**عطاء توريد وتنفيذ متر أنابيب وقطع ري زراعية وانشاء خزان توزيع فولاذي 1000 م3 ومحطة ضخ وخزان توزان فولاذي200 م3 في منطقة نور شمس -طولكرم**

**السادة المقاولون،**

**الموضوع: مشروع توريد وتنفيذ متر أنابيب حديدية وقطع ري زراعية وانشاء خزان توزيع فولاذي 1000 م3 ومحطة ضخ وخزان توزان فولاذي250 م3 في منطقة كفر لاقف -قلقيلية**

تحية،

تتشرف الشركة الاسلامية الفلسطينية للتنميه بدعوتكم للتقدم لعطاء مشروع **الري في منطقة .............. و** تشمل وثائق العطاء على دفتر العطاء بما يحتويه من دعوة العطاء والشروط العامة للتعاقد والمواصفات الفنية وتعليمات للمقاولين وجداول الكميات وكذلك المخططات.

يجب على المقاول الاطلاع التام على كامل الوثائق وقراءتها جيداً وزيارة موقع العمل والتحقق من الكميات قبل تعبئة دفتر العطاء.

على المتعهد تعبئة نموذج إجابة دعوة العطاء المرفق وتقديم عرضه قبل الساعة ............. يوم \_\_\_\_\_\_\_\_\_\_\_ بتاريخ \_\_\_/\_\_\_/\_\_\_2020 إلى مقر الشركة الاسلامية الفلسطينية للتنميه الكائن في طولكرم. وسوف تفتح العطاءات الساعة ................... يوم \_\_\_\_\_\_\_\_\_\_\_\_\_ بتاريخ \_\_\_/\_\_\_/\_\_\_\_2011 في مقر الشركة الاسلامية الفلسطينية للتنميه في طولكرم

ثمن وثائق العطاء200 شيقل غير مستردة.

*مع الاحترام،،،*

الجزء الأول: تعليمات للمقاولين

**1)** يجب على كل مقاول قراءة دفتر العطاء بالكامل وختم كل صفحة منه.

**2)** يجب تعبئة الجزء الثاني والثالث من دفتر العطاء بالكامل وختمه ولن يقبل أي عطاء ما لم يكن هذان الجزأين معبأين بالكامل.

**3)** يجوز للمقاول الحضور شخصياً أو إرسال من ينوب عنه حين فتح العطاء.

**4)** إذا قل عدد المقاولين المتقدمين لهذه المناقصة عن ثلاثة فانه يحق للمسئولين عن هذا المشروع إعادة طرح العطاء.

**5)** في مرحلة تقييم واختيار المقاول سوف تؤخذ في الحسبان الأمور التالية:

أ- سعر الوحدة في بنود جدول الكميات.

ب- مدة تنفيذ المشروع.

ج- خبرة وقدرة المقاول على التنفيذ استنادا إلى النماذج المرفقة وتوفر الطاقم والمعدات ( يجب تعبئة النماذج عن الخبرات والطاقم الفني والمعدات).

د- برنامج العمل المرفق.

**6) وثائق العطاء:**

سوف تزود وثائق العطاء المنصوص عليها في دعوة العطاء للمقاولين المتقدمين للعطاء و يعتبر ثمن هذه الوثائق والبالغ 200 شيقل غير مستردة.

**7) مكونات العطاء:**

على المقاولين أن يتقدموا لكامل الأشغال الموضحة في العطاء. سوف لن تقبل العروض المقدمة لأجزاء من الأشغال. على المقاولين تقديم عروضهم على النماذج المرفقة وكل الكميات يجب أن تدون كتابة ورقما. وفي حالة التعارض تعتمد الكتابة.

على المقاولين المتقدمين لهذا العطاء تعبئة الوثائق التالية بالخط الأسود كتابة أو طباعة وتوقيعها يدوياً بالحبر.

- صيغة العطاء.

- صيغة الكفالة المالية.

- جداول الكميات.

- شهادة زيارة الموقع.

- نموذج الخبرة والطاقم والمعدات.

**8) زيارة الموقع وفحص وثائق العطاء:**

على المقاولين المتقدمين لهذا العطاء زيارة الموقع والحصول على كافة المعلومات الضرورية وعلى مسئوليتهم الشخصية. ويجب عليه فحص وثائق العطاء بدقة وان يأخذ بعين الاعتبار أي مخاطر أو مسؤوليات محتملة.

يتحمل المقاول كافة تكاليف الاتصالات والزيارات الميدانية والتحضيرات لدخول المناقصة.

**9) الكميات:**

إن الكميات التقديرية لمختلف بنود الأشغال مثبتة في جدول الكميات المرفق ضمن وثائق العطاء. تعتبر هذه الكميات غير ثابتة وخاضعة للتغير ولا يحق للمقاول المطالبة بزيادة أسعار الوحدة إذا ما حصل واختلفت الكميات سواءً زيادة أو نقصانا مها كانت نسبة التغيرً. ويعتبر سعر الوحدة المقدم من قبل المقاول مع الكميات الفعلية المقاسة بحضور المقاول هي الأساس في تحديد الدفعات والحساب النهائي للأشغال.

**10) برنامج العمل:**

على كل مقاول تقديم تخطيط لسير العمل وبرنامج لتنفيذ كافة الأشغال المتضمنة في العطاء. سوف يعتمد برنامج التنفيذ كأحد البنود الأساسية عند تقييم العروض وإحالة العطاء.

كذلك على المقاول تقديم تقارير يومية عن سير العمل موقعة من قبله ويتم المصادقة عليها من قبل مراقب المجلس القروي ومهندس مجموعة الهيدرولوجيين الفلسطينيين. كما وعليه تقديم مقترحات التنفيذ ( Shop Drawings ) ويتم تعديلها أو الموافقة عليها من قبل مهندس مجموعة الهيدرولوجيين الفلسطينيين.

**11) التجهيزات والآليات:**

على كل متقدم لهذا العطاء أن يقدم جدولاً بالتجهيزات والآليات الرئيسية التي سيستخدمها في هذا المشروع ونوع عملها، عمرها وعددها.

**12) الأشخاص المنفذين:**

على المقاول تقديم قائمة بالأشخاص ذوي الكفاءة والذي يقترح المقاول تنفيذ الأعمال بواسطتهم أو تحت إدارتهم ويرفق تسجيلاً لخبراتهم ومؤهلاتهم.

**13) الكفالات البنكية:**

يقوم المقاول بتقديم كفالة بنكية بقيمة 5% من قيمة العطاء سارية المفعول لمدة ثلاثة شهور(كفالة دخول عطاء) تعاد إليه بعد فتح العطاء إذا لم يرسى عليه وإذا تم إرساء العطاء عليه فانه يقوم باستبدال هذه الكفالة بنكية أخرى (حسن تنفيذ) تعادل 10% من قيمة العطاء صادرة من بنك معتمد سارية المفعول لمدة تنفيذ العطاء من تاريخ توقيع الاتفاقية على أن يعاد 5% من قيمة الكفالة بعد الانتهاء من تنفيذ الأعمال المتفق عليها وتعاد قيمة التامين المتبقية (5%) بعد انتهاء مدة الصيانة والمحددة بمدة عام من تاريخ الاستلام النهائي للمشروع.

إذا خرق المقاول شرط من شروط العقد عليه إصلاحه أو تعويضه وإذا لم يتمكن من إصلاحه يوجه إليه صاحب العمل كتابا في فترة زمنية أقصاها يومين لإصلاح الأضرار وإذا رفض يتم الاحتفاظ بقيمة كفالة الضمان لتغطية أي ضرر.

**14) التأمينات:**

في حالة ما تم إرساء العطاء يجب إرفاق تأمينات عمل سارية المفعول (لمدة تنفيذ المشروع) خاصة بالمشروع, وتشمل طاقم المشروع وبما فيهم مهندس المشروع من طرف مجموعة الهيدرولوجيين وجميع العمال المهرة وغير المهرة العاملين في المشروع. كما يشمل التامين الطرف الثالث لأي حوادث قد تنشا أثناء تنفيذ المشروع. كما يؤمن المقاول معدات العمل وبما في ذلك الآليات أو الروافع أو أي معدات ميكانيكية أو كهربائية قد تسبب في عمل حوادث للعاملين

**15) خبرات المقاول:**

على المقاول تقديم وصف لخبراته وأعماله خلال الخمس سنوات الماضية ويجب أن تتضمن هذه المعلومات:

- اسم الجهة صاحبة العمل وعنوانها.

- وصف الأعمال المنجزة.

- قيمة العطاءات المنفذة.

**16) التسعير:**

جدول الكميات يجب أن يكون مسعر بالدولار (والعطاء يشمل ضريبة القيمة المضافة)

**17) تعديل الأخطاء:**

في حالة وجود خطا في مجموع تكلفة أي بند من بنود العطاء فسوف يعتمد سعر الوحدة المدون ويعتمد المجموع المصحح كمجموع نهائي لهذا البند ويقدر المبلغ الإجمالي حسب هذا التصحيح. وفي حالة وجود تصحيح أو قشط من قبل المقاول، يجب بعد التعديل أن يوقع ويختم من قبله.

**18) تسليم العروض:**

توقع وثائق العطاء في كل صفحة وتسلم في مغلف مغلق مدون عليه اسم المشروع مرفقاً بعرض المقاول وكذلك الرسومات. على المقاول تسليم عرضه باليد وفي المقر المعلن عنه، بتاريخ أقصاه الساعة واليوم المحددين في دعوة العطاء. سوف لن ينظر في أي عرض لم يستوفي الشروط الموضحة.

**19) توقيع العرض:**

سوف لن ينظر في أي عرض يحتوي على تحفظات على أسعار أو وثائق. سوف تعتمد العطاءات المدققة وبشكل واضح ورسمي أينما تطلبت وثائق العطاء ذلك.

- إذا كان المتقدم شخص فيجب عليه كتابة اسمه كاملاً ووضع خاتمه.

- إذا كان المتقدمون شركاء فيجب توقيع أحد الشركاء مع إرفاق وثيقة رسمية تؤكد صلاحيته وتخويله في التوقيع نيابة عن شريكه كما يجب وضع اسم وعنوان شريكه.

- إذا كان المتقدمون شركات متعاونة معاً فيجب التوقيع من قبل مديري هذه الشركات وكذلك إرفاق وثائق رسمية مخولة لهم بالتوقيع.

**20) رفض العطاء:**

يحتفظ صاحب العمل بحق رفض أي عرض مقدم، ليس ملزماً بقبول اقل الأسعار. سوف يأخذ صاحب العمل عدة عوامل عند تقييم العروض تؤثر على نوعية العمل وكيفية التنفيذ (سوف يتم رفض أي عرض لم يرفق معه كفالة بنكية أو شيك مصدق لدخول العطاء).

**21) تحليل الأسعار:**

يحتفظ صاحب العمل بحق طلب تفسير وتحليل للأسعار المقدمة من قبل المقاول إذا ارتأى ارتفاع أو انخفاض في سعر معين وعلى المقاول الاستجابة لهذا الطلب وتقديم التحليل المطلوب.

**22) غرامات:**

يلتزم المقاول بإنهاء العمل خلال المدة المتفق عليها وإذا فشل المقاول بتنفيذ العمل في هذه المدة فانه يتعهد بدفع غرامه مقدارها ( 200 دولار) لكل يوم تأخير. يحتسب المبلغ المقتطع من أول يوم تأخير دون إشعار. يستطيع المقاول تقديم تبريراً لتأخيره إذا كان يتعلق بإجراء اتخذه المشغل في مدة أقصاها (3) يوم من تاريخ هذا الإجراء وإذا لم يتم تقديم هذا التبرير خطياً خلال المدة المذكورة أعلاه لا يعتبر أي سبب للتأخير.

**23) آلية الدفع:**

1. ليست هناك دفعات تحضيرية للمشروع.
2. يتم الدفع عن الأعمال بعد تقديم مطالبة مالية وفواتير ضريبية بالمواد المشتراة والأعمال المنجزة بذلك وموافقة مهندس المشروع على الأعمال من حيث مطابقتها للمواصفات الفنية والكميات المنفذة، ويتم دفع نسبة 90% من الدفعة في غضون شهر من تاريخ تقديم الدفعة.

