm)             | [9]]  |
| Materia Contra %         | 1     |

| 2<br>11/5/2023<br>00.0<br>00.00 | Swelling<br>Mold Ns.<br>Deta<br>Jata Hagta (ann)<br>Finul Hagta (ann)<br>Difference |
|---------------------------------|---|
| 120.00                          | Sample Height (mm)  |
| 120.00                          | Difference<br>Sample Halph (mm)   |
| 0.00                            | ladal Height (mm)   |
| 17/5/2023                       | Pa  |
| n                               | Mald Na.  |
|                                 | Swelling  |

## Leading Reading :

|  |         |             | Land (COV) | 2          | 3   | 53        | 2       | 117    | 114    | 2      |        | 19.1   |      |
|--|---------|-------------|------------|------------|-----|-----------|---------|--------|--------|--------|--------|--------|------|
| Loo  |         |             | L-4 (KG)   | ISU        | - 6 | 01310     | 9364.0  | 0.6411 | 1404.0 | 1615.0 | 876978 | 1963.0 |      |
| Loo 100 300 500 500 500 500 500 500 500 500 5  | L       | 8           |            |            |     |           |         |        | -      |        |        |        |      |
| Loo 100 100 100 100 100 100 100 100 100 1  |         |             |            |            |     |           |         |        |        |        |        |        |      |
| Inditions:   |         | 2           |            |            |     |           |         |        |        |        |        | 4      |      |
| Loo 100 100 100 100 100 100 100 100 100 1  |         |             |            |            |     |           |         | 10     | N      |        |        |        |      |
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| Loo 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1  | l) P    | -           |            |            | N   |           |         |        |        | -      |        |        |      |
| Loo 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1  | eal     |             |            |            | 4   |           | -       | -      |        | -      |        |        |      |
| Loo Loo Stor Loo Stor Loo Stor Loo Stor Loo Stor Loo Loo Loo Stor Loo Stor Loo Stor Loo Stor Loo Stor Loo Canada Canada Canada Canada Canada Canada Canada Canada Canada |         |             |            | 4          |     | -         | -       |        |        |        |        |        |      |
| Loo 2.0 1.00 5.00 Loo 4.00 5.00 Loo 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.  |         | 1           |            |            |     | -         |         |        | -      |        | -      | -      |      |
| 100 2.00 1.00 3.00 4.00 1.00 1.00 1.00 1.00 1.00 1.00 1  |         |             | 0          |            |     |           |         | -      |        |        | -      |        | +    |
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| Lio 2.0 1.0 4.0 5.0 4.00<br>Load Reading (mm)<br>Jian Taul Stading Land Cit Mail Company Commany   |         |             |            |            |     |           |         |        |        |        |        |        |      |
| atte Eretter Canadia Cata Mail: Connela  |         | 8           | 8          | 8          | ā a | ad Readin | 3 (m) 3 |        | ž      | 8      | •      | 8      | 7.00 |
| Lawl Standard Land Cita Mark-Comparison Comparison   | Calcula | tions :-    |            |            |     |           |         |        |        |        |        |        |      |
|  |         | Penteration | Lead       | Standard I | 1   | 9         |         | 1      |        | 1      | -      | a C    | 0    |

to wist Roger 3 Name : 2 Ş. 2 Lab. Englance 833 3 2

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| Company                 | Yousef Negida               | (1)         |     | Designer         | Compa | any | Γ-   |      |    |    |
|-------------------------|-----------------------------|-------------|-----|------------------|-------|-----|------|------|----|----|
| Issued by<br>Contractor | Name<br>Eng/Shehab<br>Hamdi | Sign        | 2 2 | Date<br>14/6/202 | 3     |     | Time |      |    |    |
| Contractor<br>Refrence  | Р                           | P.S.G YN(6) |     |                  |       |     |      |      |    |    |
| Received by<br>ER       |                             |             | MIR | <b>G</b> Q       | C3    | DD  | мм   | YY   | нн | MM |
|                         | 1                           |             |     |                  |       | 14  | 6    | 2023 |    |    |

| CODE - 2 Depot Reference For Kilometer point only Start |           |
|---|-----------|
| CODE - 3 Work Activity                                  | Km is use |

