



## المملكة العربية السعودية وزارة الصحة مكتب تحقيق الرؤية

دعوة عامة لتأهيل المقاولين لمشروع نظام أرشفة الصور الطبية وتكامل البيانات التقارير و المواعيد مع تبادلها لعدد من التجمعات الصحية الموجة الأولى بوزارة الصحة

التاريخ: ۲۲ /٥/۸۷ م





# دعوة تأهيل مقاولين – عقد نظام أرشفة الصور الطبية وتكامل البيانات مع تبادلها وكتابة التقارير عن بعد لعدد من التجمعات الصحية-الموجه الاولى بوزارة الصحة

يدعوكم برنامج الصحة الالكترونية إلى المشاركة في برنامج تأهيل المقاولين المسبق تمهيداً لدعوتكم لتقديم عروضكم لتزويد المركز بخدمات نظام أرشفة الصور الطبية وتكامل البيانات مع تبادلها وكتابة التقارير عن بعد لعدد من التجمعات الصحية بوزارة الصحة، ضمن أهداف ومبادرات برنامج التحول الوطني وفي إطار المنافسة العامة.

في حال رغبتكم في المشاركة في برنامج تأهيل المقاولين والمشاركة في المناقصة التي سيتم طرحها لاحقا، المرجو اتباع الخطوات اللاحق ذكرها (المتطلبات) في الملحق الثالث من هذه الدعوة.

المرجو قراءة هذا الإعلان وملحقاته بحرص والتأكد من فهمه جيداً مع مراعاة التقيد بتاريخ التسليم النهائي.

إن القصور وعدم استيفاء وتسليم جميع المتطلبات في موعد التسليم النهائي او قبله يعد سببا في عدم التأهل.

يحق برنامج الصحة الالكترونية قبول أو رفض أي تسليم وفقا لما تراه مناسباً.

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٤	نبذة عن رؤية المملكة ٢٠٣٠
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#### نبذة عن رؤية المملكة العربية السعودية ٢٠٣٠

لقد حبا الله المملكة العربية السعودية مقومات جغرافية وحضارية واجتماعية وديموغرافية واقتصادية عديدة، تمكنها من تبوء مكانة رفيعة بين الدول القيادية على مستوى العالم.

ورؤية أي دولة لمستقبلها تنطلق من مكامن القوة فها، وذلك ما انتهجته المملكة عند بناء رؤية ٢٠٣٠ م.

فمكانة المملكة في العالم الإسلامي ستمكنها من أداء دورها الريادي كعمق وسند للأمة العربية والاسلامية، كما ستكون قوتها الاستثمارية المفتاح والمحرك لتنويع اقتصادها وتحقيق استدامته فيما سيمكنها موقعها الاستراتيجي من أن تكون محورا لربط القارات الثلاث.

تعتمد الرؤية على ثلاث محاور رئيسية وهي: اقتصاد حيوي، اقتصاد مزدهر ووطن طموح وهذه المحاور تتكامل وتنسق مع بعضها في سبيل تحقيق اهدافنا وتعظيم الاستفادة من مرتكزات هذه الرؤية.

وقد أطلق ولي العهد صاحب السمو الملكي الأمير محمد بن سلمان بن عبد العزيز اثنا عشر برنامجاً لتحقيق رؤية المملكة العربية السعودية.

- ١. برنامج التحول الوطني
- ٢. برنامج خدمة ضيوف الرحمن
- ٣. برنامج صندوق الاستثمارات العامة
- ٤. برنامج تطوير الصناعة الوطنية والخدمات اللوجستية
  - ٥. برنامج تطوير القطاع المالي
  - ٦. برنامج تحسين نمط الحياة
  - ٧. برنامج ريادة الشركات الوطنية
  - ٨. برنامج الشراكات الاستراتيجية
    - ٩. برنامج الإسكان
    - ١٠. برنامج التخصيص
  - ١١. برنامج تعزيز الشخصية الوطنية





### ۱۲. برنامج تحقيق التوازن المالي نبذة عن برنامج التحول الوطني

أُطلِق برنامج التحوّل الوطني للمساهمة في تحقيق رؤية المملكة العربية السعودية ٢٠٣٠ وإدراك التحديات التي تواجه الجهات الحكومية القائمة على القطاعات الاقتصادية والتنموية في سبيل تحقيقها. وحَدَّدَت الجهات المشاركة في البرنامج أهدافًا استراتيجية لتحقيق أهداف رؤية المملكة العربية السعودية ٢٠٣٠ ومجابهة هذه التحديّات إلى العام ٢٠٢٠ بناءً على مستهدفات مُحددَّة، ومن ثم تحديد المبادرات اللازمة لتحقيق هذه الأهداف بشكل سنوي، وبناء خطط تفصيلية لها، تعتمد على مؤشرات مرحلية لقياس الأداء ومتابعته وانطلق البرنامج في عامه الأول على مستوى ٢٤ جهة حكومية على أن يتم مراجعة الجهات المشاركة في الأعوام المقبلة.

ويهدف البرنامج إلى تطوير العمل الحكومي وتأسيس البنية التحتية اللازمة لتحقيق رؤية المملكة العربية السعودية ٢٠٢٠، واستيعاب طموحاتها ومتطلباتها، وتعتبر مبادرات البرنامج للعام ٢٠١٦ م هي الموجة الأولى لتحقيق ذلك، وسيتم مراجعتها وتقييمها والنظر في كفايتها وأدائها دورياً، والنظر في اعتماد مبادرات إضافية يتم دراستها وتطويرها وفق آلية عمل البرنامج.

والتزاماً بتوجه الرؤية لدعم المرونة في العمل الحكومي، ساهم برنامج التحوُّل الوطني في رفع وتيرة التنسيق والعمل المشترك عبر تحديد بعض الأهداف المشتركة للجهات العامّة بناءً على الأولويات الوطنية، والدفع نحو التخطيط المشترك، ونقل الخبرات بين الجهات العامّة، وإشراك القطاعين الخاص وغير الربحي في عملية تحديد التحديات وابتكار الحلول وأساليب التمويل والتنفيذ، والمساهمة في المتابعة وتقييم الأداء.





#### نبذة عن الصحة الالكترونية و التحول الرقمي

هدف برنامج التحول الوطني في القطاع الصحي لخلق قيمة مضافة في الصحة من خلال تحسين النتائج الصحية، والحصول على الخدمات الصحية وطريقة تقديم الرعاية الصحية للمرضى وتوفير رعاية صحية متكاملة ترتقي لأرفع المعاير الدولية.

وتعتبر الصحة الالكترونية عامل تمكين حيوي للتحول الشامل بما في ذلك التأمين الصحي والتحول المؤسسي والشراكة بين القطاع العام والخاص والذي يهدف الى تحسين كفاءة وفعالية قطاع الرعاية الصحية من خلال تكنولوجيا المعلومات والتحول الرقمي.

والاهداف الاساسية للصحة الالكترونية والتحول الرقمي على النحو التالي:

- انشاء ملف صعي الكتروني موحد يمكن الوصول اليه في أي وقت للمصرح لهم مع رفع نسبة السكان الذين لديهم سجل طبي رقمي موحد من صفر إلى ٧٠٪ بحلول ٢٠٢٠.
  - تمكين إدارة المواعيد من خلال تطبيق الجوال بكل يسر وسهوله.
  - تقديم استشارات ورعاية طبية ممتدة الى المنزل عن طريق الطب الاتصالي وبرامج الرعاية المنزلية.
- تحسين كفاءة العاملين في قطاع الرعاية الصحية (الأطباء، الممرضين وغيرهم) من خلال الحصول على بيانات مرضاهم (على سبيل المثال لا الحصر: صور الاشعة التقارير نتائج المختبر- الخ) بالإضافة الى أدوات تشخيص متطورة وخدمات دعم القرار.
  - ربط جميع الصيدليات التجارية بنظام صرف الأدوية الالكتروني.

وقد تم تقسيم المبادرة الى ١٧ برنامجاً و ٥١ مشروع، ٦ منها تابعة للمجلس الصحي السعودي، ووضع خطة تنفيذية لتنفيذ المشاريع على مراحل مع مراعاة الاولويات واعتمادية المشاريع على بعضها البعض للوصول الى الهدف المطلوب في أن يكون هناك ملف صحى الكتروني موحد لـ ٧٠% من السكان.





### الملحق الثاني نبذه عن الخدمة المطلوبة

٨	عنوان العقد
٨	التاريخ المستهدف لبداية العقد
٨	مدة العقد
٨	موقع العمل
۹ - ۸	وصف عام للخدمة المطلوبة
1 9	وصف تفصيلي للخدمة المطلوبة (إن وجد)





#### ١. عنوان العقد

نظام أرشفة الصور الطبية وتكامل البيانات مع تبادلها وكتابة التقارير عن بعد لعدد من التجمعات الصحية – الموجه الأولى بوزارة الصحة

٢. التاريخ المستهدف لبداية العقد

تاريخ بداية العمل يكون في فترة أسبوعين من استلام التعميد

٣. مدة العقد

تبدأ فترة التشغيل من تاريخ بداية أول فحص لكل مستشفى على حدة يتم عمله على النظام محققا جميع الوظائف الفنية والاكلينيكية الواردة بهذه الكراسة بدون أي نقصان لمدة خمس سنوات يشملها الضمان والدعم الفني وتشغيل جميع البرامج لتشمل طيلة فترة العقد وما يترتب عليها من تدريب وتحديث وتطوير كل من (Hardware/Software/licenses/labor) دون أية تكلفة إضافية على الوزارة.

على ألا تتجاوز فترة التجهيز للتشغيل من توريد وتركيب وتطوير وتطبيق النظام مدة (٢٤) أربعة وعشرون شهراً ميلادياً من تاريخ التعميد كحد أقصى للمستشفيات المذكورة بهذه التجمعات الصحية- الموجة الأولى.

يبدأ التزام المقاول بالمستشفيات التي بها عقود باكس بعد انتهاء هذه العقود مباشرة. وتعتبر الاولوية للمستشفيات التي بها عقود باكس منتهية. وللمقاول الحق بتمديد عقود المقاولين الحاليين بالباطن أو استبدالها مع الالتزام في الحالتين بكل متطلبات هذه الكراسة وآلية العمل بها والفوترة كذلك.