**24)** الاحتفاظ بسجل للدوام اليومي للعمال يتم اعتماده يوميا من المهندس المشرف على المشروع. كما يقدم المقاول خطة عمل أسبوعية يوضح فيها موقع العمل ونوع النشاط والآليات والعمالة المستخدمة. وفي حال عمل أي تعديل على الخطة فعلى المقاول إشعار المهندس المشرف بالتعديل قبل موعد التعديل بيومين على الأقل.

**25)** يقوم المقاول بعمل لافتة في موقع بئر المشروع على حجر شايش تثبت على الجدران الإسمنتية حسب النموذج المعد لهذه الغاية وتكون تكاليف عمل هذه اللافته محملة ضمن أسعار وحدات المشروع.

**26)** على المقاول تقديم صور فوتوغرافية وأخرى رقمية لكافة مراحل العمل في المشروع.

**27)** على المقاول العلم بأنه سيتم فرض غرامة مالية بسبب نقص إجراءات السلامة من إشارات تحذيرية و غيره بواقع 100 دولار يوميا. ويتحمل كامل المسؤولية عن سلامة العمال والموظفين والمواد والآليات اللازمة لتنفيذ المشروع ولا يعتبر فريق عمل المشروع مسؤلا في حال حدوث خطا مقصود أو عرضي في أثناء تنفيذ المشروع ولا يحق المطالبة بتعويضات مالية أو عينية.

**28)** أسعار البنود المختلفة في جدول الكميات تتضمن أعمال التنظيف من بقايا العمل وإصلاح أي خراب ناتج عن أعمال المشروع وإرجاع كل شيء إلى سابق عهده و عليه يكون المقاول متحملا لكافة المسؤوليات التي تنتج عن الأضرار بالمنشات أو الممتلكات ضمن محيط منطقة العمل .

**29)** على المقاول البدء بتنفيذ المشروع بعد توقيع العقد مباشرة مع العلم بأن فترة تنفيذ المشروع هي **تسعون يوما تقويميا**. وتكون أوقات وأيام العمل المسموح بها منسجمة مع أوقات الدوام والعطل الرسمية لمجموعة الهيدرولوجيين الفلسطينيين وفي حال رغب المقاول بالعمل خارج هذه الأوقات المحددة فان عليه التنسيق واخذ الموافقة المسبقة من المهندس المشرف، على أن لا يشمل العمل في هذه الأوقات بدء عملية الفك أو التركيب المضخات (عملية إنزال التربين في البئر) أو بدء التشغيل للمشروع لأول مرة. وبعد الانتهاء من تجربة وتشغيل البئر يقدم المقاول تقرير فني بالنتائج لأول عشرة ساعات تشغيل وتقرير آخر بعد انتهاء 100 ساعة من التشغيل يوضح فيها كامل المعلومات الميكانيكية والكهربائية المتعلقة باستهلاك الطاقة أو المحروقات، والإنتاجية من الأمتار المكعبة في الساعة وعمق الماء الساكن والمتحرك داخل البئر

**30)**الشركة المتقدمة للمشروع يجب أن تكون تحمل شهادة تسجيل وتصنيف سارية المفعول من لجنة التصنيف الوطنية في قطاع المياه والمجاري.

# نماذج العطاء

تأهيل المورد

اسم الشركة/ المورد:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

العنوان :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

هاتف: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ فاكس:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

الشخص المسؤول :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ المركز :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**اولا- خبرة الشركة**

**يرجى ذكر المشاريع التي تم تنفيذها بمجال (توريد ولحام انابيب معدنية جديدة وقطع ري زراعية وانشاء خزانات فولاذية ومحطات ضخ لمياه الري الزراعية ).**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| موقع المشروع | **(وصف للمشروع)** | سنة تنفيذ المشروع | اسم المؤسسة المشرفة على تنفيذ المشروع | القيمة الاجمالية للعمل | جهة الاتصال من قبل المؤسسة المشرفة على تنفيذ المشروع |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

شهادات خبرة العمال

**يرجى ذكر اسماء العاملين بمجال العطاء:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| اسم الرباعي | نوع العمل | موقع المشروع | سنة تنفيذ المشروع | المؤسسة المشرفة  على تنفيذ المشروع | جهة الاتصال من قبل المؤسسة المشرفة  على تنفيذ المشروع | ملاحظات |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**الجهاز الفني:**

**يرجى ذكر الطاقم الفني والاداري والمالي لشركتكم :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| رقم | الاسم الرباعي | المركز | المؤهل | سنوات الخبرة |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |
| **4** |  |  |  |  |
| **5** |  |  |  |  |

المعدات و الأدوات التي تملكها الشركة:

1- 2-

3- 4-

5- 6-

7- 8-

المعدات المستأجرة ( يرفق عقد الإيجار ):

1- 2-

-3

أقر انا صاحب الشركة المتقدمه للعطاء بأن كافة المعلومات المتعلقة بخبرة الشركة والسائقين والعاملين صحيحه واتحمل مسؤولية اي خلل في هذه المعلومات .

**تاريخ تقديم السيرة الذاتية: .................................................**

**ملاحظة : يجب ارفاق كافة المستندات التي تتعلق بأهلية وخبرة المقاول الفنية والمالية على تنفيذ الاعمال**

**و ميزانيات مالية للاعوام 3 الماضية , و السيرة الذاتية للشركة والعاملين فيها .**

التوقيع مع ختم الشركة :...........................................................................................................

كفالة عطاء

التاريخ :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

إلى السادة: مجموعة الهيدرولوجيين الفلسطينيين

يسرنا إعلامكم بأن مصرفنا\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/فرع\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ يقدم عن المورد \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ كفالة مالية وقدرها (بالأرقام ):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (كتابة):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (دولارا)، وذلك ككفالة دخول للعطاء المقدم من قبله لكم بخصوص ........................................................

ولتأمين قيامه بالتزاماته كمناقص متقدم للعطاء المذكور، وفقاً للشروط المتعلقة بذلك والتي قدم عطائه المذكور على أساسها.

إنّ هذه الكفالة سارية المفعول لمدة (90) يوماً من تاريخ صدورها أو لحين توقيع الاتفاقية مع أحد الموردين المتقدمين للعطاء.

ونتعهد بأن نصرف المبلغ المذكور أعلاه عند أول طلب منكم بذلك, بصرف النظر عن الأسباب الداعية لهذا الطلب أو أية اعتراضات من قبل المورد المذكور.

المصرف\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ فرع: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

توقيع المفوض بالتوقيع: الاسم:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ التوقيع :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ختم المصرف:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**اقــــــــــــــــــــــــــــــــــــرار**

أقر انا صاحب شركة ................. بأن كافة المعلومات أعلاه في نموذج العطاء صحيحة وفي حال تم اكتشاف أي خلل عند التنفيذ من قبل الشركة الاسلامية الفلسطينية للتنميةاو من يمثلها لا يحق لي المطالبة بأي مبالغ مالية تترتب على ذلك.

اسم مقدم العطاء الرباعي:............................ رقم الهوية: .................... العنوان:.......................................

رقم الهاتف:................................ تاريخ تقديم العطاء:.................. مدة السريان .....................................

التوقيع مع ختم الشركة :..............................

ضمان حسن التنفيذ المصرفي

(غير مشروطة)

[يملأ **المصرف/مقدم العطاء الفائز**، الذي يوفر الضمان، نموذج ضمان حسن التنفيذ المصرفي هذا بحسب التعليمات المشار إليها بين الأقواس، إذا كان صاحب العمل يحتاج هذا النوع من الضمان]

[أدخل اسم المصرف وعنوان الفرع أو المكتب المُصدِر]

**المستفيد :** [الشركة الاسلامية الفلسطينية للتنمية]

**التاريخ:** [أدخل التاريخ]

**ضمان حسن التنفيذ رقم :** [أدخل الرقم]

**تم إبلاغنا بأن** [أدخل اسم المقاول] **(يسمى فيما يلي "المقاول" )قد تعاقد في عقد رقم** [أدخل رقم العطاء] **المؤرخ لديكم، لتنفيذ** [أدخل اسم العقد ووصف موجز للأعمال المفروضة عليه] **(يسمى فيما يلي "العقد" )**

وعليه، فإننا نعي، بحسب شروط العقد، بأن ضمان حسن التنفيذ مطلوبا.

بطلب من المقاول، نحن [أدخل اسم المصرف] نلتزم بدفع أي مبلغ أو مبالغ لا تتجاوز بمجملها مبلغ [أدخل المبلغ بالأرقام] ([أدخل المبلغ بالكلمات])[[1]](#footnote-1) هذا المبلغ يكون واجب الدفع بالأنواع والنسب من العملات التي يكون بها سعر العقد واجب الدفع، فور تسلمنا منكم أول طلب خطي مصحوبا بإفادة خطية تفيد بأن مقدم العطاء قد أخل بالتزامه (بالتزاماته) تحت العقد دون الحاجة لأن تثبتوا أو توضحوا الأساس لطلبكم أو المبلغ المحدد فيه.

تنتهي صلاحية هذا الضمان ليس قبل 28 يوما من تاريخ إصدار شهادة استلام الموقع، وتحسب بناءا على نسخة من هذه الشهادة ستقدم لنا، أو في تاريخ [أدخل التاريخ باليوم والشهر والسنة][[2]](#footnote-2)، أيهما أولا. وبالتالي، فإن أي طلب للدفع تحت هذا الضمان يجب أن نستلمه في هذا المكتب في ذلك التاريخ أو قبله.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[توقيع (تواقيع) الممثل (الممثلين) المخول (المخولين) من المصرف]

المرفقات المطلوبة بالعطاء

1. وثائق العطاء الاصلية بملف مغلق ومختوم بختم مقدم العطاء
2. كفالة دخول عطاء بقيمة 5% من قيمة العطاء تسري لغاية 90 يوما بدءا من تاريخ فتح العطاء .
3. نسخ أصلية لوثائق تحدد الوضع القانوني، ومكان التسجيل، ومكان عمل مقدم العطاء الأساسي، ووكالة رسمية للموقع على العطاء لإلزام مقدم العطاء.
4. القيمة الإجمالية للأعمال التي أنجزت في السنوات الثلاث الماضية.
5. الخبرة في تنفيذ أشغال مماثلة في الطبيعة والحجم في السنوات الثلاث الماضية وتفاصيل كل عمل لا زال قيد التنفيذ أو متعاقد عليه؛ والعملاء الذين يمكن الاتصال بهم للحصول على معلومات إضافية حول هذه العقود.
6. قائمة بالمعدات الرئيسية المقترحة لتنفيذ العقد.
7. مؤهلات وخبرات العاملين الرئيسيين في إدارة الموقع والتقنيين المقترحين في العقد.
8. تقارير حول الوضع المالي لمقدم العطاء مثل بيانات الربح والخسارة وتقارير الحسابات للسنوات الثلاث الماضية.
9. دليل على توفر رأس مال العامل لهذا العقد (التسهيلات الائتمانية المتاحة والموارد المالية المتوفرة الأخرى).
10. التفويض بمراجعة مصارف مقدم العطاء.
11. معلومات حول أية دعاوى قضائية حالية أو خلال الثلاث سنوات الماضية، متورط بها مقدم العطاء، أو كان، أطرافها المعنية المبالغ المختلف عليها والإحالات.
12. [اية وثائق تتطلبها لجنة فتح العطاء]
13. خصم المصدر ساري المفعول.