| Description of Materials         Curshed Stone P.S.G.6 Material Result           516+560         516+600         0.25+           516+560         516+600         0.50+           516+600         516+630         0.50+           516+630         516+880         0.50+           516+630         516+880         0.50+           516+800         516+880         0.50+           516+800         516+880         0.50+           516+800         516+940         0.50+           Supplier Name  |                                |            |           |  |       |       |             | -   |             | _          |                           |
|---|--------------------------------|------------|-----------|--|-------|-------|-------------|-----|-------------|------------|---------------------------|
| $ \begin{array}{c c c c c c c c c c c c c } & 516+560 & 516+600 & 0.25+\\ & 516+560 & 516+600 & 0.50+\\ & 516+600 & 516+630 & 0.50+\\ & 516+630 & 516+880 & 0.50+\\ & 516+880 & 516+880 & 0.50+\\ & 516+880 & 516+940 & 0.50+\\ \hline \\ \hline$   | Desc                           | ription of | Materials |  | Cursh | ed S  | tone PSC    | 5 1 | Antonial D  |            |                           |
| Location to be Used       516+560       516+600       0.50+         516+600       516+630       0.50+         516+630       516+800       0.50+         516+800       516+880       0.50+         516+880       516+940       0.50+         MAR Approval No       P.S.G. YN(6)       Date         Supplier Name   |                                |            |           | 516+5  | 60    |       |             |     |             |            |                           |
| Location to be Used         516+600         516+630         0.50+           516+630         516+800         0.50+           516+800         516+880         0.50+           516+800         516+880         0.50+           516+880         516+940         0.50+           MAR Approval No         P.S.G. YN(6)         Date           Supplier Name   |                                |            |           | 1.000  |       |       |             |     |             |            |                           |
| Statistics         S16+630         S16+800         0.50+           S16+630         S16+880         0.50+           S16+880         S16+940         0.50+           MAR Approval No         P.S.G. YN(6)         Date           Supplier Name  |                                |            |           | and a second |       | 51    | .6+600      |     | 0.50+       |            |                           |
| 516+800       516+880       0.50+         516+880       516+940       0.50+         MAR Approval No       P.S.G. YN(6)       Date         Supplier Name   | Locat                          | tion to be | e Used    | 516+6  | 00    | 51    | 6+630       |     | 0.50+       |            |                           |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   |                                |            |           | 516+6  | 30    | 51    | 6+800       |     | 0.50+       |            |                           |
| 516+880516+9400.50+MAR Approval NoP.S.G. YN(6)DateSupplier Name   |                                |            |           | 516+8  | 00    | 51    | 6+880       |     |             |            |                           |
| MAR Approval NoP.S.G. YN(6)DateSupplier Name  |                                |            |           | 516+8  | 80    |       |             |     | - 10 C      |            |                           |
| Supplier Name     Supplier Name       Test Requirement     Specification       Reference Photos     Yes attached / No       Item     Description       1     L.L & P.L & O.M.C %       7     m3       2     Proctor       3     Classification       4     Sieve Analysis       5     C.B.R       6     L.A & Absorption  |                                |            | No        |  |       |       |             |     |             |            |                           |
| Reference Photos         Yes attached / No         Other         Clause           Item         Description         Unit         Quantity         Arrival Date         Note           1         L.L & P.L & O.M.C %         m3         5000         11-06-2023             2         Proctor         m3         5000         12-06-2023              3         Classification         m3         5000         11-06-2023              4         Sieve Analysis         m3         5000         11-06-2023  |                                |            |           |  |       | 1     |             | _   | Date        |            |                           |
| Item         Description         Unit         Quantity         Arrival Date         Note           1         L.L & P.L & O.M.C %         m3         5000         11-06-2023           2         Proctor         m3         5000         12-06-2023           3         Classification         m3         5000         11-06-2023           4         Sieve Analysis         m3         5000         11-06-2023           5         C.B.R         m3         5000         11-06-2023           6         L.A & Absorption         m3         5000         13-06-2023   |                                |            |           |  |       | Spec  | ification   |     | Clause      |            |                           |
| Item         Description         Unit         Quantity         Arrival Date         Note           1         L.L & P.L & O.M.C %         m3         5000         11-06-2023           2         Proctor         m3         5000         12-06-2023           3         Classification         m3         5000         11-06-2023           4         Sieve Analysis         m3         5000         11-06-2023           5         C.B.R         m3         5000         14-06-2023           6         L.A & Absorption         m3         5000         13-06-2023   | the state of the second second |            |           | Yes attached / M   | No    |       |             |     | clause      |            |                           |
| 1       L.L & P.L & O.M.C %       m3       5000       11-06-2023         2       Proctor       m3       5000       12-06-2023         3       Classification       m3       5000       11-06-2023         4       Sieve Analysis       m3       5000       11-06-2023         5       C.B.R       m3       5000       14-06-2023         6       L.A & Absorption       m3       5000       13-06-2023  |                                |            |           |  | Un    | -     |             | A   | rrival Date | Note       |                           |
| Z         Proctor         m3         5000         12-06-2023           3         Classification         m3         5000         11-06-2023           4         Sieve Analysis         m3         5000         11-06-2023           5         C.B.R         m3         5000         14-06-2023           6         L.A & Absorption         m3         5000         13-06-2023   |                                |            |           | %  | m3    |       |             | _   |             | Note       |                           |
| 3       Classification       m3       5000       11-06-2023         4       Sieve Analysis       m3       5000       11-06-2023         5       C.B.R       m3       5000       14-06-2023         6       L.A & Absorption       m3       5000       13-06-2023  |                                |            |           |  | m3    |       | 5000        | -   |             |            |                           |
| 4         Sieve Analysis         m3         5000         11-06-2023           5         C.B.R         m3         5000         14-06-2023           6         L.A & Absorption         m3         5000         13-06-2023  | 1000                           |            |           |  | m3    |       | 5000        | -   |             |            |                           |
| S         C.B.R         m3         5000         14-06-2023           6         L.A & Absorption         m3         5000         13-06-2023  |                                |            | nalysis   |  | m3    |       | 5000        | _   |             |            |                           |
| 6 L.A & Absorption m3 5000 13-06-2023   |                                |            |           |  | m3    |       | 5000        | -   |             |            |                           |
|   | -                              |            | osorption |  | m3    |       | 5000        | _   |             | -          |                           |
|   | Comm                           | nents by:  | 大学和学生     | The state of the second  | 1125  |       | Comments by |     | - 30 2023   | Section of | production and the second |
|   |                                |            |           |  |       |       |             |     |             | 24-11-     | State and the second      |
|   | 15-11                          | NO CON     | PA LAR    | 2.5-4、1947   | APPRO | VAL S | TATUS       | 14  | 110000000   | 4-12-44    | 18                        |
| APPROVAL STATUS   | Organ                          | isation    | Name      |  |       |       |             |     | Date        | 1          | A ANA/C D                 |
| APPROVAL STATUS Organisation Name Sign Date A AWG R   |                                |            | Eng/ She  | ehab Hamdi   | _     | 2     | JUS_        | د   | Date        |            | A-AVVC-K                  |
| Organisation         Name         Sign         Date         A-AWC-R           Contractor         Eng/ Shehab Hamdi         Image: |                                |            | Youney    | Rages  |       | fouls | of Rogh     |     | -           |            |                           |
| Organisation     Name     Sign     Date     A-AWC-R       Contractor     Eng/ Shehab Hamdi     Image: Sign     Date     A-AWC-R       QA/QC*     Yourget Ruding     Image: Sign     Image: Sign     Image: Sign     Image: Sign   |                                |            |           |  |       |       | /           |     |             |            |                           |
| Organisation     Name     Sign     Date     A-AWC-R       Contractor     Eng/ Shehab Hamdi     Image: Sign     Date     A-AWC-R       QA/QC *     Youth of Ruful     Image: Sign     Image: Sign     Image: Sign       GARB**     Image: Sign     Image: Sign     Image: Sign     Image: Sign   | Emplo                          | Vers       | 4         |  |       |       |             | -   |             |            |                           |

Employers

Representative

\* Designer \*\* Alignment / Bridges: Culvert Only

File: MIR P.S.G.1 YN(6)

Page 1 of 1



| Location Name             | A PERSON AND            | Contractor Co | ompany       | 100 | 1.16 | 使族       | CAA. | Desig  | ner Comp  | anv  | 1.1     |
|---------------------------|-------------------------|---------------|--------------|-----|------|----------|------|--------|-----------|------|---------|
| Electric express<br>train | train Yousef Negida (1) |               | k.k          |     |      |          |      |        |           |      |         |
| Issued by                 | Name                    | Sign          | C. Mary John | Dat | e    | 10 10 al | 10   | Time   | and affer | 1000 | 17.1    |
| Contractor                | Eng/Shehab<br>Hamdi     | ارک           | <u>ہ</u> ہ   | 1   | 4/06 | /202     | 3    |        |           |      | 1.4.3.6 |
| Contractor<br>Reference   | Ρ.                      | 5.G YN(6)     |              |     |      |          |      |        |           |      |         |
| Received by ER            |                         |               |              | CI  | a    | C        | DD   | M<br>M | ŶŶ        | нн   | M       |
|                           |                         |               | MAR          |     |      |          | 14   | 6      | 2023      |      |         |