٤. موقع العمل

قائمة المستشفيات المذكورة بالكراسة للتجمعات الصحية - الموجه الأولى





#### ٥. وصف عام للخدمة المطلوبة

ترغب وزارة الصحة ممثلة بمكتب تحقيق الرؤية في تأهيل شركات ارشفة الصور الطبية وتكامل البيانات مع كتابة التقارير عن بعد والمتخصصة في تقديم هذه النوعية من الخدمات حتى يتسنى لمتقدمي التأهيل المشاركة لاحقاً في منافسة نظام أرشفة الصور الطبية وتبادلها لكتابة التقارير عن بعد في التجمعات الصحية المتعددة (Clusters) كما هو موضح بقائمة المستشفيات المستهدفة بالكراسة مع نظام تكامل البيانات (VNA).

وتتطلع وزارة الصحة إلى تطبيق نظام الأرشفة المركزية الإلكترونية ذو مستوى عال وعالمي، بحيث يكون نظاما مركزياً موحداً لجميع انواع الصور الطبية (Medical Multi Media Archive) ويخدم جميع قطاعات وزارة الصحة بالتجمع الصحي الواحد (Cluster) بالمنطقة أو بين التجمعات الصحية (Clusters) أو بين المناطق بحيث يبدا المشروع بصور الأشعة الخاصة بقسم اله (Radiology)، ويهدف هذا المشروع أيضا إلى تنظيم وإدارة الوثائق بشكل المكتروني، وتحويل بياناتها وفهرستها في أنظمة حاسوبية مخصصة لذلك، بحيث يسهل البحث عنها واسترجاعها بيسر وسهولة بداخل المنطقة أو مع المناطق الاخرى.

وستوضح هذه الكراسة نطاق العمل والأهداف، وبذلك تدعو الوزارة كافة الجهات القادرة على تنفيذ هذا المشروع للتقدم بعرض فني يوضح المقدرة الذاتية والفنية والتقنية لتنفيذ هذا المشروع.

وتسعى وزارة الصحة إلى تطبيق نظام الأرشفة المركزية الإلكترونية للصور الطبية، وذلك من أجل تحقيق الأهداف التالية:

- الأرشفة المركزية للصور الطبية (Central PACS).
  - إدارة انظمة الاشعة المركزية (Central RIS).





- نظام كتابة التقارير عن بعد داخل التجمع الصحي او التجمعات الصحية (Cluster or Clusters) بالمنطقة (Tele-Radiology).
- إنشاء مخزن لتكامل البيانات للتجمع الصحي او التجمعات الصحية (Cluster or Clusters) بالمنطقة (VNA).
- نظام أرشفة الصور وإدارة الموجات الصوتية للحوامل (OBY/GYN) بمستشفيات الولادة والاطفال.
- نظام مسح سرطان الثدي للكشف المبكر في بعض مستشفيات التكتلات الصحية مع قراءة النتائج بالطريقة العمياء.
- ربط مستشفيات المشاعر المقدسة بمكة المكرمة وإتاحة الفرصة لجميع المستشفيات بالتجمعات الصحية لإبداء الرأى والمشورة أو كتابة التقارير عن بعد.
- الرجوع الى هذه الصور الطبية في أي وقت ومن أي مكان (جميع انواع الصور الطبية على سبيل المثال الاشعة، القلب، الباثولوجي، الاسنان، العيون، الخ).
  - الرجوع الى تقارير هذه الصور الطبية في أي وقت ومن أي مكان.
- كتابة التقارير للصور الطبية عن بعد (الطب الاتصالى للأشعة) سواء للمنشآت بداخل التجمع الصعي او التجمعات الصحية او المنطقة او خارجها.
- تبادل الصور الطبية بين المنشآت الطبية بالمملكة سواء داخل التجمع الصحي او التجمعات الصحية او المنطقة او خارجها.
- تبادل التقارير الطبية بين المنشآت بالمملكة سواء داخل التجمع الصحي او التجمعات الصحية او المنطقة او خارجها.





- التوسع المستقبلي لتخزين أنواع اخرى من البيانات والصور الطبية والقدرة على الرجوع الها في أي وقت ومن أي مكان.
- تأسيس أدله تقنية لموردي أنظمة الأرشفة الرقمية للعمل على مواءمة انظمتهم وربطها بنظام الأرشفة المركزي، والتكامل في تقديم الخدمات المشتركة.
- إرساء معايير تبادل الصور الطبية وتأسيس البنية التحتية لمنظومة تبادل البيانات الخاصة بأنظمة الأشعة الرقمية وربطها بقناة التكامل للصحة الإلكترونية.
- الربط مع الملف الصعي الإلكتروني الموحد (SeHe) من خلال الويب لاستخدامها في جميع نقاط تقديم الخدمة الصعية.
- يبدا التزام المقاول بالمستشفيات التي بها عقود باكس بعد انتهاء هذه العقود مباشرة. وتعتبر الاولوية للمستشفيات التي بها عقود باكس منتهية. وللمقاول الحق بتمديد عقود المقاولين الحاليين بالباطن او استبدالها مع الالتزام في الحالتين بكل متطلبات هذه الكراسة و آلية العمل بها والفوترة كذلك.

سيكون المورد المعتمد مسؤولاً عن أداء جميع الأنشطة اللازمة لتركيب وتشغيل وتطوير وتحديث وصيانة نظام أرشفة الصور الطبية المركزية لتحقيق اهداف المشروع من جميع الجوانب، حيث يلتزم المورد بالتوريد والتركيب والترقية شاملة (Hardware/Software/LICENSES/LABOUR) لجميع الأنظمة الموجودة (نظام الأرشفة وملحقاته) وربطها بنظام المعلومات الصعي الحالي او المستقبلي للحصول على نظام يعمل بشكل متكامل بحيث يستوفي أهداف وزارة الصحة وخطة الصحة الالكترونية على نحو يتميز بالكفاءة والفعالية من حيث التكاليف والوظائف ووفقاً لما هو موضح في هذه الكراسة.





وتعتزم وزارة الصحة شراء خدمة أرشفة الصور الطبية من المورد حيث يقوم المورد بتأمين جميع الخدمات المذكورة بهذه الكراسة على شكل خدمة يتم محاسبته ودفع قيمتها على كل فحص يتم وصوله إلى

جميع الأنظمة المطلوبة محققا جميع الوظائف بدون أي نقصان. ويكون الدفع مقبولا للفحص شهريا بعد اعتمادها من المستشفى او الموقع المستفيد. ويلتزم المقاول بجميع ما ورد بهذه الكراسة من مواصفات للأنظمة، للتطبيقات، للخادمات، للرخص، للمحطات على الاقل ويطورها إذا لزم ذلك خلال فترة العقد على الا يزيد ذلك في سعر الفحص المعروض طيلة فترة العقد. ثم تنتقل ملكية هذه الاجهزة والمعدات للوزارة بشكل كامل بعد نهاية العقد مع جميع البيانات دون الحاجة الى نقلها سواء صور او تقارير او قاعدة بيانات. وللوزارة الحق في تجديد العقد مرة اخرى من عدمه حسب مصلحة الوزارة.

#### ٦. وصف تفصيلي للخدمة المطلوبة

تعتزم وزارة الصحة بشراء خدمة ارشفة الصور الطبية من المورد حيث يقوم المورد بتامين جميع الخدمات المذكورة بهذه الكراسة على شكل خدمة يتم محاسبته ودفع قيمتها على كل فحص يتم وصوله الى جميع الأنظمة المطلوبة محققا جميع الوظائف بدون أي نقصان. ويكون الدفع مقبولا للفحص شهريا بعد اعتمادها من المستشفى او الموقع المستفيد. ويلتزم المقاول بجميع ما ورد بهذه الكراسة من مواصفات للأنظمة، للتطبيقات، للخادمات، للرخص، للمحطات على الاقل ويطورها إذا لزم ذلك خلال فترة العقد على الا يزيد ذلك في سعر الفحص المعروض طيلة فترة العقد. ثم تنتقل ملكية هذه الاجهزة والمعدات للوزارة بشكل كامل بعد نهاية العقد مع جميع البيانات دون الحاجة الى نقلها سواء صور او تقارير او قاعدة بيانات. وللوزارة الحق في تجديد العقد مرة اخرى من عدمه حسب مصلحة الوزارة.

وبشمل مجال مشروع انشاء الأرشفة المركزية للصور الطبية لتنفيذ المهام التالية:





- إنشاء أرشفة مركزبة للصور الطبية داخل التجمع الصحى أو التجمعات الصحية (Central PACS).
  - إنشاء نظام إدارة الأشعة مركزي داخل التجمع الصحى أو التجمعات الصحية (Central RIS).
- انشاء كتابة التقارير عن بعد (الطب الاتصالى للأشعة) داخل التجمع الصحي أو التجمعات الصحية (داخل النشاء كتابة التقارير عن بعد (الطب الاتصالى للأشعة) داخل التجمع الصحي أو التجمعات الصحية (داخل النشاء كتابة التقارير عن بعد (الطب الاتصالى الأشعة) داخل التجمع الصحية (داخل التجمع الصحية الصحية (داخل التجمع التحمية التحمي
  - إنشاء مخزن لتكامل البيانات داخل التجمع الصحي او التجمعات الصحية (VNA).
  - نظام ارشفة الصور وادارة الموجات الصوتية للحوامل (OBY/GYN) بمستشفيات الولادة والاطفال.
- نظام مسح سرطان الثدي للكشف المبكر في بعض مستشفيات التكتلات الصحية مع قراءة النتائج بالطربقة العمياء.
- ربط مستشفيات المشاعر المقدسة بمكة المكرمة وإتاحة الفرصة لجميع المستشفيات بالتجمعات الصحية لإبداء الرأى والمشورة او كتابة التقارير عن بعد.
  - ربط أنظمة الأرشفة الموجودة بالمستشفيات بالأرشفة المركزبة
  - تامين العمل ومساره بدون انقطاع في حال تعطل الربط بين المستشفى ومركز البيانات الرئيسي.
    - اختبار الأنظمة اعلاه.
    - تدريب العاملين على استخدام الأنظمة.
- للربط و التكامل مع الأنظمة المختلفة في المستشفيات مثل نظام الـ HIS و الـ SeHe, PACS ، حيث يقع على عاتق المقاول المنفذ للمشروع بتحمل كافة التبعات المالية و الفنية و الإدارية اللازمة لذلك.
  - تقديم الصيانة (الضمان) خلال فترة العقد.