جدول الكميات

**1-Pipes and fittings for Noor Shams/ Tulkarem Governorate**

| Item No. | Description works | Unit | QTY | Unit price $ | Total price($) |
| --- | --- | --- | --- | --- | --- |
| 1. **SUPPLYING, TRANSPORTING & INSTALLING PIPES AND FITTINGS:**   *Supplying, transporting and unloading in the site of work in Noor Shams/Tulkarem Governorate the following pipes and fittings, all to be new and not used before or renewed, and they must have the (Techen stamp or local and international equivalent).The working pressure for the fittings is 16 Bar as a minimum unless otherwise is required*. | | | | | |
| 1.1 | Supply anywhere in the project site new **6"** nominal diameter pressure steel pipes, 3.96 mm wall thickness, with the (Techen Stamp or equivalent) on each pipe. The pipes must be newly manufactured, smoothly rounded on the edges and no signs of corrosion or welding along the pipe. The pipes should be manufactured according to specifications S9 or equivalent. The price includes all necessary works to supply the pipes to the site of work including transport costs, loading and unloading. | M.L | 1800 | 17 | 30600 |
| 5.1 | Supply to the site of work **6" cast iron wedge gate valve** for 16 Bar working pressure (W.P).-enamel coated. Complete with flanges, gaskets, bolts and nuts, (None rising stem) with hand wheel for each valve. All in accordance with ISO Standard No. 5996 or local and international equivalent. The general specifications are according to Annex S2. | Piece | 2 | 400 | 800 |
| 7.1 | Supplying of **6" Strainer** of cast iron body for 16 bar working pressure complete with companion flanges, gaskets, bolts and nuts. The general specifications are according to Annex S6. | Piece | 1 | 300 | 300 |
| 8.1 | Supply to the site of work **2 inches** (steel **Compound air valve with 2” globe valve-doule orifce)** complete As ARI, 16 bar or local and international equivalent and according to general specifications mentioned in Annex 1, S3. | Piece | 2 | 350 | 700 |
| 9.1 | Supply to the site of work **(6") Dresser** for (16) Bar working pressure) complete (flanges, gaskets, nuts, bolts etc.) with two tie rods 600 mm long, diameter of 5/8" and 4 ears for each dresser. | Piece | 2 | 125 | 250 |
| 11.1 | Supply to site of work **(6") cast iron swing check** valve, complete with complete with counter weight, flanges, gaskets, bolts and nuts, for 16 Bar working pressure) -Epoxy coated with extended arm and lid (cover) in accordance with BS. No. 5153 or local and international equivalent and according to general specifications mentioned in Annex 1, S1. | Piece | 1 | 900 | 900 |
| 12.1 | Supply **6" T or steel elbow** at either 90 or 45 degrees angle | Piece | 20 | 30 | 600 |
| 19.1 | Supply **6" Woltman water meter** complete with flanges, gaskets, bolts and nuts for 16Bar (W.P)- Epoxy coated. The measuring unit should be removable type without removing the body from the pipe (interchangeable type). The water meter should be according to ISO 4064 or equivalent as S5 | Piece | 1 | 750 | 750 |
| 21.1 | Supply and apply all paints to make two faces for **6"** lines, one as **red oxide primer** as lead-free, oil-based, high-quality, rust-resistant as shown in **Annex S8b** and where necessary within the project area (on old existing pipes or the new pipes). The other face is made of **zinc oxide oil-based paint**, high-quality, corrosive-resistant as shown in **Annex S8b.** The viscosity of the paint may be modified by the addition of a solvent such as turpentine, or thinner. Pigment and filler materials as titanium dioxide, linseed oil, or alkyd resins as bindersand where necessary within the project area (on old existing pipes or the new pipes). The price for this item includes all painting works and paint materials and quantities; the price is calculated based on the meter length. | M.L | 1800 | 1.5 | 2700 |
| 23.1 | **Distribution of pipes 6"** according to the attached map route using machine carriers and workers to distribute in open areas (where no dirt roads) the 6" pipes on the route of pipelines. The price includes all necessary works and costs for installing by **welding** 6" inches steel pipes and accessories (as 2" or 3" or 4" or 6" coupling, tees and nipples, plugs) including all necessary farms’ openings to irrigate the farms and to install future branches across these pipes. This is according to specifications S8a and the price includes all costs of welding bars, costs of welding machine and power. The price for this item includes all costs of works and materials necessary including the excavations depth not less than 80 cm, width 50 cm, basecourse grae B backfilling, compaction 98%, reinstatement to the same conditions (asphalt roads, concrete roads). This is to install the 6," pipes at the main road crossings and internal main roads and where necessary. This includes the roads inside the land of Noor Shamsadjacent to the main road. The pipe must be buried in the ground along the street and despite the length. The contractor should investigate all underground (main and secondary) longitudinal and crossings and roads where the pipes buried in the ground according to the above specifications. The price includes all works and materials necessary to carry out the main connections of the outlet existing 6" pipes at the booster pump site and to connect to the water supply groundwater well and the supply line to the distribution reservoir. This is including excavation, backfilling, cutting, shaping, and welding and the backfill materials as specified in annex S8a. All works and materials according to the specifications S10. Therefore, the contractor should follow the route of the pipe and watch carefully the entire road crossing and the entire width at each section and the number of crossing and total lengths of crossings because there no payment for this work and must be included in the 6" unit price. The price for this item includes the installation works includes all costs of excavations, cutting, shaping, fixing, welding, paintings, for all 6" fittings to be installed on the 6" pipes lines as water meters, strainers, NRV, dressers, air valves, gate valves..etc. | M.L | 1800 | 3 | 5400 |
| 24.1 | **Ditto** 23.1 but for **4"** pipes, Distribution using machine carriers and workers to distribute in open areas (and where no dirt roads) the 4," pipes. The price includes all necessary works and costs for installing by welding 4 inches steel pipes and accessories (as 2" or 3" or 4" or 6" coupling, tees and nipples) including all necessary farms’ openings to irrigate the farms and to install future branches across these pipes. The price includes all costs of welding bars, costs of welding machine and power. The price includes all costs of works and materials necessary for the excavations to install the pipes at the road crossings as for 6” pipes. This is including cutting, shaping, and welding and the backfill materials grade B. Therefore, the contractor should follow the route of the pipe and watch carefully the entire road crossing and the entire width at each section and the number of crossing and total lengths of crossings because there no payment for this work and must be included in the 4" unit price. The price for this item includes the installation works includes all costs of excavations, cutting, shaping, fixing, welding, paintings, for all 4” fittings to be installed on the 4” pipes lines as water meters, strainers, NRV, dressers, air valves, gate valves..etc. | M.L | 2000 | 1.5 | 3000 |
| 26.1 | **Champers:** Supplying and placing ready mixed concrete B250 for the inlet outlet and overflow manholes of the reservoir. The unit price including supplying, placing reinforcing steel bars, (ASTM designation A-615 or equivalent, strees =4200 kg/cm2), the price includes all excavation and back-filling, leveling and compacting around the chamber according to the Engineer instructions.  The price includes the supply of all materials and works to install 3-fence aprons placed at the inlet, outlet and over flow clean pits. The size for each apron (open shed) must be enough to hold all fittings compounded in the apron and with at least 0.5 meter extra size from all sides of the fittings. The apron is built on solid and leveled base made of reinforced concrete slab 12cm thickness and mesh steel bars 5bars (Ø10 mm) in each meter in both directions. It includes building the apron floor tie beams 30 heights and 20 cm wide reinforced with 4 Ø10 mm and Ø8 mm stirrups each 20 cm. Fix in the tie beams steel tubes RHS 80\*40\*2 mm galvanized tube each meter center to center. The tubes total height 2.0 m of which 1.7 meter installed at right angle and 0.3 meter at angle 60 degrees pointing outward. A galvanized steel mesh around each apron space and opening of 15\*5 cm, and 6- mm thickness over the tubes’ height. The mesh is to the tube by welding 10 points at each tube. The apron contains full open door (90 cm wide) of the same design materials and height as for the apron with main frame (profile RHS 80\*40\*2mm, double braced in the middle height to fix a sliding rod and lock. The mesh is welded to the apron frame with the same specifications. The price for this item includes all works as excavation, backfilling, transportation, cutting, shaping, welding, painting to connect with old networks pipes, and at the booster pump station and the existing concrete reservoir. | M3 | 6 | 500 | 3000 |
| 28.1 | **Relief valve:** Supply and install 2 inches pressure relief valve, 16 bar, complete, The price includes excavation, cutting, welding, adding 2" record, screws, bolts and accessories that are needed to assemble the valve and according to specifications Annex 1/ S7. | Num. | 1 | 1000 | 1000 |
| **Total of supplying and installing pipes and fittings excluding vat (zero vat)** | | | | | **50000** |