| Description of | of Materials  | Crushed sto           | one (Prepared Subgrade) (A-1-a) |         |  |  |  |
|----------------|---------------|-----------------------|---------------------------------|---------|--|--|--|
| Locat          | ion of Stock  |                       | 514+515                         |         |  |  |  |
| ltem           | Specification | Test requirement      | Test result attachment          | Remarks |  |  |  |
| 1              | ASTM D 75     | Aggregate Sampling    | According to specifications     |         |  |  |  |
| 2              | ASTM C 136    | Sieve Analysis        | According to specifications     |         |  |  |  |
| 3              | ASTM D 1440   | Passing Sieve, No 200 | 12.7 %                          |         |  |  |  |
| 4              | ASTM D 4318   | Atterberg limit       | N.P                             |         |  |  |  |
| 5              | ASTM D 2974   | Moisture content      | 7.8 %                           |         |  |  |  |
| 6              | ASTM D 1557   | Modified proctor      | 2.198                           |         |  |  |  |
| 7              | ASTM D 1883   | CBR                   | 73.6 %                          |         |  |  |  |
| 8              | AASHTO-T96    | L.A                   | 32 %                            |         |  |  |  |
| 9              | AASHTO-T85    | Absorption            | %4.9                            |         |  |  |  |
| Comments by    | <b>1</b>      | A CARD AND AND A      | Comments by:                    | 1       |  |  |  |

| a set a set a set a         |                    | APPROVAL STATUS | and the second second | and the second second |
|-----------------------------|--------------------|-----------------|-----------------------|-----------------------|
| Organisation                | Name               | Sign            | Date                  | A-AWC-R               |
| Contractor                  | Eng/Shehab Hamdi   | - LIC >         |                       | AARCA                 |
| QA/QC *                     | Youssef Rapob      | Yoursef Ragon   |                       | +                     |
| GARB**                      | _                  |                 |                       |                       |
| Employers<br>Representative | - <mark>1</mark> 2 |                 |                       |                       |
| Designer                    |                    |                 |                       |                       |

\*\* Alignment/Bridges: Culvert only



# Electric Express Train - HSR From Et Ain El Sokhna City To El Alamein - MATROUH

Section - 7 From FOKA To MARSA MATROUH

-الم و الكر و الل او م 104 (AREAT)

# From Station 504-000 To Station 568+177

Negida Central Lab

# PARTICLE SIZE DISTRIBUTION OF PREPARED SUBGRADE

| TESTING DATE: | 11-6-2023       | Code    |      | FROM STATION | TO STAT |
|---------------|-----------------|---------|------|--------------|---------|
| LOCATION      | KP 514+515      | YN(P-6) | Zone | 514+000      | 518+500 |
| NAME COMPANY  | YOUSEF NEGIDA 1 | 1141-01 |      | 514.000      | 010+50  |

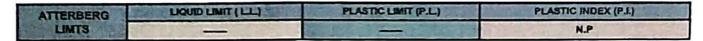
1-visual inspection test

#### 2-Gradient test

| -gradation of bulk mat  | erials |              | 1 /          | SAMPLE  | SAMPLE WEIGHT [g] |         | 49447.00 |      | Table c       | classify |
|-------------------------|--------|--------------|--------------|---------|-------------------|---------|----------|------|---------------|----------|
| sieve size              | 2      | 1.5          | 1            | 4/3     | 2/1               | 8/3     | #4       | PASS | Soll Classify | A-1-a    |
| Mass retained (g)       | 186.0  | 1640.0       | 9400.0       | 4378.0  | 5371.0            | 3232.0  | 7132.0   |      | PRO           | 2.200    |
| Cumulative Retained (g) | 186.0  | 1826.0       | 11226.0      | 15604.0 | 20975.0           | 24207.0 | 31339.0  |      | wc            | 7.80     |
| Cumulative Retained %   | 0.4    | 3.7          | 22.7         | 31.6    | 42.4              | 49.0    | 63.4     |      | CBR           | 73.70%   |
| Cumulative Passing %    | 99.6   | 96.3         | 77.3         | 63.4    | 57.6              | 51.0    | 36.6     | []   | Los Angles    | 32       |
|                         |        | <i>└───′</i> | <b>├</b> ──┤ |         |                   |         | t        |      | Absorption    | 4.961    |

| B-soft material gradatio | ۵     |        | [      | WT.OF sample | 500.00 | gm |
|--------------------------|-------|--------|--------|--------------|--------|----|
| sleve stza               | 10    | 40     | 200    |              |        |    |
| Cumulative Retained (g)  | 78.00 | 188.00 | 327.00 |              |        |    |
| Cumulative Retained %    | 15.60 | 37.60  | 65.40  |              |        |    |
| Cumulative Passing %     | 84.40 | 62.40  | 34.60  |              |        |    |

| C-General gradient   |                |      |      |         |      |         |      |        |       |        |
|----------------------|----------------|------|------|---------|------|---------|------|--------|-------|--------|
| sieve size(in)       | 2              | 1.5  | 1    | 3/4     | 1/2  | 3/8     | #4   | # 10   | # 40  | # 200  |
| sieve size(mm)       | 50.0           | 37.5 | 25.0 | 19.0    | 12,5 | 9.5     | 4.75 | 2.00   | 0.425 | 0.075  |
| Cumulative Passing % | 99.6           | 96.3 | 173  | 68.4    | 57.6 | 51.0    | 38.6 | 30.9   | 22.9  | 12.7   |
| SPECIFICATION        |                | 97   | y we | 70 - 75 | -    | 15 - 60 | -    | 0 - 35 |       | 0 - 12 |
|                      | 1076 × 2079 10 |      |      |         |      |         |      |        |       |        |
|                      |                |      |      |         |      |         |      |        |       |        |





Consultant Youssef Ragob

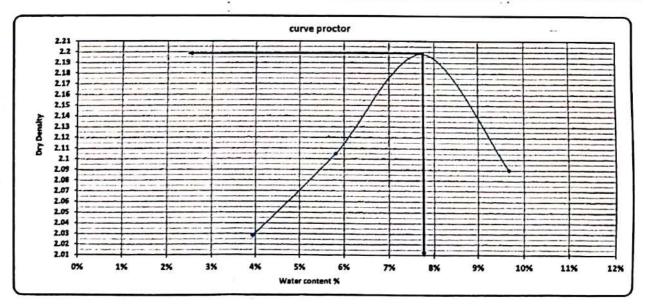


# PROCTOR TEST (PREPARED SUBGRADE)

| TESTING DATE:    | 12-6-2023       | Code    |      | FROM    | то      |
|------------------|-----------------|---------|------|---------|---------|
| LOCATION 514+515 |                 |         | zone |         |         |
| NAME COMPANY     | YOUSEF NEGIDA 1 | YN(P-6) |      | 514+000 | 518+500 |

| Weight of empty mold : | 5652.0   |          | MAX Dry Den  | sity   | 2.198 |
|------------------------|----------|----------|--------------|--------|-------|
| Mold Volume:           | . 2125.0 |          | Water conten | 1%     | 7,8   |
| trial no :             | i        | 1        | 3            | . 4    |       |
| Wt. Of Mold+ wet soll  | 10132.0  | 10385.0  | 10685.0      | 10523  |       |
| WT. WET SOIL           | 4480.0   | - 4733.0 | 5033.0       | 4871.0 |       |
|                        |          |          |              |        |       |