- تقديم نظام تحليل البيانات وحلول ذكاء الاعمال ( Reporting tool ) البيانات وحلول ذكاء الاعمال ( reporting tool ) سواء على مستوى التجمع الصحي او التجمعات الصحية مع ربطها بشكل مركزي وتدريب موظفى وزارة الصحة على استخدامها واستخراج التقارير اللازمة لذلك.
- تقديم جميع الخدمات الاستشارية والفنية اللازمة خلال فترة المشروع (مرحلة التنفيذ + مرحلة الصيانة والضمان).

ويحق للوزارة طلب أي خدمة او بعض الخدمات كما في جدول تكلفة الخدمات بنفس القيمة أو أقل. (زيادة عدد الفحوص او تقليلها، زيادة عدد المعدات او تقليلها) بحيث لا تتجاوز الـ ١٠ % من إجمالي الكمية المنصوصة بالكراسة. كما يحق للوزارة تجزئة المنافسة وتعميد كل تجمع صحى على حدة.

أيضا يحق للوزارة تخفيض الكميات وتقليص نطاق العمل. (تقليل عدد المستشفيات أو الفحوص او المعدات) بحيث لا تتجاوز الـ ٢٠ % من إجمالي الكمية المنصوصة بالكراسة.

والجداول التالية تعطى فكرة مبسطة عن نوعية جداول الكميات التي سيتم اخذها بعين الاعتبار في الحل الفني والمالى مستقبلا:

حيث توضح الجداول ادناه كل تجمع صعي على حدة وما به من نوع المنشأة (المستشفى)، حجم العمل من عدد الفحوصات، هل يوجد بها نظام أرشفة أم لا، والمتوقع للموقع اما ان يكون مركزي او به نظام محلى (حسب حجمه)، الكميات المطلوبة من المعدات داخل المنشأة (مع الاخذ ايضا بعين الاعتبار حجم العمل)، عدد العاملين من عدد الفحوصات داخل التكتلات المشمولة بهذه الكراسة على النحو التالي:





Hospital	E¹ Beds	No.	HIS only	HIS & PACs			PACS
	>7	١		1	۱ - MedicaPlus	١	۱ - Agfa
E١	Y	٥	۲	۲	۱ - Intersystems ۲ - MedicaPlus ۱ - Oasis	۲	۱ - GE ۱ - Phillips
	< 7	1 £	۲		۱ - CentralizedHIS ۱ - MedicaPLus		
	Totals	۲٠	۲۰%	10%		10%	

No.	Required Extra software concurrent licenses on Cluster E1 Level Description	Qty (Concurrent Licenses)
١	"D Post-processing (includes MRI/CT/US/Mamo/NM modalities)	۲.
۲	Orthopedic	۲.
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or limited user names by seat un-	1.9

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \\'. growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per o years Performed/site	Total No. of Diagnostic Workstations per ° years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per o years/ site	Total No. of CD Burner with Y CDs/site per o years/site	F-Total No. of Film Digitizer per ° years / site
		E) Cluster - Small Hospitals has no RIS/PACS:									
,	E	Prince Sultan Hospital in Orairah -(°° beds) - (has no PACS/RIS)	٧,٩٠٠	Xray,US,CT	Connection To central solution directly	۳۹ <sub>,</sub> ۰۰۰	י x זMP wide with second RIS Monitor	Y (a aside modalities and Y at reception and working area	۱۳ x single ۲ MP	,	
۲	E	Al Qatif Central Hospital - (**r° beds) - (has no PACS/RIS)	97,	Xray,CT,MRI, US,Fluoroscopy, Anglo,C-Arm Fluoroscopy, mamo	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٤٨٠,٠٠٠	٤ (٦MP wide with second RIS Monitor)	aside modalities and r at reception and working area	۳۰ (single ۲ MP)	,	,
٣	Ε'	Al Khafji General Hospital-(۱۰۰ beds) - (has no PACS/RIS)	۲۱,۰۰۰	Xray,US,CT,Hologic Mamo	Connection To central solution directly	1.7,0	۲ (۱MP wide with second RIS Monitor)	Y (a aside modalities and Y at reception and working area	Y (single Y MP)	,	,
٤	E'	Al Dhahran General Hospital-(1+ beds) - (has no PACS/RIS)	١,٠٠٠	Xray	Connection To central solution directly	0,	•	Y (1 aside modalities and 1 at reception and working area	Y (single Y MP)	•	
٥	Ε'	Al Nairia General Hospital-(1+ beds) - (has no PACS/RIS)	19, V	Xray,CT,US, Flurosocopy, Dental	Connection To central solution directly	91,000	Y (IMP wide with second RIS Monitor)	9 (Y aside modalities and Y at reception and working area	19 (single Y MP)	,	,





٦	Εì	Al Qariah Al- Olya Hospital-(° ' beds) - (has no PACS/RIS)	٦,٦٨٠	Xray,CT,US	Connection To central solution directly	TT, E	\ (\forage MP wide with second RIS Monitor)		Y (single Y MP)	,	,
٧	Εì	Ras Tannoorah Hospital-(° ' beds) - (has no PACS/RIS)	17,9	Xray,CT,US	Connection To central solution directly	Λ9,0	\ (\forage MP wide with second RIS Monitor)	7 (£ aside modalities and Y at reception and working area	Y (single Y MP)	,	
٨	Εì	Ank General Hospital-(° · beds) - (has no PACS/RIS)	17,7	Xray,US,	Connection To central solution directly	Α٦,	Y (TMP wide with second RIS Monitor)	° (£ aside modalities and 1 at reception and working area	(single Y MP)	1	,
٩	Εì	Prince Sultan Hospital in Mleejah-(° · beds) - (has no PACS/RIS)	1.,	Xray,US,	Connection To central solution directly	0.,	\ (\forage MP wide with second RIS Monitor)	t (" aside modalities and " at reception and working area	19 (single 7 MP)	1	,
١.	Εì	Safwa General Hospital -(° · beds) - (has no PACS/RIS)	17,	Xray,US,	Connection To central solution directly	1.,	\ (\forage MP wide with second RIS Monitor)	£ (" aside modalities and \ at reception and working area	1° (single ۲ MP)	,	,
11	Ε'	Al Rafeea General Hospital-(° · beds) - (has no PACS/RIS)	٥٫٨٠٠	Xray,US,	Connection To central solution directly	Y9,	\ (\text{\text{\text{MP wide}}}\) with second RIS Monitor)		Yo (single Y MP)	,	,
١٢	E	Bqeeq General Hospital-(° · beds) - (has no PACS/RIS)	17,	Xray,CT,US, Floroscopy	Connection To central solution directly	۸٥,٠٠٠	\ (\forage MP wide with second RIS Monitor)	9 (1 aside modalities and 1 at reception and working area	۹ (single ۲ MP)	1	1
١٣	E	Al-Jubail General Hospital-(Y · · beds) - (has no PACS/RIS)	10,	CT.MRI.US.X-ray, mamo, FLUOROSCOPY	Connection To central solution directly	٧٥,٠٠٠	Y x \MP + \ x • MP New	aside modalities and a at reception and working area	۱۰ x ۲MP	1	,
١٤	Εì	Bathaa General Hospital- Al Hassa- (° · beds) - (has no PACS/RIS)	1,	Xray	Connection To central solution directly	٥,٠٠٠	•	Y (1 aside modalities and 1 at reception and working area	Y (single Y MP)	•	
١٥	Εì	Salwa General Hospital-(° • beds) - (has no PACS/RIS)	0,0	Xray US	Connection To central solution directly	۲۷,۰۰۰	\ (\text{\text{\text{IMP wide}}}\) with second RIS Monitor)	r (r aside modalities and r at reception and working area	1° (single Y MP)	,	,
١٦	Εì	Amal Mental Health Complex- (°·· beds)	99.	Xray,CT,US	Connection To central solution directly	٥,٠٠٠	\ (\forage MP wide with second RIS Monitor)	Y (° aside modalities and Y at reception	' (single ' MP)	١	,





		Dammam - (has no PACS/RIS)						and working area		4	
14	Ε'	Dhahran Eye Specialist Hospital-(^ beds) - (has no PACS/RIS)	7, 580	Xray,CT	Connection To central solution directly	17,170	\ (\forage MP wide with second RIS Monitor)	" (Yaside modalities and 1 at reception and working area	τ (single τ MP)	,	
		E1 Cluster ,existing PACS/RIS									
١٨	Εì	King Fahad Specialist Hospital in Dammam- (۱۳۰ beds)- Agfa- PACS/RIS	٤٠,٠٠٠	CT, MRI, Mammography, Fluoroscopy,  Ultrasound, Interventional Radiology ,Nuclear Medicine, X-RAY.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	Y,	٤٠ existed	₹• existed		۲	1
19	E	Dammam Medical Complex (٤٢٣ beds)- Philips- PACS/RIS	15.,	Xray, US, CT, MRI, Mamo, BMD, Fluoroscopy	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	Y,	Y & MP, £ X  MP (B/W), £ X MP (Color), £ X MP (Color), £ X MP (Color) existed with second or third RIS Monitor existed + New  X MP and Y X MP new with second or third RIS Monitor	r. existed	YMP existed		
۲.	Εì	Maternity and Children Hospital in Dammam (٤٠٠ beds)- GE- PACS/RIS	07,797	MRI/CT/ FLUOROSCOPY / DIGITAL X-RAY / BMD / MAMMOGRAPHY / US / INTERVENTIONAL	Connection To central solution directly	Y7A,970	° x ¬MP, ¬ x ¬MP, ¬ x ¬MP, ¬ x ¬MP, existed + ¬ x ¬MP, ¬ x ¬MP (New)	°° existed	r · x · MP existed	,	,
		Total No. of Exams cross Cluster E	£91,£.A			۲,٤٥٧,٠٤٠					

#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per of Years	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per o
	Al Qatif Central					
١	Hospital - (٣٣٥ beds)	No	170.	770.	1	١
۲	Al Khafji General Hospital-(۱۰۰ beds)	No	170.	770.	1	١
	King Fahad Specialist Hospital in					
٣	Dammam(זיי beds)	Yes Agfa	170.	770.	1	١
	Dammam Medical					
٤	Complex (٤٢٣ beds)	Yes Philips	170.	770.	1	١
	Maternity and Children					
٥	Hospital in Dammam (٤٠٠ beds)	Yes GE	170.	770.	1	``
٦	Al-Jubail General Hospital-(۲۰۰ beds)	No	170.	770.	١	,
		Total	٧,٥٠٠	٣٧,٥	This number will	grow \./. per year