**2- 1000 m3 steel reservoir**

| **Item No.** | Description works | unit | QTY | Unit  Price $ | Total  Price $ |
| --- | --- | --- | --- | --- | --- |
| 1.3 | Supply and Install metallic corrugated galvanized steel irrigation distribution reservoir with a volume capacity of **1000 m3** of water in Kufr Thulth-Tulkarem Governorate.  **Total Height** of the reservoir after assembly of the steel sheets is 2.56 m and the height level of water will be no more than 2.15 m. The wall sheets are metallic corrugated galvanized steel thickness of not less than 1.5 mm  The outer Radius of the reservoir is 11.8 m.  Total Height of the reservoir after assembly of the steel sheets is 2.56 m. The lining sheet is finished by smooth finish using polyester fabric and avoiding punching or scratching of the sheets. Therefore, the upper sheets edges nuts be covered with PE cover at edge sheets.  The whole reservoir should be removable (simple assembly and disassembly)  The fabric lining size must be enough to cover the whole tank area and extra length not less than 20 cm below the tank top level; the extra length must cover all tank wall form all sides as shown in the attached drawings and at the same level. The liner covers is fixed to the tank frame using ropes, (metallic cables not less than 4 mm thickness the cables to be fixed on sheet wall and bolts between two nuts and washers), the plastic ties to insure tightens and connection. The cover is fixed using metal rings and maximum spacing between rings does not exceed 50 cm and plastic tie between each two ties. The rings must be tightened to insure maximum tension with NO sagging in the cover.    All pipes to be fixed on the supporting Reinforced concrete beam using ring 1” pipes and welded to the 3” and 4” pipes (filled with concrete). The 1” pipes to be as galvanized ring 3.25 mm thickness as shown in the drawings.  The price includes the supply and installation of all piping for inlet, outlet, and washout and over flow as shown in the attached drawings. The pipes must be made of 6” galvanized steel pipe thickness not less than 3.96 mm lined from inside with cement mortar and lined from outside with PE layer 1.8 mm thicknesses. The reinforced concrete ring includes the supply and fix of 3” or 4” (According to drawing) galvanized pipes with thickness not less than **3.96** mm in circumference of the tank **filled with concrete**. The distance between each two pipes is **2.0** m (center-to-center of each two pipes) and the height of the pipes is the same as the height 2.56 m of the tank and taking into consideration the slope height which ranges between zero and 25 cm). The 3” and 4” pipes must be all filled with concrete inside to the top level. And to be connected from the above busing galvanized RHS profile 8\*4 cm \*3 mm thickness and the upper middle by ring of 1” galvanized steel pipe 3.25 mm as show in the attached drawings.  The pipe system inside the tank must be equipped with all necessary materials to insure tight joints for any small water leakages. The 6” steel pipe inlet lined from inside with cement mortar and epoxy painted or, PE from outside the thickness of the steel 3.96mm. The supply and installation shall include but not be necessary limited to:   * The price for this item includes the preparation, excavation in all types of rocks and Leveling of foundation; the foundation shall have a diameter of at least **two meters larger than the diameter of the reservoir**. The price of this item includes all works necessary to open a road (if necessary) and to transport all materials to construct the reservoir. This includes excavation and backfilling, and compaction works. Backfilling of selected materials as grade B base course in layers (each layer thickness max. 30 cm) and maintain 98% sub grade of the tank (rock cutting, backfilling to reach at least 40 cm level above the road level from north side of the tank). Excavation is done in all types of rock and soil. The reservoir sides: the price includes excavation, cutting and leveling the surrounding reservoir basement for building stone walls; which is made of boulders hard stone dimensions not less than 120\*70\*50cm. The dimension 120 cm is toward reservoir center, and 70 cm wide, and 50 cm thickness) and act as a retaining wall. It is built on leveled reinforced concrete base (60 cm wide, 15 cm thickness along stone wall base and reinforced by steel mesh (Ø12mm the height of the wall is up-to reservoir finish level (40 cm above the adjacent dirt road level from the northern side). The maximum wall height at any side should not exceed 1.5 meter then make step or enough slope from the base to the ground level. The stone walls are added everywhere necessary around the reservoir from all side sides; so as to obtain fully stable reservoir base against movement and water drainage from the roads. The price includes clean the site and transport excavated and unwanted materials away from the site. * Supply and lay two-base course layers each should not be less than 15 cm thickness after compaction; the overall layer shall be compacted to not less than 30 cm and relative compaction 98% . * Supply and add a sand layer with min. 15 cm thick; this layer shall be installed inside the tank above the base coarse layer. * Fixing of the tank (assembly) including all materials and works that were mentioned or not mentioned in the specifications and must insure stable, level and tight reservoir. * The price for this item includes the supply of materials (all reservoir 6” pipes and fittings show in the attached drawings and where placed on inlet pipes, three outlets pipes, clean and over flow pipes) and according to standard fittings specification for all pipes and fittings. This includes supply and install of all internal and external 6” pipes, and these fittings as follows (#,diam, PN16 all according to Annex 1): **five** **gate** valves diam 6” , **four** dressers diam6”, **two** compound steel **air** valves 2” with 2” globe valve and couplings, 6” **float valve** complete including float ball valve and piping 1”, supply and install 1” transparent water level indicator with 1” globe valve and 1” couplings , **two strainers** 6”, **Nor Return Vavle** 6”, **two water meter** 6”, **jacks, elbows**, Tees, couplings….etc as shown in the attached drawings. The price for this item includes all works as (welding, cutting, shaping, transporting, distribution….etc) to connect the piping system to the reservoir (Inlet & outlet, wash out, over flow) as shown in the attached drawings   The price includes supply and install a reinforced concrete B-300 ring beam (**50cm depth\*25cm width**) shall be constructed around the tank at the ground level. The outer face of the beam must be **fair face finish** or by using plaster 3 -faces of plaster (rough, smooth, and shebreez) using standard percentages of plaster materials. The supporting concrete beam reinforcements details are as follows:  **Use 10 steel bars, Ø12 mm** as shown in the attached drawing  Use stirrups Ø 8mm each 20 cm. over all the beam  Before casting concrete, obtaining the approval of the field supervisor is mandatory. The price includes having 2 concrete samples for compression testing.  The tank shall be equipped with a transparent vertical pipe connected to the outlet to indicate the internal water level and to be properly fixed.  The lining, cover PE materials must be encased from inside with **plastic cover sheets over the entire walls to avoid punching of the PE lining** and all materials should be suitable for drinking water and to have at least the following specifications:  **Fabric, Type polyester 1100 Dtx, 200 gm/m2**  **Total Weight 740 gm/m2.**  **Breaking strength: 280/260 kg/5cm.**  **Tear strength: 110/100 kg.**  **Adhesion 12 kg/5cm.**  All corrugated sheets shall be fixed vertically without any buckling; no spaces or voids shall be left between the sheets.  The price includes fixing with galvanized bolts and nuts of the corrugated galvanized steel sheets of the tank. The overlapping shall not be less than 25 cm in both directions: vertical and horizontal. The bolts spacing shall be two bolts each 5 cm over the entire tank assembly.  **The price include supply and install Steel Cover Shed (All According to the attached drawings)**: Supply and install all materials to build a steel shed to cover the tank against light and to achieve complete confinement using steel boxes and frames and covered with corrugated steel sheets 0.5 mm. The tank roof includes door opening 90\*90 cm made of galvanized sheets 2 mm and frame 4\*4 cm \*2 mm and lock. The roof cover includes 9 main footings 60\*60\*50 B-300 reinforced with a mesh of steel diam 10 mm. Supply and Install (S&I) Main RHS box steel Galvanized 10\*10\*cm \*4 mm to be fixed inside the foundations and to the level of tank taking into consideration the differences in height due slope for rain water drainage as show in the drawing. S&I to RHS Galvanized 10\*10\*cm \*4 mm to connect the main supporting columns and end at outer supporting 4” Galvanized pipes. S&I Other RHS boxes 8\*8cm \*3 mm to be installed between the main supporting beams and on the other direction each 3 m. S&I RHS boxes 8\*4cm \*2mm over the entire space maximum each 90 cm center to center as shown in the drawing. All welded steel profiles must be painted two faces. The whole RHS boxes to be fixed on the supporting 3**"**, 4**"** galvanized pipes and RHS ring 8\*4cm \*3mm. S&I corrugated galvanized steel sheets 0.5 mm over the entire reservoir space to the outer edge of the galvanized ring and fixed with bolts to the steel frames and shown in the drawings. The inner supporting frames are fixed in the concrete foundation and extend to the sand level and ends with steel cap steel plate 25\*25 cm \*1 cm thickness. The upper supporting frames start with the same cap/plate and the polyester liner laid on the inner plated and bolted tightly to the upper plate by 8 bolts daim 14 mm. The main supporting farmers to be fixed by welding as rigid connections using standard welding bars and specifications. To avoid punching of inner liner the reservoir must be filled by 30 cm of water height before start welding. The secondary frames are to be fixed on skids before welding.  **The price includes water quantities to fill the tank (1000 mcub) to the top level and conduct all necessary test as overflow, closure by the float valve and to carry the leakage test..**  The PHG reserves the right for carrying additional testing for any part of the works included in the contract, during and/ or after the execution of the work. In the event that the results of such tests are not satisfactory and not in conformity with the specifications requirements, the contractor shall bear the costs and any other implications of such tests. | L.S | 1 | 45000 | 45000 |
| **Total of supplying ,installing & transporting of the 1000 m3 steel tank excluding vat (zero vat)** | | | | | **45000** |