| Dry Density            | 2.0   | 28    | 2.1   | 105   | 2.1   | 98    | 20    | 90    |  |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| AV,Water content %     | 3.5   | 7%    | 5.0   | 1%    | 7.1   | 1%    | 9.7   | %     |  |
| Water content %        | 3.9%  | 4.0%  | 5.8%  | 5.9%  | 7.7%  | 7.8%  | 9.6%  | 9.8%  |  |
| Wt. Of dry soil        | 123.0 | 123.0 | 123.0 | 123.0 | 123.0 | 123.0 | 123.0 | 123.0 |  |
| Wt. Of water           | 4.8   | 4.9   | 7.1   | 7.2   | 9.5   | 9.6   | 11.8  | 12.0  |  |
| Wt. Of dry soil & tare | 145.2 | 145.1 | 142.9 | 142.8 | 140.5 | 140.4 | 138.2 | 138.0 |  |
| WL Of wet soil & tare  | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 | 150.0 |  |
| Tare wt.               | 42.2  | 44.1  | 53.6  | 53.2  | 30.9  | 46.2  | 80.7  | 82.7  |  |
| Tare No.               | 7     | 19    | 13    | 17    | 15    | 40    | 31    | 32    |  |





Consultant Youss CFP aft



Electric Express Train - HSR



Opresting Leb AL Nuby Central Lab

|                |                 | PREPARED SUBO | GRADE |         |          |  |
|----------------|-----------------|---------------|-------|---------|----------|--|
| Testing Date : | 13/6/2023       | Code          | 10 M  | FROM    | TO       |  |
| Location :     | 514+515         |               | ZONE  |         |          |  |
| Company Name   | YOUSEF NEGIDA 1 | YN(P-6)       |       | 514+000 | 518-+500 |  |

100

### -: Test Results

| Compaction % for Mold                |       |  |  |  |  |
|--------------------------------------|-------|--|--|--|--|
| Mold Ne.                             | 3079  |  |  |  |  |
| Moid YoL(cm3)                        | 2088  |  |  |  |  |
| Mold WT. (gm)                        | 8050  |  |  |  |  |
| Mold WT, + Wet WT. (gm)              | 12960 |  |  |  |  |
| Wet WT. (gm)                         | 4910  |  |  |  |  |
| Wet Density (g/cm3)                  | 2.352 |  |  |  |  |
| Dry Density (g/cm <sup>3</sup> )     | 2.179 |  |  |  |  |
| Proctor Density (g/cm <sup>3</sup> ) | 2.198 |  |  |  |  |
| Compaction %                         | 99    |  |  |  |  |

| Mositure Ratio After Compa | cted Mold |
|----------------------------|-----------|
| Tare No.                   | 15        |
| Tare WT. (gm)              | 30.9      |
| Tare WT. +Wet WT. (gm)     | 186.62    |
| Ture WT. +Dry WT. (gm)     | 175.2     |
| Water WT. (gm)             | 11.4      |
| Dry WT. (gm)               | 1443      |
| Moisture Content %         | 7.9       |

| Swelling           |           |
|--------------------|-----------|
| Mold No.           | 4         |
| Date               | 13/6/2023 |
| Intial Height (mm) | 0.00      |
| Flast Height (mm)  | 0.00      |
| Difference         | 0         |
| Sample Height (mm) | 116,40    |
| Swelling Ratio %.  | 0.0%      |

### Loading Reading :

|      | Load Reading (mu | 0.64              | 1.27  | 1.91     | 2.54    | 3.18  | 3.80   | 4.45   | 5.80   | 6.40   |    |
|------|------------------|-------------------|-------|----------|---------|-------|--------|--------|--------|--------|----|
| 2.   | Load (KN)        | Load (KN) 1.1 3.4 |       |          | 7.7     | 9.8   | 11.8   | 13.7   | 14.9   | 16.7   |    |
|      | Load (KG)        | 117.0             | 352.0 | 574.0    | 783.0   | 999.0 | 1200.8 | 1399.0 | 1522.0 | 1798.0 |    |
| 18   |                  | ·                 | - 1   |          | -       |       |        | _      |        |        |    |
| 16   |                  |                   |       |          |         |       |        |        |        |        |    |
| 14   |                  |                   |       |          |         |       | ~      |        |        |        |    |
| 12   |                  |                   |       |          | ~       |       |        |        |        |        |    |
| 10   |                  |                   |       | ,o2      |         |       |        |        |        |        |    |
| •    |                  |                   | o     |          |         |       |        |        |        |        |    |
| •    |                  |                   |       |          |         |       |        |        |        |        |    |
| 1    |                  |                   |       |          |         |       |        |        |        |        |    |
| 2    | •                |                   |       |          |         |       |        |        |        |        |    |
| 0.00 | 1.00             | 2.00              | 3.0   | 0        | 4.0     | 0     | 5,     | 00     | 6      | .00    | 7. |
|      |                  |                   | Lo    | ad Readl | ng (mm) |       | 5      |        |        |        |    |

#### Calculations ; -

| Penteration | Losd  | Standard Load | CBR    | Mold - Compacties | Competies  | CBR            |
|-------------|-------|---------------|--------|-------------------|------------|----------------|
| (mm)        | (Ks)  | (Ib)          | (8)    | (%)               | (%)        | 98 مند اسية 98 |
| 2.50        | 7.67  | 13.4          | \$7.5% |                   | AND IS THE | 56.8%          |
| 5.00        | 14.97 | 20.0          | 74.596 | - 99              | 98         | 73.6%          |





Electric Express Train - HSR

From EI Ain EI Sokhna City To El Alamein MATROUH

Section - 7 From FOKA To MARSA MATROUH From Station 504+000 To Station 568+177



Absorbtion & Aggregate specific gravity AASHTO-T85

## PREPARED SUBGRADE

| TESTING DATE: | NG DATE: 13-6-2023 code |         |      | FROM    | то      |
|---------------|-------------------------|---------|------|---------|---------|
| LOCATION      | 514+515                 |         | zone | 514+000 | 518+500 |
| NAME COMPANY  | YOUSEF NEGIDA 1         | YN(P-6) |      |         |         |

| Weight of sample Before Test                |       | gm |
|---|-------|----|
| Weight of saturated -dry surface sample (B) | 5099  | gm |
| Weight of saturated sample in water (C)     | 3024  | gm |
| Weight of dry sample after heating (A)      | 4858  | gm |
| Results:-                                   |       |    |
| Bulk specific gravity = A / (B-C)           | 2.341 |    |
| Apparent specific gravity = A /(A-C)        | 2.649 |    |
| Asorbtion = ( B-A)/A                        | 4.961 | %  |