Hospital	E <sup>Y</sup> Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
ΕY	>1 1	٤	,	٣	Y - MiniHIS Y - Oasis Y CentralizedHIS	٣	۳ - Phillips
	<7	٦	۲		۲ - MiniHIS	١	۱ - GE
	Totals	1.	۳۰%	۳۰%		٤٠%	

No.	Required Extra software concurrent licenses on Cluster E <sup> +</sup> Level Description	Qty (Concurrent Licenses)
1	TD Post-processing (includes MRI/CT/US/Mamo/NM modalities)	10
۲	Orthopedic	٧٠
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	٦٧

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \'\'. growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per o years Performed/ site	Total No. of Diagnostic Workstations per ° years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with Y CDs/site per o years/ site	F-Total No. of Film Digitizer per ° years / site
		EY Cluster, small, medium to large hospitals									
,	Ε٢	Al-Jafr General Hospital -(** beds) - (has no PACS/RIS)	Y1,Y0·	Xray,CT,US, Floroscopy	Connection To central solution directly	1.7,40.	`x \MP wide with second RIS Monitor	Y (aside modalities and Y at reception and working area	Y x single Y MP	,	)
۲	Ε٢	Al-Oyoun City General Hospital -(** beds) - (has no PACS/RIS)	۱۸,۹۰۰	Xray,CT,US	Connection To central solution directly	95,000	1 x 1MP wide with second RIS Monitor	7 (£ aside modalities and 7 at reception and working area	Y x single Y MP	,	,
٣	Ε <sup>γ</sup>	Maternity & Children Hospital -(£00 Al Hassa- (has no PACS/RIS)	101,4	Xray,CT,MRI, Mamo,US, Floroscopy, Bone Density,	Connection To central solution directly	Y09,	Y x TMP wide with second RIS Monitor	sh (sh aside modalities and h at reception and working area	۱٤ x single ۲ MP	,	,
£	EY	Mental Health Hospital -(\(\cdot\) - Al beds) - Al Hassa - (has no PACS/RIS)	٣,٢٠٠	Xray,US	Connection To central solution directly	17,	1 x 1MP wide with second RIS Monitor	" (Y aside modalities and Y at reception and working area	٤ x single ٢ MP	,	,





					_						
٥	Ε¥	Al-Jabr ENT and Eye Hospital -(1 beds) Al Hassa - (has no PACS/RIS)	15,000	Xray,CT	Connection To central solution directly	٧٢,٥٠٠	`x \MP wide with second RIS Monitor	£(Y aside modalities and Y at reception and working area	۱° x single ۲ MP	,	,
٦	ΕY	Alfaliq Rehabilitation Hospital -(^, beds)- Al Hassa - (has no PACS/RIS)	Y,0	Xray	Connection To central solution directly	17,000	\ x \MP wide with second RIS Monitor	Y (1 aside modalities and 1 at reception and working area	Y x single Y MP	,	,
		EY area ,existing PACS/RIS									
٧	EY	King Fahad Central Hospital In Hafouf- (° · · beds)- Philips- PACS/RIS	Y11,VIV	CT. MRI, X-Ray, US, BMD, Mamo, Fluro, Angio,	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	١,٠٥٨,٨٣٥	A x YMP, A x YMP, I x o MP existed with second or third RIS Monitor + New as follows: A x YMP, o x YMP, i x o MP, i	** existed + 1 · New	YMP existed	YCD Burner existed + Y CD Burner new	,
٨	EY	Prince Saud Bin Jalloway Hospital (۲۰۰ beds)- In Hafouf - Philips- PACS/RIS	٥٧,٤٠٧	CT. MRI, X-Ray,US, BMD, Mamo, Fluro, Angio,		YAV,• #0	"x"MP, 'x o MP, "x TMP existed with second or third RIS Monitor + "x "MP, "x TMP with second or third RIS Monitor	۱٤ Old + ٦ New	Yo x single Y MP existed + Yo New	) existed	\ existed
٩	ΕΥ	King Faisal General Hospital - (۲۰۰ beds)- In Hafouf - Philips- PACS/RIS	9,997	CT,MRI,X- Ray, US,	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٤٩,٩٨٠	" x "MP , " x "MP existed with second or third RIS Monitor	ונ existed + ז New	Yo x single Y MP + Yo New single YMP	) existed	\ existed
		Total No. of Exams cross Cluster E <sup>۲</sup>	£91,77°			۲,٤٥٦,٦٠٠					

		E <sup>†</sup> Breas	t Cancer Scree	ening Data		
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per <sup>o</sup> Years
	Maternity & Children Hospital -(٤٥٠			• •		
1	beds) - ALHassa King Fahad Central Hospital In Hafouf-	No	170.	770.	,	1
۲	beds)	Yes Philips	170.	770.	١	,
٣	Prince Saud Bin Jalloway Hospital (۲۰۰ beds)- In Hafouf	Yes Philips	170.	770.	,	,
		Total	۳.۷٥٠	11.70.	This number will	grow ۱۰% per year





Hospital	E <sup>r</sup> Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
	>7						
Ε٣	Y · · - 7 · ·	٤	۲	۲	۱ - Oasis ۳ - CentralizedHIS	۲	۲ - Carestream
	<7	٣	٣		٣ - CentralizedHIS	•	
	Totals	٧	۷۱%	۲۸%		Y9%	

No.	Required Extra software concurrent licenses on Cluster E <sup>†</sup> Level Description	Qty (Concurrent Licenses)
١	TD Post-processing (includes MRI/CT/US/Mamo/NM modalities)	١.
۲	Orthopedic	٧
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	71

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \.\'\'\'\' growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per o years Performed/ site	Total No. of Diagnostic Workstations per • years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with Y CDs/site per o years/ site	F-Total No. of Film Digitizer per * years / site
		E <sup>r</sup> Cluster, small, medium to large hospitals									
,	Ε٣	King Khaled Hospital in Hafer Al-Baten- (*•• beds) - (has no PACS/RIS)	1,9	Xray,CT,MRI, US,BMD, Fluoroscopy, mamo	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	0.5,0	£ (¹MP wide with second RIS Monitor), ↑ X ∘MP with third RIS Monitor	aside modalities and £ at reception and working area	er (single f		,
۲	Er	Al-Saairah General Hospital- Haf Al Baten - (° · beds) - (has no PACS/RIS)	٣,٠٠٠	Xray, US	Connection To central solution directly	10,	•	v (£ aside modalities and r at reception and working area	Y (single Y MP)	•	•
٣	Ε۳	Al-Qaysoma General Hospital-(° · beds) - (has no PACS/RIS)	٥,٠٠٠	x-ray	Connection To central solution directly	Y0,	•	•	•	٠	
ŧ	Ε۳	Mental Health Hospital-(° · beds) - Hafer Al Baten (has no PACS/RIS)	···	Xray	Connection To central solution directly	۲,۰۰۰	•	Y (Yaside modalities and Yat reception and working	•	•	•





								area			
٥	Εr	Recovery Hospital-(° ' beds) Hafer Al Baten - (has no PACS/RIS)	0	Xray	Connection To central solution directly	Υ,ο	•	Y (1 aside modalities and 1 at reception and working area			
		E <sup>r</sup> area ,existing PACS/RIS									
٦	Εr	Hafer Al Batin Central Hospital- (۲۰۰ beds)- Carestream- PACS/RIS	٥٠,٠٠٠	CT.MRI.US.X-ray, mamo	Connection To central solution directly	70.,	' x 'MP, " x "MP, ' x ° MP existed	۳ existed	Yo x YMP existed	,	,
٧	Ε٣	Maternity and Children Hospital- Hafer Al Batin- (*** beds)- Carestream- PACS/RIS	10,	CT,MRI,US,X- ray, mamo	Connection To central solution directly	٧٥,٠٠٠	Y x YMP, Y x YMP, Y x YMP, Y x oMP existed + Y x YMP	٤٠ existed	Y· x YMP existed	,	,
		Total No. of Exams cross Cluster E <sup>۲</sup>	172,9			۸٧٤,٥٠٠					

		E۳ Breast	Cancer Scree	ning Data		
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per of Years
	King Khaled Hospital in		•			
1	Hafer AlBaten-(** beds)	No	170.	770.	1	1
	Hafer Al Batin Central	Yes				
۲	Hospital(Y · · beds)	Carestream	170.	770.	1	1
	Maternity and Children	Yes				
٣	HospitalHafer Al Batin- (** beds)	Carestream	170.	770.	١	١
		Total	٣,٧٥٠	11,40.	This number will g	ırow ⋯ per year





Hospital	C1 Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
	>٦٠٠	١		١	۱ - MedSys	١	۱ - Carestream
C١	Y • • - 7 • •	٧		٤	Y - Oasis Y - Careware Y - MedicaPlus	٥	Y - Carestream Y - Phillips Y - FujiFilm
	<٢٠٠	١.	۲		۲ - MiniHIS	١	\ Carestream
	Totals	۱۸	11%	۲۸%		٣٩٪	

No.	Required Extra software concurrent licenses on Cluster C1 Level Description	Qty (Concurrent Licenses)
١	"D Post-processing (includes MRI/CT/US/Mamo/NM modalities)	۳.
۲	Orthopedic	70
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	٨٥

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \'\'\' growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per ° years Performed/ site	Total No. of Diagnostic Workstations per ° years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with  CDs/site per o years/ site	F-Total No. of Film Digitizer per ° years / site
		C¹ Cluster - Small Hospitals has no RIS/PACS:									
•	C1	Aflaj Hospitals- Al Aflaj- (۱۲۰ beds) - (has no PACS/RIS)	٣٦,٠٠٠	x-ray, US, CT, MRI, mamo, Fluoroscopy	Connection To central solution directly	14.,	Y x \MP wide with second RIS Monitor	aside modalities and " at reception and working area	Y (single Y MP)		
۲	Cı	Wadi Adwaser Hospital- Wadi Adwaser- (۱۲۰ beds) - has no PACS/RIS)	۲۰,۰۰۰	x-ray, US, CT, MRI, Mamo	Connection To central solution directly	1,	x \MP wide with second RIS Monitor	aside modalities and " at reception and working area	۲۸ (single ۲ MP)	,	,
٣	Cı	Hotat Tamem Hospital- Hotat- (\(\cdot\)\cdot\) beds) - has no PACS/RIS)	۲۸,۰۰۰	x-ray, US, CT, Fluoroscopy	Connection To central solution directly		' x \MP wide with second RIS Monitor			,	1
٤	Cı	Sulayil Hospital- Sulayil- (\(\cdot\)\cds) - has no PACS/RIS)	۲۳,۰۰۰	x-ray, US, CT, Fluoroscopy	Connection To central solution directly	110,	x \MP wide with second RIS Monitor	Y (a side modalities and Y at reception and working area	° (single ۲ MP)	,	1