**3)- Booster Pump**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TOTAL**  **Price($)** | **UNIT**  **Price($)** | | | **QTY** | | **UNIT** | **DESCRIPTION OF WORKS** | **Item NO.** |
| **The contractor must submit the materials specifications, certificate of origin, catalogs and on site testing report which shows that the materials are matching with the manufacturer specifications.** The contractor shall submit in his offer and supply maintenance manuals, catalogs, characteristic curves, testing certificates, shipping, lading documents and specifications of pumps, motor, fittings, mechanical and electrical control devices, cables, wiring and all accessories and ancillaries to complete the work. All to be new and not renewed in accordance with the specified specifications. The contractor should verify the design equipments by conducting field visits to the pump site and must be before ordering any equipment or materials as follows: the contactor must check and verify and match between the reality and the design quantities mentioned in this tender. If he notices any difference or no matching, then he must inform the supervisor engineer and find together a suitable solution to such conditions. The contractor should be responsible technically and financially to supply the suitable materials. All connections including the electrical and mechanical fittings should be according to the PWA general pumping standards and the layout view. | | | | | | | | 1.3 |
|  |  |  |  | |  | | **Supply to the site of the balancing tank at Noor Shamswell site, Main Electrical Control Panel Unit**: suitable for **80 m3/hr** at total dynamic head **160 m**, for the mode of operation, a control board according to the following specifications and supervisor instructions:  **Main Electrical Control Panel Unit**: Price includes all works to carry on the electrical connections and cables to main grid and panels and supply and install suitable new control panel for pumping **80m3 @ 160** meter, and installing in the site for the mode of operation, a control board according to the following specifications and supervisor instructions: control panel box shall be made of **three major compartments** and the price for this item include all equipments and works mentioned below: The first compartment is for main hour meter and fusses- Main Company Breaker. The price include all cables and connection necessary to connect between the main 3-phase power source at the Booster site (transformer) and the Main Electric Control Board inside the pumping room. Cables size (XPLE high quality insulation 90 CO) **3x95** + **1x50 mm2.** The price includes all materials and works to install the above cables including whatever of electric, mechanical fittings and accessories as PVC and steel trenches, anchors with clamps, jumpers, stays including base, anchors steel wires, The cables must be lay inside 4"PVC/as rubber pipes of flexible spring type two layers. The price includes excavation inside all types of soil and rock trenches not less than 40\*30 cm and lay the cable inside these trenches and adding pure sand as backfilling to all size of the trenches and casting in the last 10 cm of the trenches with plain concrete over the pipes. **The second compartment** is for the **100 hp inverter** as ABB, or equivalent as shown specifications, main breaker as Siemens, contactors, capacitor(s) bank, main cables inlet/outlet.), It shall be IP56 protected, thermally painted paint as (RAL 7302). All main cables and wiring are inside ducts and must be closed with special plastic cover and protected against human electric shock. **The third compartment** includes all control circuits, and secondary contactor, breakers for the high voltage cabinet or the low voltage. The control panel must be fixed to the wall by six Jumbo screws and laid on a reinforced concrete foundation 40-50 cm above the ground. The contractor should submit as built drawing including soft and hard copy drawings. In case the contractor will use any digital control equipment including PLC, HMI screen; then he must submit the cable, the software, and new version of computer laptop as hp i7- double core and any other accessories that are necessary to operate and maintain these digital equipment; meanwhile the price for this item includes to train the well’s operator and technical staff on how to use and program the PLC and control panel and all installed equipment in this tender. The training period should not be less than 9-hours training hours over three separate days including safe operation, manual instructions, faults and calibration of equipments (inverter, breakers, timers, etc..).  The labeled nameplates should be mounted at the front of the main board behind the doors and above every switch and group of lamps. Control electric lamps 24v must be fixed to control all operation system, the starter shall be used to start, run, stop , protect and control manually and automatically by using the general required installation of the following equipments completely. The price for this item includes:   * The power circuit must consist of the following: **main circuit breaker** MCCB 3**\*150 A**, 25KA adjustable for the **company** and for **generator** (as MOLLER) **two pieces**. The price includes supplying and installing **manual change over with mechanical and electrical interlocks** switch 4\***150 A**, SOCOMEC type for manual operation. * Bus bar **300A/0.6KV** (3 phases and neutral and earth) * Complete unit 4p \* 20KA **surge arrestors** of replaceable type. With box fuse **3\*63A**. * Digital screen inverter **100 hp** see the annex. Solid state frequency converter as ABB type (with **bypass contactor 100 hp** as MOELLER type equipped with over /under load, over temperature and all control system needed with all protections rated at suitable power that matches the pump motor with (0.8-1.2) over load range). The inverter must be programmed to meet with manufacturers obligations for start-up and shut down of the submersible turbine   **Capacitor Banks**: Standby capacitor banks with discharge resistors compensating reactor dry type 400v 50 Hz to reach power factor not less than 0.97 Ducati. Three phase capacitor with resistors **20 KVAR** Ducati type.   * **Digital multi meter** which is able to read directly from a screen (V, Hz, KW, A, PF). * **Low and high voltage controllers, phase sequence and phase failure controllers (devices) and relay(s)** of best quality as MOELLER. * **On-off push** button set and emergency off button. * **Reset** push buttons red color 22 mm. * **Overload** relay unit rated at 1-1.5 of motor full load including digital motor screen protection control board. * **Temperature relay** unit and rated for the submersible motor. It includes thermal protection relay and thermistor sensor, including cable screened twisted pair (screen earthed at one end only) digital motor screen protection control board with all cables and connections. * HRC fuses **3\*63 A** complete Fernaz type. * WHM 50\*50mm. * **24 h clock** with 150 hr mechanical reserve. * Suitable **automatic breaker** **150 A** with adjustable thermal and magnetic protection (ISC>=25KA) NZM. * (0-500V) 96\*96mm **Voltmeter** with selector switch between phases and neutral. * (0-300 A) 96\*96mm ammeter for the three phases. * 3 phase fuse holders set , 10\*38mm , with suitable fuses , * **The dosing pump should have relay controller for control and connection with the system** * **Suitable earth leakage relay** class **A (AC and Dc trip).** * Contactor with discharge 40 KVAR Moeller type. * **Running hour** timer * **Manual motor speed** controller and mouthed on outside board (range 0.8-1.2 normal speed) * **On-off** lamps for inside doors cabinets * **Breakers** for service as Siemens type. * **Relays** and timers 24 V for no flow switch and high-pressure, low-pressure sensors, temperature. * Three phase 50 Hz 390V (**KWh-meter**), /5A-200/5 CT’s. The KW-h meter as electromechanical meter or solid state and pre-paid card electric type. * 24V/ 50Hz **indication lam**ps installed in front of the control cabinet.. * 3 position selector switch **A-O-M**. * 220-2\* 12V (AC) **transformer 100VA.** * The price includes **all cables** to be used for control purposes shall have the following cross section: * **(3\*95 mm2 +50 mm2**) for the internal connections inside main board and the contractor has to check and order the exact required length (as item 2 properties). * 1.5 mm2 for the coil driving wheel circuits. * 2.5 mm2 for the circuits of tension measurements. * 1.5 mm2 for the sensors. * 4.0 mm2 for the circuits of intensity measurements. * All terminals shall be carefully protected to assure electrical insulation. * Switches, measuring instruments, and warning lights shall be installed in the front side of the panel. * The control panel shall be manufactured with enough space **(minimum 40% free space of the total size)** to insure easy maintenance and no interface between the wiring for all circuits. * **All wires must be coded clearly** and fixed with special wire heads to avoid loose connection. * All timers (PSK), relays and contactors shall be of best quality as Siemens * The contractor shall supply any other materials and devices that might be missed here and considered to be essential to complete the work without claiming any changes in unit prices. * The control panel must be equipped with an alarming bell (100 dB at 50 meters distance) and flashing red alarm (should be visible from 300 meter during day time). **Alarms for all cases of failure as: voltage drop, low or high voltage or phase failure, phase sequence, high or low pressure and no flow, high temperature etc…** * The control panel **must be equipped with** control circuit for both the probe water sensor and digital screen for hydrostatic water level sensor. * **Temperature control** as digital screen * The alarm must be muted with/without general reset and there should a special button in the front door to stop/reset it alone. * Circuits must consist of the all necessary materials to operate and protect the system automatically and manually, the wiring color system, numbering all the components. The price includes the design of the whole system of control the contractor is intending to carry. The contractor should also submit at the end of work a s built drawing.   The control panel deign should include:   * Transformer 230/24V 150VA * Water level relay HK type. * 220V AC /80 Watt and **two fans** with filter in each compartment, one for taking in air and the other for taking out the air with grid ( for the panel) complete with thermostat protection. * SIREN (alarm system)   Alarm system 24V are equipped **ON-delay timers** for :   1. High pressure outlet 2. Low pressure outlet 3. No flow 4. Soft start faults 5. High temperature 6. Low, high voltage, phase sequence , failure   The motor must not restart more than the recommended number of starts per hour and day by the manufacturers.   * The price includes **all works, as excavation** works for installing pressure switches, flow switch and level sensor and all the electrical parts with suitable conduits and metal ducts to complete the works. * The price includes installing and testing for the mode of operation all mentioned devices and sensors. The control panel must be equipped with earthling unit so the price includes. * **Earthling**: The price of the control panel includes supplying and installing complete earth unit with earth equalizer compressing C40 box copper B.B. 25 mm2, with minimum two concrete manholes as foundation lines , two earth electrodes, D>19m, L=1.5m and any other missing materials to earth the pumping station . The price includes testing earth unit so as to fulfill the standard requirements (resistance less than 1.5-2 ohm). The across different fittings in the piping system. * The price also include supply all materials (as cables, in-out sockets and install, two outlets as 3-phase complete service unit for the pumping room including Main MCB 5\*20A -10 KA MOLLER type. MCB 2 \*10A – 10KA Moeller type the control * The price include all cable materials and works to conduct the electrical connections of the thermistor sensor inside the motor -(the cable 3x1.5 mm2 , the cable should be of suitable length. Use flexible thermal conduits, cable glands, wire terminals& labeling at both ends and all the accessories needed to complete the work as excavation & backfilling, the cable from the control panel to the head of pump motor. * **Wiring and Lighting the pumping room** Supplying and executing all materials needed for inside and outside lighting of the station (pump and station yard) including all works, trenches, cables, sockets etc. according to the following: * Supply and install 2x36 W flourcent surface mounted (water proof) IP56 for outside the room * Supply and install single split one air conditioner inside the pumping room, size 2-ton (24000 BTU/hr) inverter technology and EER > 13. * One phase sockets number four * Lighting the room from inside by four double-glass fluorescent lamps (36 w , water proof). * 3x30 w emergency 10 hours duration lighting fixture to be fixed in accordance with the supervisor engineer's instructions. * The lighting service should be controlled by a separate DGB. Its power source is directly controlled through a double pole MCB. * Lighting the outside of the rooms by External four projectors each of 150W HyLite LED Prism, as Philips water proof IP 56 with aluminum body (high quality) (the price includes all materials and works to carry the inside and outside wiring and lighting. The projectors, will be switched on from the service DGB. Distribution box for lighting suitable for 24 v circuit breaker (DBG). Also the price includes conduits, (3x2.5mm) and all size of cables& all accessories needed to complete the work. Supplying materials and executing 5 intake power sockets: one as three-phase and the other four as one-phase. The price includes supplying electric cables, leads, on-off keys, power sockets, trenches…etc. The price includes all any other missed works or materials to execute the lightening item |
| 11000 | 11000 | | 1 | | L.S | |