### Los Anglos abrasion AASHTO-T96

#### Results:-

| Weight of sample<br>before test (gm) | Weight of sample after test<br>(gm) | Abrasion ratio (%) |  |  |
|--------------------------------------|-------------------------------------|--------------------|--|--|
| 5000                                 | 3417                                | 32                 |  |  |

Lab. Specialist

Name :

Sign :

ab. Engin شركة فتعيدة للمقاولان ملللمعل الفطاركرى فالقطار السري فوكة - مطرو

Consultant Engineer Name : Yourssef Poght Sign :



| Contractor<br>Company   | Yousef Negida       | (1)    | 1) Designer Company |            |    | edesse dostana v |    |      |      |    |    |  |
|-------------------------|---------------------|--------|---------------------|------------|----|------------------|----|------|------|----|----|--|
|                         | Name                | Sign   |                     | Date       | 3  |                  |    | Time |      |    |    |  |
| Issued by<br>Contractor | Eng/Shehab<br>Hamdi | ree    | A                   | 11/07/2023 |    |                  |    |      |      |    |    |  |
| Contractor<br>Refrence  |                     | YN1-24 |                     |            |    |                  |    |      |      |    |    |  |
| Received by             |                     |        |                     | C1         | C2 | 0                | DD | MM   | YY   | НН | MM |  |
| ER                      |                     |        | MIR                 |            |    |                  | 11 | 07   | 2023 |    |    |  |

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

| Desci            | ription of M | laterials |               |      |         | F                  | Fill N | Aaterial  | Re           | sult     |      |         |
|------------------|--------------|-----------|---------------|------|---------|--------------------|--------|-----------|--------------|----------|------|---------|
|                  |              |           | 515+340       | 51   | 15+5    | 500                | **     | ).25      |              |          |      |         |
|                  |              |           | 515+500       | 51   | 15+6    | 500                | -0     | ).25      |              |          |      |         |
| Locat            | ion to be U  |           | 515+600       | 51   | 15+7    | /80                |        | .25       |              |          |      |         |
| Locat            | ion to be U  | sea       | 515+340       |      | 15+5    |                    |        | .00       |              |          |      |         |
|                  |              |           | 515+500       |      | 15+6    |                    | 0.00   |           |              |          |      |         |
|                  |              |           | 515+600       |      |         |                    |        |           |              |          |      |         |
| MAR Approval No  |              |           |               | ,    | YN1-24  |                    |        |           | Date         |          |      |         |
| Supplier Name    |              |           |               |      |         |                    |        |           |              | [        |      |         |
| Test Requirement |              |           | Specification |      |         |                    |        | Clause    |              |          |      |         |
|                  | ence Photo   |           | Yes attached  | / No |         | Othe               | er     |           |              |          |      |         |
| Item             | Descriptio   |           |               |      | Uni     | t                  |        | Quantity  | Arrival Date |          | Note |         |
| 1                | L.L & P.L    | & O.M.C   | %             |      | m3 5000 |                    | 1      | -07-2023  |              |          |      |         |
| 2                | Proctor      |           |               |      | m3      |                    |        | 5000      | 10           | -07-2023 |      |         |
| 3                | Classificat  | tion      |               |      | m3      | m3 5000 09-07-2023 |        |           |              |          |      |         |
| 4                | Sieve Ana    | lysis     |               |      | m3      |                    |        | 5000      | 09-07-2023   |          |      |         |
| 5                | C.B.R        |           |               |      | m3      |                    |        |           | 1-07-2023    |          |      |         |
| Comn             | nents by:    |           |               |      | 1999    |                    | Com    | ments by: | -            |          | -    |         |
|                  | ~            |           |               |      |         |                    |        |           |              |          |      |         |
| 0                |              |           |               | A    | -       | VALS               | STATL  | JS        |              |          |      |         |
| Contra           | isation      | Name      | 1 1           |      | Sig     | n                  |        |           |              | Date     |      | A-AWC-R |
|                  |              |           | ehab Hamdi    |      |         | al.                | P      | 1         | >            |          |      |         |
| QA/Q             |              | Mohas     | and the       |      | F       | 11                 | 3.0    |           |              |          |      |         |
|                  |              |           |               |      |         |                    |        |           |              |          |      |         |
| Emplo<br>Repre   | sentative    |           |               |      |         |                    |        |           |              |          |      |         |
| -pic             | Cilculive    |           |               |      |         |                    |        |           |              |          |      |         |

\* Designer

\*\* Alignment / Bridges: Culvert Only



| Location Name             | C                   | Contractor Co | ompany | No. |    |      | 191  | Design | ner Compa | 2014    | - C - Z - |
|---------------------------|---------------------|---------------|--------|-----|----|------|------|--------|-----------|---------|-----------|
| Electric express<br>train |                     | Yousef Negi   |        | k.k |    |      |      |        |           | 1. arch |           |
| Issued by                 | Name                | Sign          | Date   | 2   |    |      | Time |        | 10.955    | 0.56    |           |
| Contractor                | Eng/Shehab<br>Hamdi | ee            | A      |     |    | /202 | 3    | Turte  |           |         | 592       |
| Contractor<br>Reference   | 1                   | /N1-24        |        |     |    |      |      |        |           |         | ,         |
| Received by ER            |                     |               | 8445   | ¢1  | C2 | C3   | DD   | M      | YY        | НН      | M         |
|                           |                     |               | MAR    |     |    |      | 11   | 07     | 2023      |         |           |

| Location     | of stock    |                              | F47.800                     |         |  |  |  |
|--------------|-------------|------------------------------|-----------------------------|---------|--|--|--|
|              |             | 517+600                      |                             |         |  |  |  |
| Item Spe     | cification  | Test requirement             | Test result attachment      | Remarks |  |  |  |
| 1            | ASTM D 75   | Aggregate Sampling           | According to specifications | nemarks |  |  |  |
| 2            | ASTM C 136  | Sieve Analysis               | According to specifications |         |  |  |  |
| 3            | ASTM D 1440 | Passing Sieve, No 200 12.4 % |                             |         |  |  |  |
| 4            | ASTM D 4318 | Atterberg limit 3.7          |                             |         |  |  |  |
| 5 /          | ASTM D 2974 | Moisture content             | 8%                          |         |  |  |  |
| 6            | ASTM D 1557 | Modified proctor             | 2.20                        |         |  |  |  |
| 7 /          | ASTM D 1883 | CBR                          | 27 %                        |         |  |  |  |
| Comments by: |             |                              | Comments by:                |         |  |  |  |

|                             | P                | PPROVAL STATUS |      | A STREET |
|-----------------------------|------------------|----------------|------|----------|
| Organisation                | Name             | Sign           | Date | A-AWC-R  |
| Contractor                  | Eng/Shehab Hamdi | real           | >    |          |
| QA/QC *                     | Mohumment Al _   | 1-20           | -    |          |
| GARB**                      | ·                | 3/-            |      |          |
| Employers<br>Representative |                  |                |      |          |
| * Designer                  |                  |                |      |          |