٥	Cì	Alrean Hospital- Alrean- (° · beds) - has no PACS/RIS)	٦,٥٠٠	x-ray	Connection To central solution directly	TY,0	•	o (Y aside modalities and Y at reception and working area	° (single ۲ MP)	,	,
٦	C1	Prince Salman Bin Mohammed General Hospital Dalam- Dalam - (° · beds) - has no PACS/RIS)	٦,٥٠٠	x-ray, US	Connection To central solution directly	TT,0	x TMP wide with second RIS Monitor	T (" aside modalities and " at reception and working area	MP)	,	,
٧	C1	Khasra Hospital- Khasra- (° · beds) - has no PACS/RIS)	٥,٠٠٠	x-ray	Connection To central solution directly	۲۰,۰۰۰		° (* aside modalities and * at reception and working area	10 (single Y MP)	,	,
۸	C1	Rewaydat Alard Hospital- Rewaydat Alard- (° · beds) - has no PACS/RIS)	۹,٥٠٠	x-ray, US, CT	Connection To central solution directly	٤٧,٥٠٠	x TMP wide with second or third RIS Monitor	o (" aside modalities and " at reception and working area	۹ (single ۲ MP)		
٩	C1	Alhareq Hospital- Alhareq- (° · beds) - has no PACS/RIS)	۹,۰۰۰	x-ray, US, CT	Connection To central solution directly	٤٧,٥٠٠	Y x TMP wide with second or third RIS Monitor	A (a aside modalities and a reception and working area	1. (single Y	,	,
١.	CI	Al Naqaha Hospital- Riyadh- (° · beds) - has no PACS/RIS)	0,	x-ray, US, CT	Connection To central solution directly	۲۰,۰۰۰	1 x 1MP wide with second or third RIS Monitor	7 (£ aside modalities and 7 at reception and working area	1. (single Y	,	,
		C) Cluster - Medium to large Hospitals									
11	C1	Goeyah Hospital- Goeyah- (۲۰۰ beds) - (has no PACS/RIS)	00,	x-ray, US, CT, MRI, mamo, Fluoroscopy, BMD	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	۲۷۰,۰۰۰	¹ x ¹MP wide with second RIS Monitor + ¹ dual ∘MP with second or third RIS Monitor	aside modalities and " at reception and working area	r (single r MP)	,	,
		C1 Cluster - existing PACS/RIS									
١٢	C1	King Saud Medical City- Riyadh- (۱۲۰۰ beds)- Carestream PACS/RIS	YYA,	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Upgrade or replace with connection to central solution directly	1,180,000	x AMP existed with second or third RIS Monitor	٦.		,	,
1 "	C1	King Salman Abdulaziz Hospital- Riyadh- (۲۰٦ beds)- Philips PACS/RIS	111,	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Upgrade or replace with connection to central solution directly	٦٠٥,٠٠٠	Y & MP, Y X MP (B/W), Y X MP (B/W), Y X MP (Color), Y X Y MP (Color) existed with second or third RIS	V• existed	r. x YMP existed	\ existed	\ existed





							Monitor + "X  NP new with second or third RIS Monitor				
15	C1	Al Iman General Hospital- Riyadh- (۲۰۷ beds)- Fujifilm PACS/RIS	Vo,	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Upgrade or replace with connection to central solution directly	***************************************	" X AMP, Y X TMP, Y X O MP, existed with second or third RIS Monitor + £ X TMP at new tower with second or third RIS Monitor	r: X RIS existed, + r: at new tower	if x YMP + YY at new tower		
10	Cı	Al Imam Abdul Rahman Al Faisal Hospital- Riyadh- (۲۰۰ beds)- Philips PACS/RIS	٧٥,٠٠٠	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Upgrade or replace with connection to central solution directly	~~o,	'x°MP, 'x' MP, "x"MP existed	^ X RIS existed,	rr x rMP existed	,	,
17	Cı	Muzahmia Hospital- Muzahmia- (° · beds) – Carestream PACS/RIS	19,	x-ray, US, CT	Connection To central solution directly	90,	' x 'MP, ' x "MP, existed with second or third RIS Monitor	٤٨ existed	11 x Y MP existed	¹ existed	\ existed
1 V	Cı	Children and Delivery Hospital- Al Kharj- (۲۰۰ beds)- Carestream PACS/RIS	۸,۰۰۰	x-ray, US, CT	Connection To central solution directly	٤٠,٠٠٠	° x ½MP, Y x 1MP, Y x 1MP, Y x ^MP existed with second or third RIS Monitor	YY existed	r· x YMP existed	) existed	) existed
١٨	Cı	King Khalid Hospital – Al Kharj- (***) beds) - Carestream PACS/RIS	٣٥,٠٠٠	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Upgrade or replace with connection to central solution directly	140,	o x fMP, f x TMP, f x AMP existed with second or third RIS Monitor	*· existed	£ x YMP existed	\ existed	\ existed
		Total No. of Exams cross Cluster C	٧٦٥,٠٠٠			٣,٨٢٥,٠٠٠					

		C\ Cluster Br	east Cancer Sc	reening Data		
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per o
	Aflaj HospitalsAl Aflaj- (۱۲۰					
1	beds)	No	170.	770.	1	١
۲	Wadi Adwaser Hospital- Wadi Adwaser- (۱۲۰ beds)	No	170.	770.	1	,
٣	Goeyah Hospital Goeyah-	No	170.	770.	١	,
٤	King Saud Medical City Riyadh-	Yes Carestream	170.	770.	1	,
٥	King Salman Abdulaziz HospitalRiyadh- (Yol beds)	Yes Philips	170.	٦٢٥.	١	,
٦	Al Iman General Hospital Riyadh-	Yes FujiFilm	170.	770.	١	,
٧	Al Imam Abdul Rahman Al Faisal Hospital Riyadh- (۲۰۰ beds)	Yes Philips	170.	770.	١	,
٨	King Khalid Hospital – Al Kharj- (۳۰۰ beds)	Yes Carestream	170.	770.	١	١
		Total	1.,	٥٠,٠٠٠	This number will g	grow い per year





Hospital	C <sup>Y</sup> Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
	> ٦٠٠	١		١	۱ - Cortex	١	1 - GE
С	Y 7	٣	١	۲	۱ - Oasis ۱ - Local ۱ - Cerner	۲	۱- Carestream ۱- GE
	<7	٨	۲		۲ - MiniHIS	١	۱- Carestream
	Totals	١٢	40%	40%		<b>""</b>	

No.	Required Extra software concurrent licenses on Cluster C <sup>↑</sup> Level Description	Qty (Concurrent Licenses)
١	TD Post-processing (includes MRI/CT/US/Mamo/NM modalities)	70
۲	Orthopedic	10
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	9.٧

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \.\'\'\' growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per • years Performed/ site	Total No. of Diagnostic Workstations per ° years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per • years/ site	Total No. of CD Burner with Y CDs/site per o years/ site	F-Total No. of Film Digitizer per ° years / site
		CY Cluster – small to medium hospitals (has no RIS/PACS)									
`	C1	King Khalid Hospital Magmah- (۲۰٤ beds) - (has no PACS/RIS)	<b>~1,</b>	X-Ray, US,CT, MRI, Mamo	Connection To central solution directly	100,	\x o MP + \x MP	no (9 aside modalities + 3 at reception/working area)	Y · X Y MP	,	,
۲	C1	Zulfi Hospital- (۱۷ beds) - (has no PACS/RIS)	۲۰,۰۰۰	X-Ray, US,CT, MRI, Fluoroscopy	Connection To central solution directly	1,	\ x \ MP	nodalities + at reception/working area)	Y · X Y MP	,	,
٣	C1	Hotat Sedir Hospital-(^° beds) - (has no PACS/RIS)	1.,0	X-Ray, US,CT	Connection To central solution directly	07,0	۱ x ۱MP	nv (9 aside modalities + r at reception/working area)	17 x YMP	1	1
٤	CY	Algat Hospital-(° · beds) - (has no PACS/RIS)	11,	X-Ray, US,CT	Connection To central solution directly	00,	x ۱MP	nodalities + at reception/working area)	Y x YMP	,	,
٥	C1	Tamer Hospital-(° · beds) - (has no PACS/RIS)	**,	X-Ray, US,CT	Connection To central solution directly	11.,	•	n. (1 aside modalities + 4 at reception/working area)	II x YMP	,	,





٦	C1	Ramah Hospital-(° · beds) - (has no PACS/RIS)	17,7	X-Ray, US,CT	Connection To central solution directly	٦١,٠٠٠	' x ¹MP	nv (9 aside modalities + r at reception/working area)	11 x TMP	,	,
٧	CY	King Saud Chest Diseases Hospital- (۱۳ beds) - (has no PACS/RIS)	٤٠,٠٠٠	X-Ray, US,CT,	Connection To central solution directly	Y,	' x <sup>†</sup> MP	ny (A aside modalities + ½ at reception/working area)	'' x YMP	,	,
		CY Cluster ,existing PACS/RIS				,					
٨	C1	King Fahad Medical City -Riyadh- (1.1K beds)- GE PACS/RIS	14.,	x-ray, CT, MRI, Mamo, US, BMD, Nuclear medicine, Fluoroscopy	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	9,	" X T MP, T X " MP, A X T MP, E X O MP existed + O X T MP + T X O MP New	v° existed	•	,	,
٩	C1	Prince Mohammed bin Abdul Aziz Hospital- Riyadh- (*** beds)-GE PACS/RIS	۸۰,۰۰۰	x-ray, CT, MRI, Mamo, US, BMD, Nuclear medicine, Fluoroscopy	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٤٠٠,٠٠٠	Y x YMP, Y x YMP, A x YMP (Color), Y x YMP (Black & white), Y x YMP (Color), Y x YMP (Color), Y x YMP (Color)	Y · existed	v· x YMP existed	,	,
١.	C	Arta Wiah Hospital - Riyadh-(° · beds)- Carestream PACS/RIS	٦,٠٠٠	x-ray, CT, US	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٣٠,٠٠٠	' x 'MP, ' x "MP existed	٤٨ existed	11 x YMP existed	,	,
11	C	Al Yamamah Hospital- Riyadh-(£11 beds)- Carestream PACS/RIS	**Y,V9.	x-ray, CT, MRI, Mamo, US	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	177,900	Y x ™P, ™ x ™MP, Y x ∘MP	90	Yé x YMP existed	,	,
		Total No. of Exams cross Cluster CY	110,19.			7,777,£0.					