| 15000 | 15000 | | 1 | | pump | | **Supply and install** in the site of the well a **booster pump turbine** with a capacity of **80 m3/hour at a total dynamic head of 160 m.** It has to be installed inside a new room (shed) as shown in the specifications below. All stages of the turbine made from casting iron, bronze, stainless steel column, a stainless steel screen filter for the pump and any other additions to achieve the required head and quantity. Operating efficiency should not be less than 73%, The booster technical data are as follows:   * Liquid water is suitable drinking. * Design capacity (m3/h): **80** * Design anticipated total head (TDH) (m): * Anticipated turbine discharge at TDH at **160 m** * Shut-off head limits (m):minimum **220m** * Pump overall efficiency at the intended point is not less than 73% * Minimum bowl efficiency at run out capacity (78 %) * NPSHA at maximum run out capacity (m): 6 * NPSHA at maximum anticipated TDH (m): 4 * Motor and pump operating speed (rpm): 2900-3000 * Stainless steel column, stainless steel screen filter * Closed impellers manufactured from bronze and cast iron bowels. * the pump shall be capable to run at shut off head for a few minutes without mechanical problems * The electrical motor must be supplied with RTD (PT 100) temperature protection. The type of motor connection must be suitable to present the motor temperature digitally. The price include all wiring, PT cables and connections and works required to connect the motor inside the well and the main control panel with relay and off-alarm * Contractor has to connect the motor to the control panel upon his responsibility and the price includes all cables as follows:   The price includes supplying all cables and materials and executing all electrical connections needed between the following elements and despite of the length required: A- cable one (including works and materials) to connect between the main 3-phase power source (Municipality Transformer) and the Main Electric Control Board inside the pumping room as ABC type 3x50+1x25 mm2 B- a cable between the Main Electric Control Board and the electric motor. The cable size and specifications are as follows green color, copper conductors are solid and made of pure copper XPLE, PVC insulated, with inner sheath, 600 V, conductors sizes 3x50+1x25 mm2. The price includes all materials and works to install the above cables including whatever of electric, mechanical fittings and accessories as PVC and steel trenches, anchors with clamps, jumpers, stays including base, anchors steel wires, standard wood columns. The cables must be lay inside 4"PVC/as rubber pipes of flexible spring type two layers. The price includes excavation inside all types of soil and rock trenches not less than 40\*30 cm and lay the cable inside these trenches and adding pure sand as backfilling to all size of the trenches and casting in the last 10 cm of the trenches with plain concrete over the pipes. The price includes supplying and installing all electric motor control devices (as RTDs thermal, over load) and any other connections including cabling inside or outside the pumping station relevant to this work and according to standard specifications for this work. The opening tender committee will receive an offer about type and motor specifications, catalogues, and an in site testing report which shows that the motor is matching with these specifications.   * The motor shall be designed and built for prime 24-hours continuous service at any and all points within the required range of operation without overheating, cavitations excessive vibration and strain. * Motor has to be new and furnished with a stainless steel name plate with data of the serial no., speed, Kw, input voltage, full load, Hz, power etc.) and motor must be at least 1.25 larger than Pump brake horse power or 1.15 larger than the total Input Horsepower to the Electrical Motor. * All works from supplying, installing connecting running and testing are under the contractor's expenses. * All works must be according to the Palestinian standards and engineer’s instructions and the specification and drawings. * The price also includes any missing works not mentioned to execute this work. * The contractor must submit the motor specifications, certificate of origin, catalogues and on site testing report which shows that the motor is matching with the manufacturer specifications. * The booster pump shall be capable to run at on/off without electro-mechanical problems. * The turbine and motor torque design should be duty inverter at speed range the design torque values between 1:10   The price includes supplying and installing all required flanges, coupling, 6” flexible joint, reducers, bolts, spacers, sleeves, nuts, etc. to connect between the turbine outlet, and pumping pipes and fittings. The price also includes casting reinforced concrete foundation and to hold the motor and turbine. The price includes supply and install suitable size reinforced concrete foundation (2-mesh steel bars 10 mm diameter @ 15 cm in all directions). The price for this item includes all works to accomplish fittings’ installations as 6" gate vales, 6" water meters, 6" dressers, 6" stariners, 6" checkvalve, 6" flexible joint, 2 " PRV, 2 " air valve..etc.   * The size of the concrete foundation must be suitable to hold the booster pump and motor. * The contractor shall do in site testing the booster in accordance with the performance curve and submitting the test report. Before installing any new materials, the contractor must get the initial records for the proposed balancing reservoir including: the reservoir supply capacity in m3/hr and suction. , water level inside the (dynamic and static). * The booster electric motor of suitable power must be inverter duty, 3000 rpm, and basic run as 50 Hz, 380/400 volts and motor efficiency not less than 0.9 with 1.15 service factor (squirrel cage induction motor). The motor has to be inverter duty as 10:1 (6-60 Hertz) Speed Range Constant Torque voltage 220/380-420. The motor shall be of standard construction and suitable high thrust bearing to carry the loads of the rotating radial thrust, equipped with weather protection type-1 standard, insulation class H complete thermal protection unit, complete current overload unit. * The electrical motor must be supplied with RTD (PT 100-3/4 cables) temperature protection. The type of motor connection must be suitable to present the motor temperature digitally inside the control panel. The price of this item includes all costs of materials and works to install and test the RTD control device.   The price for the booster pump includes testing the pump and matching with factory performance curve. The price includes all works and materials to connect the booster pump to the balance tank and install inlet/outlet connections to the existing well pipe at pump site. The price includes all works to connect the reservoir inlet connection at the existing 8” outlet of the well. Moreover; it includes the connection of the booster inlet to the outlet balance tank. The price for this item includes the supply and installation of all fittings of all sizes related to the installation of booster pump accessories as: 1” 2”, 3”, 4”, 6” steel pipes, and all 45 or 90 elbows, Tees, adapters, reducers, 6” flexible joints, couplings, bolts, flanges, couplings; meanwhile to execute these main connections as follows: a- connect the balance tank to the well source supply pipe b- connect the balance tank outlet to the booster transmission line. c- Supply and install 3”, 4”, 6” steel pipes to connect the booster with the balance tank, pressure reducing outlet and the balance tank cleaning pipe and tank overflow to the adjacent disposal site. The price includes all works and any type of fittings to install the booster pump and connect to the balance tank including float valve, transparent pipes indicator 1", steel pipes 1" with globe valve.  .  The price for this item includes all work and materials to build a sun and rain protection concrete/ steel cover for the booster pump as follows: Room net Dimensions: 5 m\*5 m \*3.3 m (see the attached drawing)   * Prepare the room foundation including excavation in all types of rocks and soils. The foundation must be leveled on solid base and sub base to the anticipated level decided by the supervisor engineer (the room concrete floor level must be 50 cm below the ground level of the balance tank). This includes leveling and laying a base course layer (60 m2) at the booster pump site of grade A- minimum thickness after compaction (95%) is 15 cm. * Supply and casting reinforced concrete base over the entire room dimension (5\*5 m) and thickness 20 cm B-300 and reinforced with a bottom mesh of steel bars 12 mm diameters in both directions at 20 cm, and top layer mesh of steel bars 10 mm diameters in both directions at 20 cm. The price include constructing a corridor of reinforced concrete (mesh 10 mm steel at 20 cm in both directions) concrete 10 cm thinness B-250 width 1 meter around the pumping room and the balance tank * Supply and casting concrete beam 40x20 cm of reinforced concrete. The tie beam is made of concrete B300, 4 bars diameter 12 mm and stirrups 5 diameter 8mm and build overall the room floor from the 4-sides * Supply and Install inside the concrete beams 6- galvanized steel box 10x10 cm x 4 mm thickness and height of 3.3 m above the ground from side and 3 meters height from the side to maintain enough slope for rainwater collector. The steel boxes must be fixed vertically inside the concrete tie beams before casting using steel plate and bolts over room floor. The 6-steel boxes are sandwiched with concrete B-300 and tied to the hollow concrete block walls. * Supply and Install five steel boxes galvanized on top of column beams. The steel box 10\*10 cm \* 4 mm thickness over the entire room side and at the middle columns * Supply and install galvanized steel boxes 6x4 cm\*3 mm each (80- cm depend on sheet dimensions) and along the entire room long side so as to fix the corrugated steel sheets. The bracing steel boxes 6x4 cm\*3 mm are smoothly finished to the level of the upper steel boxes * Supply and install corrugated galvanized steel sheets 1 mm thickness to cover the room roof. The sheets must be larger the room at least 30 cm in all directions and with steel rain water collector and drain 4” pvc pipes * Supply and install all materials to build on top of the concrete beams and up to the level below the upper steel boxes using hollow concrete block 40\*20\*20 cm over the entire room sides leaving door opening for the room and window (see the drawing). Adding on top of concrete block a reinforced concrete tie beam on the four sides and finished smooth to the level of upper steel columns. The inside and outside roof must be tightly closed –no opening. * Supply and install steel guard for the room window 2\*1.2 m using galvanized steel profile frame 4\*4 cm, thickness 3 mm and inside frame using galvanized steel bars 16 mm each 8 cm. * Supply and install aluminum 7000 window 2\*1.2 m fixed from all side on reinforced concrete frame 20\*20 cm width two leaves in addition to a third leave as fine mesh for ventilation. * Supplying and executing a steel door and frame with dimension 160X220 cm and the door is fixed from all side on reinforced concrete frame 20 cm width. The door sheets from inside and outside (2 mm thickness) is fixed over box beams each of 8\*4\*cm and 2.5 mm thickness every 40 cm height. The door is composed of 2 main parts. The outside frame is made of galvanized steel frame not less than 23 cm and 3 mm thickness fixed to reinforced concrete sides 20\*20\*over the whole door sides. The price includes all materials needed to complete the work such as, double joint locks and main lock; oil base face and hummarite finish paints. * The price for this item includes painting two faces for all steel work one as primer coat and the second oil base and the color according to the supervisor engineer instructions. * Supplying and installing all materials needed such as cement, sand, fine aggregate, water, ect. For executing the internal plastering (3 coats). The first coat is sand and cement 1:1, the second coat is mix of cement, fine sand and crushed powder limestone 1:2:3 , and finally a soft coat * The price include supplying and installing all materials needed such as cement, sand, fine aggregate, water, ect. For executing the external plastering (4 coats, the last coat should be white shipreez) with 2 coats of Super creel and super Gameesh paint above texture according to the standard specifications and instructions of supervisor engineer. | 2.3 |
| 150 | 150 | | 1 | | piece | | **Flow Control switch:** Supplying and installing an electrical flow switch suitable for 6" pipes -25 bar, powered by a 24 v-dc power source. Price includes all cables required to connect it with the control panel. | 3.3 |
| 200 | 100 | | 2 | | piece | | **Pressure Control switch** Supply and install two pressure switches 1-25 bar. Price includes all cables required to connect it with the control panel. | 4.3 |
| 300 | 300 | | 1 | | Num. | | **Gate valve**: Supply and assemble gate valve, 3" complete, 16 bar. Price includes excavation, cutting, welding, adding screws, bolts and accessories that are needed to assemble the valve. The valves could be installed anywhere within the project area and according to specifications mentioned in Annex 1, S2 , as shown pumping layout view. | 5.3 |
| 50 | 50 | | 1 | | Num. | | **Dresser conical record:** Supply and assemble 2" dresser complete. Price includes rods and screws, bolts, excavation, cutting, welding, and adding accessories that are needed to assemble the dresser with NP 25 bar, as shown pumping layout view. | 6.3 |
|  |  | |  | |  | | **Relief valve:** Supply and install a 3 inches pressure relief valve, 25 bar, complete, The price includes excavation, cutting, welding, adding 2” record, screws, bolts and accessories that are needed to assemble the valve and according to specifications Annex 1/ S7 |  |
|  |  | |  | |  | | Supplying and installing of **6" Strainer** of cast iron body for 16 bar working pressure complete with companion flanges, gaskets, bolts and nuts. The general specifications are according to Annex S6. The installation works includes all costs of excavations, cutting, shaping, welding, paintings, either on new or old pipe lines. |  |
|  |  | |  | |  | | Supply and install in the site of work **(2") valve** for 16 Bar (W.P) local or international equivalent. The installation works includes all costs of excavations, cutting, shaping, welding, paintings, either on new or old pipe lines. |  |
|  |  | |  | |  | | Supply and install in the site of work **2 inches** (Steel **compound air valve-double orifice)** complete As ARI, 25 bar or local and international equivalent and according to general specifications mentioned in Annex 1, S3. The price includes the installation of 2" ball valve and 2” black coupling welded on the steel pipes. The installation works includes all costs of excavations, cutting, shaping, welding, paintings, either on new or old pipe lines. |  |
|  |  | |  | |  | | **Pressure Surge Tank:**  Supplying and installing of a pressure Surge Tank 25 bar size (500 liter). The contractor shall supply and install all the pipes and fittings to connect with outlet main 6 " pipes of the pump and should be according to specifications. The price include, complete instrumentation of the pressure Tank including all fittings and steel pipes and fittings. The price includes supplying and installing all necessary materials and works to connect to the pressure switches and casting a suitable reinforced foundation under Tank, and above the pump ground level, as shown pumping layout view |  |
|  |  | |  | |  | | Supply and install **6 " Woltman water meter** complete with flanges, gaskets, bolts and nuts for 16 Bar (W.P)- Epoxy coated. The measuring unit should be removable type without removing the body from the pipe (interchangeable type). The price includes all necessary works and costs for installing by **welding** steel coupling and nipples and all necessary accessories for the farms’ openings to irrigate the farms and to install future branches across these pipes. The water meter should be according to ISO 4064 or equivalent as S5 |  |
|  |  | |  | |  | | Supply and install in the site of work **6" cast iron wedge gate valve** for 25 Bar working pressure (W.P).-enamel coated. Complete with flanges, gaskets, bolts and nuts, (None rising stem) with hand wheel for each valve. All in accordance with ISO Standard No. 5996 or local and international equivalent. The general specifications are according to Annex S2. The installation works includes all costs of excavations, cutting, shaping, welding, paintings, either on new or old pipe lines. |  |
|  |  | |  | |  | | Ditto……………………6" gate valve .but 16 Bar working pressure |  |
|  |  | |  | |  | | Supply and install in the site of work **(6") cast iron swing check** valve, complete with complete with counter weight, flanges, gaskets, bolts and nuts, for 25 Bar working pressure) -Epoxy coated with extended arm and lid (cover) in accordance with BS. No. 5153 or local and international equivalent and according to general specifications mentioned in Annex 1, S1. The installation works includes all costs of excavations, cutting, shaping, welding, |  |
|  |  | |  | |  | | Supply to the site of work **(6") Dresser** for (25) Bar working pressure) complete (flanges, gaskets, nuts, bolts etc.) with two tie rods 600 mm long, diameter of 5/8" and 4 ears for each dresser. |  |
|  |  | |  | |  | | Ditto……………………6" dresser but 16 Bar working pressure |  |
|  | **Total of supplying and installing materials (zero vat) of the booster pump and its fittings** | | | | | | | |