\*\* Alignment/Bridges: Culvert only

| KK A   |                     | Fr                    | Electric Express Train - HSR<br>From El Ain El Sokhna City To El Alamein - MATROUH<br>Section - 7 From FOKA To MARSA MATROUH<br>From Station 504+000 To Station 568+177  |                    |              |           |           |               |           |          |  |
|--|---------------------|-----------------------|--|--------------------|--------------|-----------|-----------|---------------|-----------|----------|--|
| من الماني المانيان المنتسي<br>10077 كد داد قابول   | n 11 - 1 - 1 - 1    |                       |  |                    |              |           |           |               | (000)     | (R. " .  | and the second sec |
|  | I stored            |                       |  |                    |              | 10001 200 | 84161     |               | L         |          |  |
| Operating Lab  | INegida             | Central Lab           | Concession of Co | SIZE DIS           | TRIBUTIC     | NODRO     | TT        |               |           |          |  |
| Description of Materials   | Emb                 | ankment               |  | 0121 013           | INBUIR       | IN OF SU  | HL.       |               |           |          |  |
| Testing Date   |                     | 09-07-23              | 1  | 0                  | ode          |           |           | From          | n Station | T        | TO Stat  |
| Location   |                     | K.P 517+6             |  | Y                  | V-24         | 2         | one       | 51            | 4+000     |          | TANK SW  |
| Company Name   |                     | ousef Negi            | da 1   |                    | ्रमातः<br>   |           |           | 0             | 4+000     |          | 518+5  |
| 1-visual inspection  |                     |                       | 53<br>10   |                    |              |           |           |               |           | *:       |  |
| A-gradation of b   | ulk mate            | rials                 | 1  | SAMPLE             | NEIGHT [g]   | 326       | 62.00     | gm            | table cla |          | la alacelí   |
| sieve size   | 2                   | 1.5                   | 1  | 3/4                | 1/2          | 3/8       | #4        | PASS          |           |          |  |
| Mass retained (g)  | 0.0                 | 284.0                 | 1106.0   | 2673.0             | 4753.0       | 3314.0    | 4466.0    | PASS          |           |          | I classify   |
| Cumulative Retained (g)  | 0.0                 | 284.0                 | 1390.0   | 4063.0             | 8816.0       |           |           |               |           |          | A-1-a  |
| Cumulative Retained %  | 0.0                 | 0.9                   | 4.3  | 12.4               |              | 12130.0   | 16596.0   |               | PRO       |          | 2.200  |
| Cumulative Passing %   | Cathorn States      |                       | COLORIS COLORIS  | Contraction of the | 27.0         | 37.1      | 50.8      |               | WC        |          | 8  |
| and the state of t | 100.0               | <b>\$9.1</b>          | 95.7   | 87.6               | 78.0         | 62;9      | 49.2      |               | CBR       | 2        | 27.0%  |
| sieve size<br>Cumulative Retained (g)<br>Cumulative Retained %   | 10<br>40.00<br>8.00 | 40<br>200.00<br>40.00 | 200<br>374.00<br>74.80   |                    |              |           |           |               | 29)       |          |  |
| Cumulative Passing %   | 92.00               | 60.00                 | 25,29  |                    | •            |           |           |               | 12        |          |  |
|  |                     |                       |  |                    | I            |           |           |               |           |          |  |
| C-General gradie   |                     |                       |  |                    |              |           |           |               |           |          |  |
| sieve size(in)   | 2                   | 1.5                   | 1  | 3/4                | 1/2          | 3/8       | #4        | # 10          | # 40      | # 200    |  |
| sieve size(mm)   | 50,0                | 37.5                  | 25.0   | 19.0               | 12.5         | 9.5       | 4.75      | 2.00          | 0.425     | 0.075    |  |
| Cumulative Passing %   | 100.0               | 99.1                  | 96.7   | 87.8               | 73.0         | 82.9      | 49,2      | 48.2          | 29.5      | 12,4     |  |
| -  |                     |                       |  |                    |              |           |           |               |           |          |  |
|  | _                   |                       |  |                    |              |           |           |               |           |          |  |
|  |                     |                       |  |                    |              |           |           |               |           | 1        |  |
| TTERBERG LIMTS   | LIQU                | AD LIMIT (1           | L.)  | PLAS               | TIC LIMIT (F | L)        | PLASTIC   | al sector and | (P.I.)    |          |  |
|  |                     | 21.9%                 |  |                    | 18.1%        |           | 99 Mar 19 | 3.7%          | 2 Jonat   |          |  |
| Contractor   |                     |                       |  |                    |              |           |           |               | C         | onsultan | t  |
| وبدة للمفاولا  | 125                 |                       |  |                    |              |           |           | ٢             | Topa      | onsultan | po   |
| ل ا <b>لمركزى</b><br>الريع/فوكة-مطر  | eati                |                       |  |                    |              |           |           |               | 30        | /        |  |
|  |                     | -                     |  |                    |              |           |           |               | 3 5       |          |  |



Electric Express Train - HSR From El Ain El Sokhna City To El Alamein - MATROUH Section - 7 From FOKA TO MARSA MATROUH From Station 504+000 To Station 568+177