	CY Breast Cancer Screening Data											
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per of Years	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per ° Years						
	King Khalid Hospital Magmah(۲۰۶	No	170.	770.	1	,						
, ,	beds) King Fahad Medical City - Riyadh(¹. 'K beds)	Yes GE	170.	770.	1	,						
٣	Prince Mohammed bin AbdulAziz Hospital Riyadh- (*** beds)	Yes GE	170.	770.	1	,						
٤	Al Yamamah Hospital Riyadh-(٤١١)	Yes Carestream	170.	170.	١	,						
	,	Total	0,	۲۵,۰۰۰	This number wi	ll grow ⋯% per year						





Hospital	S \ Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
	>1						
S١	۲۰۰-۳۰۰	٣		۲	۱ - MiniHIS ۱ - Icare	٣	۲ - Carestream ۱ - GE
	<٢	١٨	١	۲	۲ - MiniHIS	١٦	۱٦- Carestream
	Totals	۲١	٥%	19%		٩٠%	

No.	Required Extra software concurrent licenses on Cluster S1 Level Description	Qty (Concurrent Licenses)
١	TD Post-processing (includes MRI/CT/US/Mamo/NM modalities)	۳.
۲	Orthopedic	*1
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	٥,

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \( \cdot \cd	Modality types per site	Recommendation to Hospital	Total No. of Studies per • years Performed/ site	Total No. of Diagnostic Workstations per • years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with	F-Total No. of Film Digitizer per ° years / site
		S¹ Cluster - Small to medium Hospitals has no RIS/PACS:									
1	Si	Alkharja General Hospital – Baha - (° · beds) - (has no PACS/RIS)	1	X-ray	Connection To central solution directly	0,	•	•	•		
*	Si	Mental Health Hospital in Bisha- Asir - (' · · beds) - (has no PACS/RIS)	11,	X-ray	Connection To central solution directly	00,	۱ x ۱ MP	° (* aside modalities + * at working area	° x <sup>۲</sup> MP	1	,
		S¹ Cluster - existing PACS/RIS									
٣	Si	Asir Central Hospital- (tobeds)- CareStream PACS/RIS	17.,	CT, MRI ,X- ray, US, mamo, BMD,	Upgrade or replace with connection to central solution directly	A,	^ x "MP , ^ x \ MP existed + \ \ x \circ MP New	Y7 existed	r. x YMP existed	,	,





					•						
ŧ	Si	Khamis Mushayt General Hospital - (۱۰۰ beds)- CareStream PACS/RIS	٥٧,٠٠٠	CT, MRI ,X-ray, US,	Upgrade or replace with connection to central solution directly	۲۸۰,۰۰۰	'x'MP,"x" MP existed + 'x'MP	₹\\ existed	Y X YMP existed	,	,
8	Sì	Sarat Ubaida General Hospital - (۱۲۰ beds)- CareStream PACS/RIS	۲۰,۰۰۰	X-ray, US,	Connection To central solution directly	1,	' x ' MP existed	२० existed	£ X YMP existed	,	,
٦	SI	Dhahran Al- Janoab General Hospital - (۱۰۰ beds)- CareStream PACS/RIS	١٨,٠٠٠	X-ray, US,	Connection To central solution directly	9.,	' x ' MP existed	₹ existed	£ X YMP existed	,	1
٧	Si	Rejal Almaa General Hospital - (\) beds)- CareStream PACS/RIS	١٤,٠٠٠	X-ray, US,	Connection To central solution directly	٧٠,٠٠٠	' x ' MP existed	٤٢ existed	£ X YMP existed	,	,
٨	Sì	Uhod Rafidah General Hospital - (°° beds)- CareStream PACS/RIS	۲٤,٠٠٠	X-ray, US,	Connection To central solution directly	17.,	' x ' MP existed	ro existed	£ X YMP existed	,	,
٩	Sì	Al-Farshah Hospital - (°° beds)- CareStream PACS/RIS	0,0	X-ray, US,	Connection To central solution directly	YV,0	' x ' MP existed	TY existed	£ X YMP existed	,	,
١.	Sì	Al-Harjah Hospital - (°° beds)- CareStream PACS/RIS	ν,	X-ray, US,	Connection To central solution directly	٣٥,٠٠٠	' x ' MP existed	ro existed	£ X YMP existed	,	,
11	Sì	Khamis Mushayt Maternity Hospital - (۲۰۰ beds)- GE PACS/RIS	ro,	X-ray, US, CT, MRI, Mamo	Connection To central solution directly	170,	1 X DWS with 1 MP NIO 1 x DWS MP NIO color 1 X DWS with 1 MP 1 x DWS MP NIO gray scale 1 x DWS MP NIO existed	TT existed	··· x ··· MP	,	,
17	SI	Maternity & Children's Hospital in Abha - (Υ·· beds)-CareStream PACS/RIS	۲۳,۰۰۰	X-ray, US, CT	Connection To central solution directly	110,	' x ' MP existed	٦٤ existed	£ X YMP existed	,	,





					•						
1	Si	Bilhamar General Hospital(° · beds)- CareStream- PACS/RIS	17,	X-Ray, US, CT	Connection To central solution directly	٦٠,٠٠٠	' x 'MP existed	19 existed	£ x Y existed	MP ·	
١٤	Si	Al-Madhah Hospital(° · beds)- CareStream- PACS/RIS	0,	X-Ray, US	Connection To central solution directly	۲٥,٠٠٠	' x 'MP existed	ro existed	ź x Y existed	MP ·	
١٥	Si	Tannumah Hospital(° · beds)- CareStream- PACS/RIS	9,0	X-Ray, US	Connection To central solution directly	٤٧,٥٠٠	' x 'MP, ' x " MP existed	٤٨ existed	n x Y existed	MP ·	•
١٦	Si	Mahayel General Hospital- (۱۷۰ beds)- Carestream PACS/RIS	٦٠,٠٠٠	X-Ray, US, CT, MRI, Fluoroscopy,	Upgrade or replace with connection to central solution directly	٣٠٠,٠٠٠	' x 'MP, ' x "MP existed + ' x ' MP New	٤٠ existed	A X Y existed	MP 1	1
1 V	SI	Al-Namas General Hospital- (۱۰۰ beds)- CareStream PACS/RIS	7.,	X-Ray, US, CT,	Connection To central solution directly	1,	¹ x ⁴MP existed	19 existed	ź x Y existed	MP 1	,
١٨	Si	Bllsamar General Hospital() beds)- CareStream- PACS/RIS	17,	X-Ray, US, CT	Connection To central solution directly	7.,	' x 'MP existed	19 existed	٤ x ٢ existed	MP ·	
١٩	SI	Al-Majardah General Hospital- (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	٣٠,٠٠٠	X-Ray, US, CT,	Connection To central solution directly	10.,	' x 'MP existed	₹₹existed	ź x Y existed	MP 1	,
۲.	Si	Al-Qahmah General Hospital - (°° beds) - Carestream PACS/RIS)	٣,٠٠٠	X-Ray, US	Connection To central solution directly	10,	'x 'MP existed	r° existed	£ x Y existed	MP 1	,
*1	Sì	Al-Berk General Hospital (°° beds)- CareStream- PACS/RIS	٦,٠٠٠	X-Ray, US, CT	Connection To central solution directly	T.,	' x 'MP existed	r° existed	ź x Y existed	MP ·	•
		Total No. of Exams cross Cluster S	044,			۲,٦٦٥,٠٠٠					





		S\ Breast Canc	er Screening Data			
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per o Years	Total Number of breast cancer screening PC & scanner per of Years	Total Number of DICOM Worklist Gateway per o Years
١	Asir Central Hospital- (٤٥٠ beds)	Yes Carestream	170.	770.	1	1
۲	Khamis Mushayt Maternity Hospital - (۲۰۰ beds)	Yes GE	170.	770.	,	1
		Total	۲,٥٠٠	17,0	This number will	grow ۱۰% per year





Hospital	SY Beds	No.	HIS only	HIS & PACs	HIS Vendor		PACS Vendor
	>1						
SA	Y\(\frac{1}{2}\).	٣		۲	\ - Centralized HIS \ \ - MedicaPlus	۲	۲ - Philips
	< ٢ ٠ ٠	١٨	٤	۲	° - MiniHIS ¹ - Oasis	٣	۳ - Carestream
	Totals	71	19%	19%		7 £ %	

No.	Required Extra software concurrent licenses on Cluster S <sup>↑</sup> Level Description	Qty (Concurrent Licenses)
١	"D Post-processing (includes MRI/CT/US/Mamo/NM modalities)	١.
۲	Orthopedic	١.
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	٣٥

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \.\'\'. growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per ° years Performed/ site	Total No. of Diagnostic Workstations per * years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per * years/ site	Total No. of CD Burner with  Total  CDs/site per years/ site	F-Total No. of Film Digitizer per ° years / site
		S <sup>T</sup> Cluster - Small to medium Hospitals has no RIS/PACS:									
,	ST	Sametah General Hospital- (۱۰۰ beds) - (has no PACS/RIS)	05,	CT, MRI, X- Ray, US, Fluoroscopy	Connection To central solution directly	YY•,•••	•	r. (15 aside modalities + 7 at working area)	Y · x YMP New	,	,
۲	ST	Sabya General Hospital- (۱۰۰ beds) - (has no PACS/RIS)	00,	CT, MRI, X- Ray, Mamo, US, Fluoroscopy	Connection To central solution directly	YY0,	`x ¬MP + `x ∘MP New	no (9 aside modalities + 7 at working area)	Y £ x YMP New	,	,
٣	ST	Abu Arish General Hospital- (۱۳۰ beds) - (has no PACS/RIS)	74,	CT, MRI, X-Ray, US,	Connection To central solution directly	۳۱۰,۰۰۰	•	no (9 aside modalities + 1 at working area)	Y · x YMP New	,	,
£	ST	Forasan General Hospital- (Y · beds) - (has no PACS/RIS)	9,	CT, X-Ray, US,	Connection To central solution directly	٤٥,٠٠٠	` x ٦MP New	nodalities nodalities notation	10 x YMP New	,	,
٥	ST	Fifa General Hospital- (٦º beds) - (has no PACS/RIS)	۸,۰۰۰	CT, X-Ray, US,	Connection To central solution directly	٤٠,٠٠٠	•	aside modalities + a at working	۱۳ x ۲MP New	•	•