**4)-200 m3 steel reservoir**

| **Item No.** | Description works | unit | QTY | Unit  Price $ | Total  Price $ |
| --- | --- | --- | --- | --- | --- |
| 4.1 | Supply and Install metallic corrugated galvanized steel irrigation balance reservoir with a volume capacity of **200 m3** of water at well site in Kufr Thulth-Tulkarem Governorate.  **Total Height** of the reservoir after assembly of the steel sheets is 330 cm and the height level of water will be no more than 300cm. The wall sheets are metallic corrugated galvanized steel thickness of not less than 1.5 mm  The outer Radius of the reservoir is 4.4 m.  Total Height of the reservoir after assembly of the steel sheets is 3.30 m. The lining sheet is finished by smooth finish using polyester fabric and avoiding punching or scratching of the sheets. Therefore, the upper sheets edges nuts be covered with PE cover at edge sheets.  The whole reservoir should be removable (simple assembly and disassembly)  The fabric lining size must be enough to cover the whole tank area and extra length not less than 20 cm below the tank top level; the extra length must cover all tank wall form all sides as shown in the attached drawings and at the same level. The liner covers is fixed to the tank frame using ropes, (metallic cables not less than 4 mm thickness the cables to be fixed on sheet wall and bolts between two nuts and washers), the plastic ties to insure tightens and connection. The cover is fixed using metal rings and maximum spacing between rings does not exceed 50 cm and plastic tie between each two ties. The rings must be tightened to insure maximum tension with NO sagging in the cover.    All pipes to be fixed on the supporting 1” pipes and welded to the 4” pipes (filled with concrete). The 1” pipes to be as galvanized ring 3.25 mm thickness as shown in the drawings.  The price includes the supply and installation of all piping for inlet, outlet, and washout and over flow as shown in the attached drawings. The pipes must be made of 6” galvanized steel pipe thickness not less than 3.96 mm lined from inside with cement mortar and lined from outside with PE layer 1.8 mm thicknesses. The reinforced concrete ring includes the supply and fix of 4” (According to drawing) galvanized pipes with thickness not less than **3.96** mm in circumference of the tank filled with concrete. The distance between each two pipes is **2.00** m (center-to-center of each two pipes) and the height of the pipes is the same as the height **330 cm** of the tank plus the slope height which ranges between zero and 20 cm). The 4” pipes must be filled with concrete inside to the top. And to be connected from the above busing galvanized RHS profile 8\*4cm \*3 mm thickness and the upper middle by ring of 1” galvanized steel pipe 3.25 mm as show in the attached drawings.  The pipe system inside the tank must be equipped with all necessary materials to insure tight joints for any small water leakages. The 6” steel pipe inlet lined from inside with cement mortar and epoxy painted or, PE from outside the thickness of the steel 3.96mm. The supply and installation shall include but not be necessary limited to:   * The price for this item includes the preparation and Leveling of foundation; the foundation shall have a diameter of at least **two meters larger than the diameter of the reservoir**. The price of this item includes all works necessary to transport all materials to construct the reservoir. This includes excavation works (rock cutting to reach level base). Excavation is done in all types of rock and soil. Backfilling includes selected materials as grade B base course in layers and maintain 98% sub grade of the tank. To maintain the reservoir sides being leveled, the price includes building a reinforced concrete B-300 beam around the all sides over area 6.5x6.5 meter and section dimension (60X20 cm with 6 **Ø12 mm** stirrups **Ø8 mm** each 20 cm) or stone walls which is made of (boulders hard stone dimensions not less than 80\*50\*40cm. The rock dimension 80 cm is toward reservoir center, and 50 cm wide, and 40 cm thickness) and act as a retaining wall. It is built on leveled reinforced concrete base (60 cm wide, 15 cm thickness along stone wall base and reinforced by steel mesh Ø12mm. The height of the wall is up-to reservoir finish ground level. This is to obtain fully stable reservoir base. The price includes clean the site and transport the existing the excavated and unwanted materials away from the site to accepted location by Noor ShamsMunicipality. * The height of the tank ground level must be least at 50 cm higher than booster pump ground floor level. * Supply and lay 2-base course layers each should not be less than 15 cm thickness after compaction; the overall layer shall be compacted to not less than 30 cm and relative compaction 98% . * Supply and add a sand layer with min. 15 cm thick; this layer shall be installed inside the tank above the base coarse layer. * Fixing of the tank (assembly) including all materials and works that were mentioned or not mentioned in the specifications and must insure stable, level and tight reservoir. * The price for this item includes the supply of materials (all reservoir 6” pipes and fittings show in the attached drawings and where placed on inlet pipe, two outlets pipes, clean and over flow pipes) and according to standard fittings specification for all pipes and fittings. This includes supply and install of all internal and external 6” pipes, and these fittings as follows (#,diam, PN16 all according to Annex 1): **four gate valves diam 6”** , **four dressers diam6**”, **two air valve 2”** with 2” globe valve and couplings, **6” float valve** complete including float ball valve and piping 1”, supply and install 1” transparent water level indicator with 1” globe valve and 1” couplings , **two strainers 6**”, Non **Return Valve 6”, two water meter 6”**, jacks, elbows, Tees, couplings….etc as shown in the attached drawings. The price for this item includes all works as (welding, cutting, shaping, transporting, distribution….etc) to connect the piping system to the reservoir (Inlet & outlet, wash out, over flow) as shown in the attached drawings   The price includes supply and install a reinforced concrete B-300 ring beam (50cm depth\*25cm width) shall be constructed around the tank at the ground level. The outer face of the beam must be fair face finish or by using plaster 3 -faces of plaster (rough, smooth, and shebreez) using standard percentages of plaster materials. The supporting concrete beam reinforcements details are as follows:  Use 10 steel bars, Ø12 mm as shown in the attached drawing  Use stirrups Ø 8mm each 20 cm. over all the beam  Before casting concrete, obtaining the approval of the field supervisor is mandatory. The price includes having 2 concrete samples for compression testing.  The tank shall be equipped with a transparent vertical pipe connected to the outlet to indicate the internal water level and to be properly fixed.  The lining, cover PE materials must be encased from inside with plastic cover sheets over the entire walls to avoid punching of the PE lining and all materials should be suitable for drinking water and to have at least the following specifications:  **Fabric, Type polyester 1100 Dtx, 200 gm/m2**  **Total Weight 740 gm/m2.**  **Breaking strength: 280/260 kg/5cm.**  **Tear strength: 110/100 kg.**  **Adhesion 12 kg/5cm.**  All corrugated sheets shall be fixed vertically without any buckling; no spaces or voids shall be left between the sheets.  The price includes fixing with bolts and nuts of the corrugated galvanized steel sheets of the tank. The overlapping shall not be less than 25 cm in both directions: vertical and horizontal. The bolts spacing shall be two bolts each 5 cm over the entire tank assembly.  **Steel Cover Shed (All According to the attached drawings)**: Supply and install all materials to build a steel shed to cover the tank against light and to achieve complete confinement using steel boxes and frames and covered with corrugated steel sheets 0.5 mm. The tank roof includes door opening 90\*90 cm made of galvanized sheets 2 mm and frame 4\*4 cm \*2 mm and lock. The roof cover includes 4 main footings 60\*60\*50 B-300 reinforced with a mesh of steel diam 10 mm. Supply and Install (S&I) Main RHS box steel Galvanized 10\*10\*cm \*4 mm to be fixed inside the foundations and to the level of tank taking into consideration the differences in height due slope for rain water drainage as show in the drawing. S&I to RHS Galvanized 10\*10\*cm \*4 mm to connect the main supporting columns and end at outer supporting 4” Galvanized pipes. S&I Other RHS boxes 10\*10cm \*4 mm to be installed between the main supporting beams as shown in the attached drawings. S&I RHS boxes 8\*4cm \*2mm over the entire space maximum each 90 cm center to center as shown in the drawing. All welded steel profiles must be painted two faces. The whole RHS boxes to be fixed on the supporting 4” galvanized pipes and RHS ring 8\*4cm \*3mm. S&I corrugated galvanized steel sheets 0.5 mm over the entire reservoir space to the outer edge of the galvanized ring and fixed with bolts to the steel frames and shown in the drawings. The inner supporting frames are fixed in the concrete foundation and extend to the sand level and ends with steel cap steel plate 25\*25 cm \*1 cm thickness. The upper supporting frames start with the same cap/plate and the polyester liner laid on the inner plated and bolted tightly to the upper plate by 8 bolts daim 14 mm. The main supporting farmers to be fixed by welding as rigid connections using standard welding bars and specifications. To avoid punching of inner liner the reservoir must be filled by 30 cm of water height before start welding. The secondary frames are to be fixed on skids before welding.  **The price includes water quantities to fill the tank (200 mcub) to the top level and conduct all necessary test as overflow, closure by the float valve and to carry the leakage test..**  The PHG reserves the right for carrying additional testing for any part of the works included in the contract, during and/ or after the execution of the work. In the event that the results of such tests are not satisfactory and not in conformity with the specifications requirements, the contractor shall bear the costs and any other implications of such tests. | L.S | 1 | 19000 | 19000 |
| **Total of supplying ,installing & transporting of the 200 m3 steel tank excluding vat (zero vat)** | | | | | 19000 |

**Summary of the bill**

|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Price (US $)** |
| **1.** | **Total of supplying and installing pipes and fittings excluding vat (zero vat)** | **135320** |
| **2.** | **Total of supplying, installing & transporting of the 1000 m3 steel tank excluding vat (zero vat)** | **45000** |
| **3.** | **Total of supplying, installing & transporting of the booster pump excluding vat (zero vat)** | **26700** |
| **4.** | **Total of supplying, installing & transporting of the 200 m3 steel tank excluding vat (zero vat)** | **19000** |
| **Total of all works excluding vat (zero vat)** | | **226020** |
| **Final total in words excluding vat (zero vat)** | | |

**Name of company /contractor:**

**Address:**

**Date:**

**Signature and stamp:**

نموذج امر مباشرة

**التاريخ :.....................**

**إلى : .................................**

**من : مجموعة الهيدرولوجيين الفلسطينيين**

**الموضوع : امر مباشرة بالعمل**

بالاستناد للاتفاقية الموقعة بينكم وبين الشركة الاسلامية الفلسطينية للتنميةبخصوص عطاء رقم **توريد وتنفيذ 5000 متر أنابيب زراعية وخزانات معدنية ومحطة ضخ ووصلات زراعية لموقع نور شمس في محافظة طولكرم وذلك** ضمن **برنامج** ا**لادارة المستدامة والوصول الشامل لمصادر الارض والمياه)بيدر)**, ووفقاً للعطاء المقدم من قبلكم والموافق عليه من قبل لجنة العطاءات، وبالتقيد التام بكافة المواصفات الفنية وجداول الكميات، فإننا نصدر إليكم أمر المباشرة ببدء العمل في المواقع )...................) ابتداء من تاريخ ..................... وانهاء العمل بالمواقع المتفق عليها خلال (................) أيام تقويمية ابتداءً من التاريخ المذكور أعلاه.

**وتفضلوا بقبول فائق الاحترام والتقدير.**

**مجموعة الهيدرولوجيين الفلسطينيين**

نموذج اتفاقية

**فريق أول:الشركة الاسلامية الفلسطينية للتنميةممثلة** **بالمدير العام الدكتور عبد الرحمن التميمي**

**فريق ثاني:** ............................................المحترمين

حيث أن الفريق الأول يقوم بتنفيذ برنامج الادارة المستدامة والوصول الشامل لمصادر الارض والمياه)بيدر),وضمن إطار هذا البرنامج يرغب في  **توريد وتنفيذ 5000 متر أنابيب زراعية وخزانات معدنية ومحطة ضخ ووصلات زراعية لموقع نور شمس في محافظة طولكرم . وذلك** بموجب مواصفات فنية محددة عرضها بتفصيل بعطاء معلن للموردين.

* وحيث أن الفريق الثاني يصرح بأنه شركة/مورد مرخص/ة بموجب شهادة تسجيل رسمية تحمل تسجيل ضرائبي رقم ........................
* وحيث أن الفريق الثاني يصرح بأنه يمتلك الخبرات الفنية والمقدرة المالية اللازمة لتنفيذ الاعمال الواردة في وثائق العطاء للمشروع المذكور.
* وحيث أن الفريق الثاني قد تقدم بعرض لتنفيذ هذا العطاء ومرفق لهذه الاتفاقية ويشكل جزءا لا يتجزءا منها.
* وحيث أن الفريق الأول قد أرسى العطاء على الفريق الثاني بموجب قرار الإحالة الصادر عن لجنة عطاءات المشروع المذكور بتاريخ................وبمبلغ إجمالي قدره ..............................دولارا امريكيا شامل الضريبة الصفرية.

فقد اتفق الفريقان على ما يلي من الشروط و البنود:

1. تعتبر مقدمة هذه الاتفاقية جزءا لا يتجزأ منها.
2. تعتبر كافة المرفقات والملحقات بهذه الاتفاقية جزءا لا يتجزأ منها.
3. يتعهد الفريق الثاني بتنفيذ الاعمال الواردة في وثائق العطاء للمشروع المذكور وفقا للمواصفات الفنية المدرجة في دفتر العطاء الذي قدم عرضه استناداً له.
4. يقر الفريق الثاني بأنه قرأ وتفهم كافة وثائق العطاء المرفقة لهذه الاتفاقية وانه قام بالتوقيع عليها تأكيداً منه بذلك، و يتعهد بالتقيد التام بكافة ما ورد فيها.
5. يقر الفريق الثاني بأنه ملتزم بكل ما جاء في إجابته على دعوة العطاء المرفقة لهذه الاتفاقية.
6. يتعهد الفريق الثاني بالالتزام والتقيد التام بكافة البنود والمواصفات التي وردت في عرضه لتنفيذ العطاء.
7. يتعهد الفريق الثاني بإحضار المواد الواردة في العطاء إلى المواقع التي يحددها الفريق الأول وعلى نفقته الخاصة وتحت مسؤوليته المطلقة
8. يتعهد الفريق الثاني بعدم المباشرة ببدء العمل في اعمال التوريد والتنفيذ إلا بعد الحصول على موافقة خطية من الفريق الأول واستلام أمر المباشرة بالعمل ، وخلافا لذلك يقوم الفريق الثاني بإزالة كل ما تم انجازه إذا ما طلب منه ذلك وعلى نفقته الخاصة.
9. الفريق الثاني مسئول مسؤولية مطلقة عن كافة شروط السلامة العامة والأمان سواء للعاملين معه أو المتواجدين في موقع عمل الاليات. ولا يحق له مطالبة الفريق الأول بأي تعويضات أو أضرار من اعمال التوريد والتنفيذ لبنود المشروع.
10. اتفق الفريقان على أن تكون القيمة المالية لاتفاقية ............................دولارا امريكيا شاملة للضريبة الصفرية وشاملة للمواد الضرورية المستخدمة وأجرة العمل والمعدات والنقل وغيرها من أعمال الإعداد والتحضير.
11. الفريق الثاني مسئول مسؤولية مطلقة عن جودة وسلامة العمل ومطابقتها للمواصفات الفنية والكميات المدرجة في العطاء المذكور، ويتحمل كافة التبعات المالية والقانونية لأي خلل بما في ذلك إزالة ................ إذا اقتضى ألأمر وتعويض الضرر والعطل الناشئ من ذلك.
12. يعتبر استلام أي من مندوبين الفريق الأول.......................بمثابة إقرار أولي، ولا يعني ذلك بأي حال من الأحوال إقرارا بالموافقة على سلامة وصحة الكميات والمواصفات، طالما لم يدعم ذلك ويقترن بتوقيع المشرف على المشروع والمعين من قبل الفريق الأول.
13. يتعهد الفريق الثاني بإنهاء كافة الأعمال خلال فترة**............ يوم** تقويميا بدءا من تاريخ صدور واستلام أمر المباشرة بالتوريد.
14. يتعهد الفريق الثاني بوضع المواد التي يتم استلامها من قبل لجنة الفحص والاستلام المنتدبة من قبل الفريق الأول في مكان واحد قبل نقلها لمواقع التوريد المتفق عليها
15. يتعهد الفريق الثاني بإزالة المواد التي يتم رفضها من قبل لجنة الفحص والاستلام لعدم مطابقتها للمواصفات. وعلى المورد توفير بدائل لها وتوافق عليها لجنة الفحص والاستلام خلال مدة ستة أيام.
16. في حال عدم التقيد بالتنفيذ أو في حال التأخير في التوريد يحق للفريق الأول سحب قيمة كفالة العطاء مباشرة ودون حاجة للرجوع للفريق الثاني أو موافقته على ذلك.
17. يقوم الفريق الأول بدفع التزاماته المالية للفريق الثاني بموجب هذه الاتفاقية على النحو التالي:
18. تصرف الدفعات المستحقة من قبل الفريق الأول كما هو منصوص عليها بالعطاء، وبالتحديد بعد شهر كحد أقصى من تاريخ تقديم المورد للمطالبة المالية وبعد موافقة الهيدرولوجيين وتوفر النقود في حساب المؤسسة الخاصة بالمشروع مدعمة بالوثائق التالية:
19. بيان تفصيلي للفاتورة يوضح المواد الموردة والمنجزة وكمياتها وأسعارها ومبالغها الإجمالية.
20. كتاب الاستلام النهائي الموقع من لجنة الاستلام يقر بمطابقة المواد الموردة والأعمال المنجزة للمواصفات الفنية المنصوص عليها بالعطاء.
21. صورة عن اتفاقية العمل الموقعة بين الفريقين.
22. أي نقص في هذه الوثائق أو في التوقيعات او اية اوراق يطلبها مدير المشروع كمتطلب للمشروع يمنح الفريق الأول الحق في رفضها وإعادتها للشركة المنفذة لإكمالها دون اعتبار ذلك تأخيرا من جانبه بصرف الدفعة.
23. يحق للفريق الأول زيادة بنود العطاء أو تقليصها بنفس الأسعار حتى نسبة25% من قيمة العطاء وبعد ذلك يتم زيادة البنود أو تقليصها فقط بموافقة الفريقين.
24. يحق للفريق الأول إجراء اختبارات فنية على المواد التي تم توريدها وترفض أية مواد غير مطابقة للمواصفات و الفحوصات وتكون على حساب الفريق الثاني.
25. يحال أي خلاف بموجب هذه الاتفاقية للتحكيم الإلزامي أولا.