# PROCTOR TEST

| Testing Date<br>Location                         | 10-07-2<br>K P 517+   |                           | -        | code       |  |                          | From                             | Station  | To       | Stati |
|--|---|---------------------------|----------|------------|--|--------------------------|----------------------------------|----------|----------|-------|
| Yousef Negida 1                                  | Yousef Neg  | and the man is the second | Y        | N-24       |  | Tone                     | 514                              | +000     | 5 18+500 |       |
| W  |   |                           | ALC: NOT | 7          |  | The second second second |                                  |          |          |       |
| Weight of empty me                               | old   | 5652,0                    | 1000     |            | MA                                     | AX Dry De                | ensity                           |          | - (1/2)  |       |
| Mold Volume                                      | 100   | 2125.0                    | al Sala  |            | W                                      | ater conte               | ent %                            |          | 8        |       |
| trial no :                                       | in the second   | 1                         |          | 2          |  | 3                        | and the                          | 4        |          |       |
| Wt. Of Mold+ wet so                              | sil 10  | 195.0                     | 10       | 469.0      | 10                                     | 701.0                    | 10                               | 602      |          |       |
| WT. WET SOIL                                     | 45  | 43.0                      | 48       | 17.0       | 50                                     | 049.0                    |                                  | 50.0     |          |       |
| Wt. Density                                      | 2.  | 138                       | 2.       | 267        | 2.                                     | .376                     | THE PLACE                        | 329      |          |       |
| Tare No.   | 8   | 6                         | 7        | 4          | 5                                      | 6                        |                                  |          |          | 1     |
| Tare wt.   | 36.26   | 38.82                     | 35,99    | 36.28      | 35.35                                  |                          | 8                                | 5        |          | -     |
| Wt. Of wet soil & tar                            |   | 160.0                     | 160.0    | 160.0      |  | 35.8                     | 36.26                            | 35.35    |          | -     |
| Wt. Of dry soil & tare                           |   | 155.40                    | 152.96   | 152.88     | 160.0                                  | 160.0                    | 160.0                            | 160.0    |          |       |
| Wt. Of water                                     | 4.8   | 4.6                       | 7.0      |            | 150.81                                 | 150.76                   | 148.93                           | 148.80   |          |       |
| Wt. Of dry soil                                  | 118.9   | 116.6                     |          | 7.1        | 9.2                                    | 9.2                      | 11.1                             | 11.2     |          |       |
| Water content %                                  | 4.04%   | 3.95%                     | 117.0    | 116.6      | 115.5                                  | 115.0                    | 112.7                            | 113.5    |          |       |
| AV.Water content %                               | CONTRACTOR OF   | 3.9370                    | 6.02%    | 6.11%      | 7.96%                                  | 8.04%                    | 9.83%                            | 9.87%    |          |       |
| Dry Density                                      |   | 56                        | 2.1      | -          |  | 200                      | 9.8<br>2.1                       | -        |          |       |
|  |   |                           |          |            |  |                          |                                  | 64<br>   |          |       |
|  |   |                           | cui      | ve procto  | r                                      |                          |                                  |          |          | -     |
| 2.2  |   |                           |          |            |  | 26                       |                                  |          |          |       |
| 2.19   |   |                           |          |            | 1                                      |                          |                                  |          |          |       |
| 2.15<br>2.15                                     | And Andrewson and Andre<br>Andrewson and Andrewson and Andre<br>Andrewson and Andrewson a |                           |          |            |  |                          |                                  |          |          |       |
| 2.13   |   |                           |          |            |  |                          |                                  |          |          |       |
| 2.12   |   |                           |          | 1          | ************************************** |                          |                                  | ->       |          |       |
| 2.1  |   |                           |          |            |  |                          |                                  |          |          |       |
| 2.08   |   |                           |          |            |  |                          |                                  |          |          |       |
| 2.06   |   |                           | $\angle$ |            |  |                          |                                  |          |          |       |
| 2.05   | 2% 3  | 16 45                     | w Wat    | er content | % 7%                                   | 8%                       | 9%                               | 10%      |          |       |
| Contractor                                       | 0   |                           | _        |            |  |                          | 776                              | Consulta | 11%      | E     |
| نجيدة للمقلو<br>مل المركزى<br>الرالسريع/فوكة - • | 14 A  | 54                        |          |            |  |                          | 1-                               | 11       |          |       |
|  | -   |                           |          | - in the   |  |                          | Name of Conception of Conception | 32       |          | _     |
| A 5 91 1   |   |                           |          |            |  |                          |                                  |          |          |       |





# Plasticity and Liquidity Test -Atterberg Limits

|                             | K D C C                        |               | lode  |             | From Station |        | To Stat     |
|-----------------------------|--------------------------------|---------------|---|-------------|--------------|--------|-------------|
| Location<br>Company Name    | K.P 517+600<br>Yousef Negida 1 | Y             | N-24  | Zone        | 514+000      |        | an Cardonan |
| esting Results :-           |                                | - 1,          |   |             |              |        | 518+5       |
|                             | Test                           |               | Liqiu   | d Limit     | T            | Dia    | tic Limit   |
| No                          | . of Ticks                     | 30            | 21  | 18          | 1. ANALSING  | rias   | lic Limit   |
| Т                           | are No.                        | 2             | 8   | 6           |              | 3      |             |
| Tare                        | WT. (gm)                       | 36.63         | 37.08   | 38.11       |              | 36.17  | .4          |
| Tare WT. + Wet WT. (gm)     |                                | 55.13         | 54.70   | 51.36       |              | 44.27  | 35.01       |
| Tare WT                     | + Dry WT. (gm)                 | 51.88         | 51.50   | 48.90       | 43.02        |        | 43.65       |
| Water                       | WT. (gm)                       | 3.25          | 3.20  | 2.46        |              | 1.25   | 42.33       |
| Dry                         | WT. (gm)                       | 15.25         | 14.42   | 10.79       |              | 6.85   | 1.32        |
| Moistur                     | e Content %                    | 21,355        | 22.295  | 22.44       |              |        | 7.32        |
|                             |                                | Average %     |   |             |              | 120744 | . 18.0%     |
| 50% -                       |                                |               | 1. Software provide the second sec |             |              |        |             |
| Moisture Content %          |                                |               |   |             |              |        |             |
| Moisture Content %<br>10% - |                                |               |   |             |              |        |             |
| Moisture Content %          |                                |               | 20<br>No. of T  |             |              |        |             |
| % 40%<br>30%<br>20%<br>10%  |                                | <text></text> | No. of T  |             |              |        |             |
| % 40%<br>20%<br>10%         |                                |               | No. of T  | icks        | 2            |        |             |
| % 40%<br>20%<br>10%         | L.L<br>21.9%                   | P1<br>18.1    | No. of T  | icks<br>P.I | /o           | 35     |             |



California Bearing Ratio TEST

| Testing Date             | 11-7-2023       | code                      |      | From Station    |                       |  |
|--------------------------|-----------------|---------------------------|------|-----------------|-----------------------|--|
| Location<br>Company Name | K P 517+600     | A CONTRACTOR OF THE OWNER | Pue  | - Total Station | To station<br>518+500 |  |
|                          | Yousef Negida 1 | YN-24                     | Eone | 514+000         |                       |  |

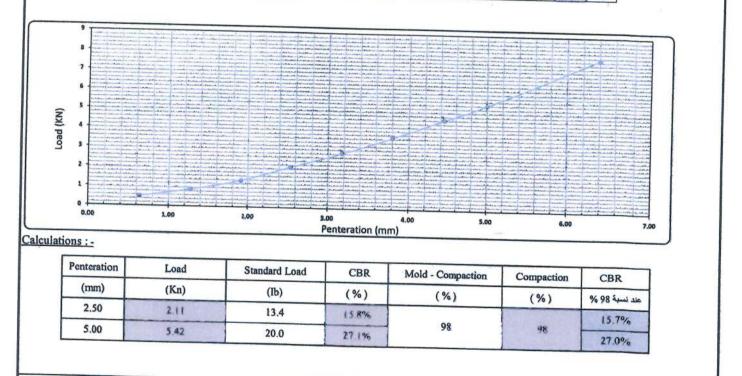
Compaction % for Mold Mold No. 2 Mold Vol.(cm3) 2134 Mold WT. (gm) 8227 Mold WT. + Wet WT. (gm) 13209 Wet WT. (gm) 4982 Wet Density (g/cm3) 2.335 Dry Density (g/cm3) 2.163 Proctor Density (g/cm<sup>2</sup>) 2.20 Compaction % 98

| 35.35  |
|--------|
| 268.32 |
| 251.22 |
| 17.1   |
| 215.9  |
| 7.92   |
| _      |
|        |

| Swelling           |           |
|--------------------|-----------|
| Mold No.           | 2         |
| Date               | 11-7-2023 |
| Intial Height (mm) | 0.00      |
| Final Height (mm)  | 0.00      |
| Difference         | 0.00      |
| Sample Height (mm) | 116.40    |
| Swelling Ratio %   | 0%        |