					*						
٦	Sĭ		17,0	X-Ray, US,	Connection To	۸۲,۰۰۰	ヽx スMP New	area) New	۱۲ x ۲MP New	,	,
		Al-Ardhah General Hospital- (٦٠ beds) - (has no PACS/RIS)	,	Artay, 56,	central solution directly	,	X 1.6.	modalities + <sup>Y</sup> at working area) New	X WII 110W		
٧	ST	Ahed Masarha General Hospital- (° ' beds) - (has no PACS/RIS)	۲۷,۰۰۰	X-Ray, US, CT	Connection To central solution directly	140,	¹ x ₹MP New	aside modalities + at working area)	^ x YMP New		,
٨	ST	Al-Darb General Hospital- (° · beds) - (has no PACS/RIS)	10,0	X-Ray, US, CT	Connection To central solution directly	YV,o	۱ x ٦MP New	n. (1 aside modalities + ½ at working area) New	17 x YMP New	,	,
٩	ST	Al-Reath Hospital- (° · beds) - (has no PACS/RIS)	۱۸,۰۰۰	X-Ray	Connection To central solution directly	9.,		° (Y aside modalities + Y at working area)	Y x YMP New	,	1
1.	ST	Al-Tiwal General Hospital- (° · beds) - (has no PACS/RIS)	14,	X-Ray, US	Connection To central solution directly	9.,	۱ x ۱MP New	v (° aside modalities + v at working area)	17 x YMP New	,	,
11	ST	Al-Mosim General Hospital- (° · beds) - (has no PACS/RIS)	۲۷,	X-Ray, US	Connection To central solution directly	150,	•	° (" aside modalities + ' at working area)	↑・x ۲MP New	,	,
17	ST	Bani Malek General Hospital- (° ' beds) - (has no PACS/RIS)	٣٩,0··	X-Ray, US, CT	Connection To central solution directly	194,000	י x זMP New	aside modalities + 1 at working area)	17 x YMP New	,	,
١٣	ST	Dhamad General Hospital- (° ' beds) - (has no PACS/RIS)	<b>~9,~.</b>	X-Ray, US,	Connection To central solution directly	197,000	•	aside modalities + 1 at working area)	۱・x ™P New	,	,
١٤	ST	Al-Khobah Hospital- (° • beds) - (has no PACS/RIS)	۸,۰۰۰	CT, X-Ray, US,	Connection To central solution directly	٤٠,٠٠٠	•	aside modalities + ° at working area) New	۱۳ x ۲MP New		
10	SY	Mental Health Hospital in Jazan- (۲۰۰ beds) - (has no PACS/RIS)	١,٠٠٠	X-Ray	Connection To central solution directly	٥,٠٠٠	•	Y (1 aside modalities + 1 at working area)	٣ x ۲MP New		
17	ST	Chest Hospital- (° · beds) - (has no PACS/RIS)  SY Cluster - existing PACS/RIS	17,	X-Ray	Connection To central solution directly	70,	•	o (Yaside modalities + Yat working area)	<sup>™</sup> x <sup>™</sup> MP New		





1 1 2	SY	King Fahd Central Hospital in Jazan- (٤٠٠ beds)- Philips PACS/RIS	Y0,	CT, MRI, X-Ray, US, Fluoroscopy	Upgrade or replace with connection to central solution directly	٣٧٥,	' X ° MP, " X " MP (B/W), ' X " MP (Color), ' X ' MP (B/W), ' X 'MP (Color) existed with second or third RIS Monitor + " X 'MP new with second or third RIS Monitor, ' x oMP third RIS Monitor	٣.	r. x YMP existed		
١٨	ST	Prince Mohammed bin Nasser Hospital- (100 beds)- Philips PACS/RIS	٤٥,٠٠٠	CT, MRI, X- Ray, US, Fluoroscopy	Connection To central solution directly	770,	'x°MP, 'x' MP, "x"MP existed	Α	٤١ x YMP	,	,
19	ST	Jazan General Hospital - (۱۰۰ beds)- Carestream PACS/RIS	۲۳,۰۰۰	CT, X-Ray, US, Mamo, Fluoroscopy	Connection To central solution directly	110,	' x 'MP, " x 'MP, ' x 'MP, ' x 'MP existed with second or third RIS Monitor + '	۳ existed	to x tMP existed	,	,
۲.	SY	Besh General Hospital - (۱۰۰ beds)- CareStream PACS/RIS	Y7,···	CT, X-Ray, US,	Connection To central solution directly		' x 'MP, ' x "MP existed with second or third RIS Monitor	٤٦ existed	₹ x YMP existed	,	,
*1	ST	Al-Aydaby hospital - (°° beds)- CareStream PACS/RIS	٦,٠٠٠	X-Ray, US,	Connection To central solution directly	٣٠,٠٠٠	' x 'MP, ' x "MP existed with second or third RIS Monitor	٤٨ existed	11 x YMP existed		
		Total No. of Exams cross Cluster S <sup>۲</sup>	٥٨٦,٩٠٠			۲,۹۳٤,٥٠٠					

	1	S <sup>†</sup> Breast Cance	r Screening Da	ata	Total Neuroban	ı		
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per of Years	Total Number of breast cancer screening PC & scanner per o Years	Total Number of DICOM Worklist Gateway per o		
	Sahya Canaral Hagnital () 3.							
١	Sabya General Hospital- (۱۰۰ beds)	No	170.	770.	,	,		
	Jazan General Hospital -	Yes						
۲	(۱º· beds)	Carestream	170.	770.	1	١		
		Total	۲,0	17,0	This number will grow ۱۰٪ per ye			





Hospital	W \ Beds	No.	HIS only	HIS & PACs	HIS Vendor	F	PACS Vendor
W١	>7	Y		٦	۳ - MedicaPlus ۲ - Careware ۱ - AST	٦	٤ - GE ١ - Philips ١ - Agfa
	< ٢	١٣					
	Totals	٠,	• %	٣٠%		٣٠٪	

No.	Required Extra software concurrent licenses on Cluster W1 Level Description	Qty (Concurrent Licenses)
١	*D Post-processing (includes MRI/CT/US/Mamo/NM modalities)	٣٥
۲	Orthopedic	۲.
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	١

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \'\'\' growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per ° years Performed/ site	Total No. of Diagnostic Workstations per ° years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with Y CDs/site per * years/ site	F-Total No. of Film Digitizer per ° years / site
,	W	Khulais Hospit- (% beds) - (has no PACS/RIS)	Y٣,٨٩٦	X-ray + CT + US	Connection To central solution directly	119,54.	•	١.	1°x YMP	,	,
۲	Wi	Al-Kamel General Hospital-(° · beds) - (has no PACS/RIS)	۸٤,١٥٩	X-ray	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	£ Y • , V 9 0	۱x ۱MP	٦	YX YMP	,	,
٣	Wi	Ajyad Emergency Hospital-(° · beds) - (has no PACS/RIS)	9,5.1	X-ray + CT + US	Connection To central solution directly	٤٧,٠٠٥	YX ٦MP	٩	£x YMP	1	1
٤	Wi	Ibn Sina Recovery Hospital-(۱° · beds) - (has no PACS/RIS)	11,757	X-ray + US	Connection To central solution directly	٥٨,٢٣٠	YX ۱MP	١.	1.x MP	1	1
٥	Wi	Haram Emergency Hospital-(° · beds) - (has no PACS/RIS)	0,	X-ray + US	Connection To central solution directly	۲٥,٠٠٠	YX ¬MP	٦	£x YMP	1	1
٦	W	AlShumaisi Hospital-(° · beds) - (has no PACS/RIS)	1,7	X-ray	Connection To central solution directly	۸,۰۰۰		۲	10 X 1 MP	•	•
٧	Wi	Mina AlWadi Hospital (has no PACS/RIS)	۲,۰۰۰	X_ray,C_Arm, US,CT	Connection To central solution directly	1.,	•	٤	Y x Y MP	•	•
٨	Wi	Arafat General Hospital (has no PACS/RIS)	۲,۰۰۰	X_ray,US	Connection To central solution directly	1.,		٣	' x ' MP	•	•





					•						
٩	Wi	East Arafat Hospital (has no PACS/RIS)	۲,۰۰۰	X_ray,US,CT	Connection To central solution directly	1.,		٤	Y x Y MP		•
١.	Wi	Mina Emergency Hospital(has no PACS/RIS)	۲,۰۰۰	X_ray,US,CT, C-Arm, Flurscopy	Connection To central solution directly	1.,		٥	Y X Y MP	•	
11	Wi	Mina AlJisr Hospital(has no PACS/RIS)	۲,۰۰۰	X_ray,US	Connection To central solution directly	1.,		٣	1 x 1 MP		
١٢	Wi	Jabal Haram Hospital(has no PACS/RIS)	۲,۰۰۰	X_ray,US	Connection To central solution directly	1.,		٣	1 x 1 MP		٠
١٣	W	Mina Shara Jadid Hospital(has no PACS/RIS)	۲,۰۰۰	X_ray,US	Connection To central solution directly	1.,		٣	' x ' MP	•	
١٤	Wı	Noumera Hospital(has no PACS/RIS)	۲,۰۰۰	X_ray,US	Connection To central solution directly	1.,		٣	1 x Y MP	•	•
		W1 Cluster ,existing PACS/RIS							7_		
10	Wi	King Abdullah Medical City (Specialist)- (ood beds)- Agfa- PACS/RIS	94,40.	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	£ 1, 70.	YY x "MP, \ x \ MP, existed + \ x \ \ MP	existed	∘• New YMP	,	,
11	Wi	King Faisal Hospital (*** beds)- GE- PACS/RIS	97,	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٤٦٥,٠٠٠	1 X DWS with two 2 MP monitor Y X DWS with 1 MP monitor 11 X DWS with two 1 MP monitor Existed	existed	Y X RWS with E MP Monitor Y X RWS with Y MP Monitor Y X RWS with Y MP Monitor existed	,	,
17	Wi	King Abdulaziz Hospital - (*** beds)- GE- PACS/RIS	110,	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٥٧٥,	Y X DWS with two e MP monitor Y X DWS with H MP monitor Y X DWS with two N MP monitor Existed	existed	Y X RWS with E MP Monitor  Y X RWS with Y MP Monitor  Y X RWS with Y MP Monitor  existed	,	,
14	Wi	Hera General Hospital (۲۷۹ beds)- philips- PACS/RIS	۸٥,٠٠٠	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	٤٢٥,٠٠٠	' x °MP, " x "MP (Black & white), ' x "MP (Color), ' x "MP (Black & white), ' x "MP (Color), + New " x "MP (Multimodalities)	existed + 1.	r. x YMP existed	,	,
١٩	Wi	Al-Noor Specialist Hospital- (°·· beds)- GE- PACS/RIS	۲۰۸,۰۰۰	X-Ray ,CT, MRI, US, mamo, BMD, Fluoroscopy, etc.	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	1,	Y X DWS with YMP  R X DWS with YMP  Y X SWS Y MP  existed + £ x R  MP	A. x existed	Y X Y MP existed + Y X YMP New	,	,
۲.	Wi	Maternity & Children's Hospital-Makkah- (°••	9.,	X-Ray ,CT, MRI, US, mamo, BMD,	Have local PACS/RIS with Medium size of storage/server on site with connection to	٤٥٠,٠٠٠	1 X DWS with two 2 MP monitor	7.9	۱۰ X RWS with £ MP Monitor	1	,