و بناءا على ما ذكر أعلاه فقد جرى توقيع هذه الاتفاقية وإبرامها هذا اليوم \_\_\_\_\_\_\_\_\_\_\_\_ الموافق \_\_\_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| **فريق أول** | **فريق ثاني** |
| الاسم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | الاسم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| التوقيع: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | التوقيع: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| الختم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | الختم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |
| --- | --- |
| **شاهد أول** | **شاهد ثان** |
| الاسم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | الاسم: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| التوقيع: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | التوقيع: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Annex 1: Fittings Materials Specifications**

**S1: Check valves**

1. Body: Cast Iron
2. Disc: Cast Iron
3. Cover: Cast Iron
4. Seat Holder Cast: Iron
5. Body Seat Ring: Bronze ASTM B62
6. Disc Seat Ring: Rubber (BUNA-N) ASTM D 2000 AA 7008
7. Hinge Pin: Stainless Steel
8. Plug: Malleable Iron
9. Cover: Bolt & Nut: Steel
10. Seat Holder Bolt: Stainless Steel
11. Cover Gasket: Rubber (BUNA-N)
12. Coating: fusion bonded epoxy inside and outside

**S2: Gate valves none rising stem:**

1. Body: Cast Iron
2. Bonnet: Cast Iron
3. Packing Box: Cast Iron
4. Disc Cast: Iron
5. Hand Wheel: Cast Iron
6. Body Seat Ring: Bronze
7. Disc Seat Ring: Bronze
8. Gland Cast: Iron
9. Stem Nut: Bronze
10. Stem Bronze
11. Bonnet Gasket: steel
12. Packing Box Gasket: steel
13. Bonnet Bolt & Nut: Steel
14. Gland Stud & Nut: Steel
15. Packing Box Stud & Nut: Steel
16. Top Nut: Steel
17. Washer: Steel
18. Packing: Graphite Fiber Commercial
19. Operating Nut: Cast Iron A 126 Class B
20. Coating: Electro statically applied epoxy inside and outside,

**S3: Combination Air Valve**

1. Body: PN21 Sphero Nodular ASTM-536 60-40-18
2. Rolling Seal: Rubber E.P.D.M
3. Clamping Stem: Reinforced Nylon
4. Float: Foamed Polypropylene
5. Base: Brass ASTM B-124
6. O-Ring: Buna-N
7. Cover : PN21 Cast iron ASTM A-48 CL-35B
8. Nozzle Seat: Bronze ASTM B-62 B-271 C83600
9. Nozzle Seal: Rubber E.P.D.M
10. O-Ring: Buna-N
11. Bolt and Nut: Galvanized Steel, Chromate Plated
12. Float: Stainless Steel 304L
13. Body: PN21 Cast iron ASTM A-48 CL-35B
14. Sleeve: Reinforced Nylon
15. Threaded Outlet: Brass
16. Coating: fusion bonded epoxy inside and outside

**S4: Butterfly Valves: (GEAR)**

1. Stem: Stainless steel
2. Body: Cast iron
3. Bushing: Brass
4. O ring: EPDM
5. Bushing (spacer): Polymeric
6. Disc: Stainless steel
7. Liner: EPDM
8. Washer: Bronze
9. Retaining ring: Spring steel
10. Plug: Plastic
11. Coating: Fusion bonded epoxy inside and outside

**S5: Water meter specification and materials.**

1. Working pressure 16 or 25 bars as required.
2. Max. temperature 60 C
3. Body: cast iron
4. Coating: epoxy
5. Connection: Flanged ends for 4” and above diameters or records 3” and less diameters

**S6: Strainers Specifications:**

1. Body: cast iron ASTM 126 class B
2. Cover: cast iron ASTM 126 class B
3. Screen: stainless steel
4. Gasket: Buna -N
5. Plug: steel
6. Bolts: steel
7. Coating: fusion bonded epoxy inside and outside

**S7: Control Valves specifications (float valves and pressure reducing valves)**

1. Connection: flanged
2. Water temperature up to 60 C
3. Working pressure 16 bars
4. Valve body and cover ductile iron (ASTM A-536)
5. Valve internals: stainless steel and bronze
6. Control trim: brass
7. Elastomers: Buna-N
8. Coating: fusion bonded epoxy

**S8a: the price per meter length includes all of the following.** Spreading along the route of pipe lines, welding two passes of the steel pipes including welding of readymade elbows (the unit price per meter length is valid for all the 6”, 4”,3” pipes and include all welding costs between each two pipes, or between pipes and elbows, or pipes and tees….etc. The price also includes the shaping and welding of elbows on site so as the pipe line will be always in the center of the route. The price include all welding of Tees, nipples and couplings for branches as 4”, 3”, 2″&1″, ¾” with plug for the future customers and as required by the supervisor engineer. Any pipes irregularities or damages must be repaired. Installation works are not limited to the routes specified in the attached drawing, but new route lines are expected as well and without variation in the technical specification and quality of works and unit prices in the whole tender items. No additional prices for the unit price what so ever the site of work is rough or far from the dirt roads. The distribution and welding works must be carried out in all intended pipes routes without variation in unit prices. Each Main pipe route line must be connected to the source well. The welding, cutting and shaping are including in the unit price (per meter length), and the welding costs include shaping and cutting without using elbows in case the outside angle is less than 22 degrees or the internal angle more than 168 degrees. The price of welding all types of elbows, tees, and other fittings are included in the unit price of the steel pipes and no payments for welding all these connections.

**S8b: Painting works include** adding two faces (red oxide as priming paint and zinc oxide base oil paint for finish). The pipe surface must be painted with two coats from all sides, particularly lower part to the ground. Therefore, the pipe must hold on supports above the ground minimum 30 cms, and then released to ground down after the paint was dry. Prepare the surface and stir the paint before use or mix using a power agitator. Before applying paint, a thinner liquid has to be added to the pipes surface to clean away oil and grease, use a detergent to remove excess dirt and contaminants. Remove the metallic debris such as mill scale and rust using disc sanders, sandpaper or wire brushes which ensures an adhesive surface.

**S9: Irrigation Steel Pipes Welded Black Steel Pipes,** [**ASTM A53**](http://www.techstreet.com/cgi-bin/detail?product_id=911886) **Or as API5L:**

**A53 Type F**, which is longitudinally furnace butt welded or continuous welded (Grade A only), **A53 Type E**, which is longitudinally [electric resistance welded](http://en.wikipedia.org/wiki/Seam_welding) (Grades A)

**S10: Road crossing for 6”, 4” and 3” pipes**. The price per unit length for any pipe diameter in this tender includes all costs of excavation (80\*50 cm) and basecourse backfill 98% relative compaction and where along roads and road crosisings as shown in the drawings. This includes all excavation works necessary for making pipes trenches across the whole road width (whatever is the road width). The width of trench should be not less than 50 cm plus the pipe diameter. The total trench depth should be not less than 70 cm plus the pipe diameter. The backfill materials must include soft back fill as follows: fine aggregates 2-3 mm diameters (symismya) below 10 cm below the pipe bottom plus pipe diameter and 10 cm above the pipe top crown (total soft backfill thickness inside the trench equal 20 cm plus the pipe diameter). The final backfill up to the original ground level must of compacted base course grade B.

The cable is **flat with a light blue outer sheath**, drinkable conductors for permanent submersion in potable water, to respective depths and up –to 600 meters. It is water resistance tested according to the European standard EN 505825-2-21 (AD8 condition complete submersion in water) and meets the requirements of BS 6920, and IEC 60228 covering the suitability of non-metallic materials and products for use in contact with water. The **EPR (Ethylene Propylene Rubber)** insulation and Elastomeric Cross-linked outer sheath should provide a robust and **water-tight** barrier.

The voltage rating is **0.6/1kV** and a temperature rating of -25oC to +90oC. It is suitable for use in water of a maximum temperature of 80oC

the conductor main construction properties are as follows:

* **Class 5** (Flexible Conductor) fine stranded tinned pure Copper
* Voltage rating: (0.6/1kv) 600 V between the conductor and earth, and 1000 V rms between adjacent conductors.
* Inner Insulation: **EPR** (Ethylene Propylene Rubber)
* **Outer sheath/ Jacket**: Elastomeric Cross-linked compound including filler materials

Conductors sizes for the two cable each one size **3x95** (1FL, 3GI3 quality insulation)+ **1x50 mm2** . The price for this item includes the supply and install of electric conductor (PT cables and connections) between th

**A1: Ready Mix Concrete**

a- Standard Specification for Ready-Mixed Concrete :ASTM C94/C94M-03

b- Testing Hardened Concrete Compressive strength: BS EN 12390-4

**A2: Steel Bars**

1. Standard Specification for reinforcement Steel Bars. ASTM 615/ Grade 60
2. Specification for mild steel. BS 1722-9

1. سوف يدخل الكفيل (المصرف) مبلغا يمثل نسبة مئوية من قيمة العقد المحددة في العقد والمحكومة إما بعملة (عملات) العقد أو بعملة حرة سهلة التحويل مقبولة لدى صاحب العمل. [↑](#footnote-ref-1)
2. أدخل التاريخ لثمانية وعشرين يوما بعد تاريخ الانتهاء المتوقع. على صاحب العمل أن يعلم بأنه في حال تمديد مدة انتهاء العقد، سيحتاج صاحب العمل إلى طلب تمديد لهذا الضمان من الكفيل. يجب أن يكون هذا الطلب خطيا وقبل تاريخ الانتهاء المنصوص عليه في الضمان. في إعداد هذا الضمان، قد يرى صاحب العمل إضافة النص التالي إلى النموذج، في نهاية الفقرة قبل الأخيرة: "يوافق الكفيل على تمديد هذا الضمان لمرة واحدة ولفترة لا تتعدى [ستة أشهر] [سنة واحدة]، ردا على طلب صاحب العمل الخطي لمثل هذا التمديد، على أن يقدم مثل هذا الطلب إلى الكفيل قبل انتهاء هذا الضمان." [↑](#footnote-ref-2)