## Loading Reading :

| Penteration (mm)  | 0.64 | 1.27 | 1.91 | 2.54     | 3.18 | 1 0 00 |      | 1    |      |
|-------------------|------|------|------|----------|------|--------|------|------|------|
| Load Reading (kg) | 2.4  | 00   |      | See. 149 | 5.18 | 3.80   | 4.45 | 5.00 | 6.40 |
| Load (KN)         | 24   | 9.5  | 141  | 215      | 290  | 375    | 472  | 551  | 805  |
|                   | 0.5  | 0.9  | 1.4  |          | 2.8  | 3.7    | 4.6  | 200  |      |



| Lab. Specialist | Lab. Engineer                      | Consultant Engineer |
|-----------------|------------------------------------|---------------------|
| Name :          | Name :                             | Name: Mohemmet Al   |
| Sign :          | sign - Vylan Pouria                | Sign:               |
|                 | المعمل المرجري                     | 3/                  |
|                 | ت و عالمطار الب بع/ فد كم - مطرو T |                     |



| Contractor Company: - YOUSEF NEG<br>Sector Stations: - 514+000 518+ |                          |         | NEGIDA     |                       |                                       |             | 10/09/2023                          |            |           |                       |
|---|--------------------------|---------|------------|-----------------------|---------------------------------------|-------------|-------------------------------------|------------|-----------|-----------------------|
|   |                          |         |            |                       |                                       |             |                                     |            |           |                       |
| No.   | Stations                 |         | Length     | Level 1               | Level 2                               | Layer Slope | Fill Volume                         | Cut Volume |           | prepared subgrade vol |
|   | Strat                    | End     |            |                       |                                       |             |                                     | Hard soil  | Rock      |                       |
|   | 514+000                  | 514+160 | 160        | THE REAL PROPERTY.    | sub g1 +0.25                          | -4%         |                                     | 1524.7     |           | 657.800 N             |
| 2   | 514+160                  | 514+500 | 340        | 0.25+                 | sub g 2 +0.5                          | -4%         |                                     | V          | 1300- 400 | 1324.275              |
| 3   | 514+500                  | 514+640 | 140        | sub g +0.25           | sub g 2 +0.5                          | -4%         |                                     |            | 1         | 545.125               |
| 4   | 514+640                  | 514+700 | 60         | ferma                 | sub g 2 +0.5                          | -4%         | Souther and the state of the second |            |           | 481.500               |
| 5   | 514+700                  | 514+900 | 200        | sub g +0.25           | sub g 2 +0.5                          | -4%         |                                     |            |           | 778.750               |
| 6   | 514+900                  | 515+040 | 140        | cut +0.25             | sub g 2 +0.5                          | -4%         |                                     | 1          |           | 547.925               |
| 7   | 515+040                  | 515+180 | CHERT DAY  |                       | sub g1 +0.25                          | -4%         | 1                                   | /233.2     | 1 1981.81 | 575.715               |
| 8   | 515+180                  | 515+300 | Property P | No. Contraction       | ferma                                 | -4%         | 3,806.56                            | , 2140.0   |           |                       |
| 9   | 515+300                  | 515+520 | 220        | -0.75                 | sub g 2 +0.5                          | -4%         |                                     | 10         | (         | 3852.000              |
| 10  | 515+520                  | 515+680 | 160        | rieste -1 anest       | sub g 2 +0.5                          | -4%         | 10,533.48                           |            |           | V                     |
| 11  | 515+680                  | 515+780 | 100        | -1                    | sub g 2 +0.5                          | Transition  | V                                   |            |           | 21                    |
| 12  | 515+780                  | 515+800 | 20         | -2                    | -2                                    | Transition  | 0.00                                |            |           |                       |
| 13  | 515+800                  | 515+840 | 40         | -4.5                  | -3.5                                  | Transition  | 1,415.00                            | -          |           |                       |
| 14  | 515+840                  | 515+960 | 120        | -4                    | ferma                                 | flat        | 14,016.00                           |            | 1         | 8                     |
| 15  | 515+960                  | 516+040 | 80         | Station Street Street | sub g1 +0.25                          | flat        | 10,581.70                           | 2819.0     | 0         | 328.980               |
| 16  | 516+040                  | 516+160 | 120        | -4                    | sub g1 +0.25                          | flat        | /                                   | 1          |           |                       |
| 17  | 516+160                  | 516+240 | 80         | -2.5                  | sub g1 +0.25                          | flat        | 21,916.00                           | -          |           | 4404.000              |
| 18  | 516+240                  | 516+300 | 60         | -1.25                 | sub g1 +0.25                          | flat        |                                     |            | 1         | 1401.000              |
| 19  | 516+300                  | 516+350 | 50         | ferma                 | sub g1 +0.25                          | flat        | 0.00                                |            |           |                       |
| 20  | 516+350                  | 516+460 | 110        | sub g +0.25           | sub g 2 +0.5                          | flat        |                                     |            |           | 1238.670              |
| 21  |                          | 516+560 | 100        | sub g +0.25           | sub g 2 +0.5                          | flat        |                                     |            |           | V                     |
| 22  |                          | 516+600 | 40         | ferma                 | sub g 2 +0.5                          | flat        |                                     |            |           | 522.400               |
| 23  |                          | 516+880 | 280        | 0.25+                 | sub g 2 +0.5                          | flat        |                                     |            |           | 1871.370 🗸            |
| 24  | 516+880                  |         | 70         | 0.25+                 | 0.25+                                 | flat        |                                     | 0.00       | 1200-800  | )/                    |
| 25  | 516+950                  |         | 230        | 1.25+                 | 0.25+                                 | flat        |                                     |            | 10736.40  |                       |
| 26  |                          | 518+100 | 460        | sub g +0.25           | sub g 2 +0.5                          | flat        | ,                                   |            |           | 4572.125 🖌            |
| 27<br>SUM   | 518+100                  | 518+500 | 400        | sub g 2 +0.5          | sub g 2 +0.5                          | flat        | CO 000 74                           | 0.740.07   | 40.074.00 | 0.000                 |
| 50M   | Same and a second second |         |            |                       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |             | 62,268.74                           | 6,716.97   | 18,671.03 | 18,697.64             |

Contractor Technical Office Name: Signature: Consultant Technical Office

Signature:

ned Aquire