beds)- GE- PACS/RIS		Fluoroscopy, etc.	central directly	solution		Y X DWS with Y MP monitor YY X DWS with two Y MP monitor existed	NY RWS with Y MP Monitor NY RWS with N MP Monitor existed	
Total No. of Exams cross Cluster W	•				٤,٢٠٠,٢٦٠			

		W\ Breast	Cancer Screening	g Data		
#	Hospital Name	PACS Yes/No	Total Number of scanned examed per Year	Total Number of scanned examed per • Years	Total Number of breast cancer screening PC & scanner per or Years	Total Number of DICOM Worklist Gateway per ° Years
١	Hera General Hospital (۲۷۹ beds)	Yes Philips	170.	770.	١	١
۲	King Abdullah Medical City (Specialist)- (** beds)	Yes Agfa	170.	770.	,	1
٣	King Faisal Hospital (*** beds)	Yes GE	170.	770.	,	١
٤	King Abdulaziz Hospital - (*** beds)	Yes GE	170.	770.	,	1
٥	Al-Noor Specialist Hospital- (*** beds)	Yes GE	170.	770.	1	,
٦	Maternity & Children's Hospital Makkah- (°·· beds)-	Yes GE	170.	770.	,	,
		Total	٧,٥٠٠	٣٧,٥٠٠	This number will	grow ۱۰% per year





Hospital	W <sup>۲</sup> Beds	No.	HIS only	HIS & PACs	HIS Vendor	P	ACS Vendor
	>1	١		١	۱ - Oasis	١	۱ - Sectra
	7	٣	١	۲	۱ - Intersystems ۲ - Oasis	۲	Y - GE
WY	<٢٠٠	٤	٤		Y - MiniHIS Y - ACS Y - CentralizedHIS		
	Totals	٨	٦٣٪	٣٨%		٣٨٪	

No.	Required Extra software concurrent licenses on Cluster W <sup>+</sup> Level Description	Qty (Concurrent Licenses)
1	"D Post-processing (includes MRI/CT/US/Mamo/NM modalities)	10
۲	Orthopedic	١.
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or un-limited user names by seat	٧٥

No.	Cluster #	Name of Hospital	Total Volume of Studies performed per year with \.\'\'\' growth	Modality types per site	Recommendation to Hospital	Total No. of Studies per o years Performed/site	Total No. of Diagnostic Workstations per • years/ site	Total No. of RIS Pcs	Total No. of Clinical View Workstations per ° years/ site	Total No. of CD Burner with  CDs/site per o years/ site	F-Total No. of Film Digitizer per ° years / site
		WY Cluster - Small to medium Hospitals has no RIS/PACS:									
١	WY	Rabigh General Hospital-(\frac{1}{\text{r}}\text{ beds}) - (has no PACS/RIS)	15,779	X-ray, CT, US , Floro, BMD	Connection To central solution directly	٧٣,١٤٥	TX ¬MP	11	''x 'MP	1	,
۲	WY	Al-Amal Hospital-(**) beds) - (has no PACS/RIS)	1.,	X-ray	Connection To central solution directly	٥٠,٠٠٠	•	٣	źx YMP	1	١
٣	WY	Mental Health Hospital-(۱۲۰ beds) - (has no PACS/RIS)	A£Y	X-ray	Connection To central solution directly	٤,٢١٠		۲	°x YMP	1	,
٤	WY	Children and Maternity Hospital in Aziziyah-(۱۰۰ beds) - (has no PACS/RIS)	1., 444	X-ray, CT, US, Mamo, Floro,	Connection To central solution directly	01,79.	Yx ¬MP, ¬x	١٣	1.x MP	,	1
٥	WY	Jeddah Eye Hospital-(^o beds) - (has no PACS/RIS)	۲,۸۰۲	X-ray,	Connection To central solution directly	15,.1.	•	٣χ	£x YMP	1	١
		WY Cluster ,existing PACS/RIS									
٦	WY	King Fahad Hospital -(YYY beds)- Sectra- PACS/RIS	Y10,1£Y	X-ray, US, Mamo, CT, MRI		1,.٧0,٧1.	I'X TMP, YX IMP, YX AMP, YX I'MP existed New, IX IMP	existed	^x YMP existed	,	1





٧	WY	King Abdullah Medical Complex (*** beds) Jeddah GE-PACS/RIS	٧٣,٩٨٣	X-ray, CT, MR, US, NM, Angio,	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	~79,910	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Y 1	New: Yo	,	,
٨	WY	Children and Maternity Hospital in Msaeidiah- (۲۰۶ beds)- GE-PACS/RIS	17,557	X-ray, MRI, MAMO, US, BMD, Floro		۸۷,۲۳۰	1x °MP £x "MP 1x 1MP 1x 1MP x YMP existed , NEW: 1x °MP, £x 1MP	۳۰ New: ۱۰	New: 10	,	,
		Total No. of Exams cross Cluster W <sup>۲</sup>	T£0,177			1,770,71.					

	\	NY Breast Canc	er Screening Data	a		
4	Lie onital Name	PACS Yes/No	Total Number of scanned exam per	Total Number of scanned exam per	Total Number of breast cancer screening PC & scanner per	Total Number of DICOM Worklist Gateway per  • Years
#	Hospital Name	PACS TES/NO	rear	Years	Years	rears
١	Children and Maternity Hospital in Aziziyah-(۱۰۰ beds)	No	170.	770.	1	,
۲	King Fahad Hospital -(Y)) beds)	Yes Sectra	170.	770.	1	,
٣	Children and Maternity Hospital in Msaeidiah- (४०६ beds)	Yes GE	170.	770.	١	,
		Total	٣,٧٥.	11,401	This number will gro	ow ۱۰% per year

Hospital	W° Beds	No.	HIS only	HIS & PACs			PACS
	>7	١	١	•	۱- Oasis		
W°	Y	۲		۲	۱ – icare ۱- Oasis	۲	۱ - GE ۱ - Agfa
	<٢	11	۲	•	Y- Oasis		
	Totals	١٤	44%	1 £ %		1 £ %	

No.	Required Extra software concurrent licenses on Cluster W <sup>o</sup> Level Description	Qty (Concurrent Licenses)
١	TD Post-processing (includes MRI/CT/US/Mamo/NM modalities)	10
۲	Orthopedic	10
٣	Concurrent Voice Recognition Licenses with un-limited profiles and or limited user names by seat un-	٦٥

No.	Cluster	Name (	f Total Volume of	Modality types per	Recommendation to Hospital	Total No. of Studies		Total No. of Clinical View		F-Total No. of
	"	Поэрна	Studies performed	Sito	το ποσρικαι	per ° years Performed/	Workstations	Workstations per o years/	Burner	Film Digitizer
			per year						CDs/site	per °





		T					<b>.</b>	T	1	1	
			with \.\% growth			site	site		site	per o years/ site	years / site
		W° Cluster - Small Hospitals has no RIS/PACS:									
, ,	W٥	Kherma General Hospital in Ta'if -(° beds) - (has no PACS/RIS)	14,411	Xray,US,CT	Connection To central solution directly	19,77.	1 x 1MP wide with second RIS Monitor	1. (A aside modalities and Y at reception and working area	1° x single f	1	,
Υ \	W°	Ranyah General Hospital-(° ' beds) - (has no PACS/RIS)	19, VOY	Xray,US,CT	Connection To central solution directly	9.4,77.	Y (IMP wide with second RIS Monitor)	9 (Y aside modalities and Y at reception and working area	1° (single Y	,	1
٣١	W°	Dholm General Hospital-(° · beds) - (has no PACS/RIS)	9,700	Xray,US	Connection To central solution directly	٤٦,٢٧٥	\ (\text{\text{\text{IMP} wide}}\) with second RIS Monitor)	7 (£ aside modalities and Y at reception and working area	19 (single Y MP)	,	1
٤	W°	Maysan BalHareth General Hospital -(° · beds) - (has no PACS/RIS)	1.,	Xray,US	Connection To central solution directly	0.,	\ (\text{\text{\text{IMP wide}}}\) with second RIS Monitor)		۱۵ (single ۲ MP)		
0 \	W٥	Torbah General Hospital-(° + beds) - (has no PACS/RIS)	۳٦ <sub>,</sub> ٧٢٠	Xray,CT,US,	Connection To central solution directly	124,1	\ (\text{\text{\text{IMP} wide}}\) with second RIS Monitor)	1 · (^ aside modalities and ^ at reception and working area	۱۰ (single ۲ MP)	1	,
٦١	W°	Al-Qurei Bani Malek General Hospital-(° ' beds) - (has no PACS/RIS)	١٣,٨٣٦	Xray ,US	Connection To central solution directly	79,11.	\ (\text{\text{\text{IMP} wide}}\) with second RIS Monitor)	τ (٤ aside modalities and τ at reception and working area	Y (single Y MP)	,	1
٧	W∘	Sehen Bani Saad General Hospital-(° ' beds) - (has no PACS/RIS)	0,28.	Xray,US	Connection To central solution directly	۲۷,10۰	\ (\text{\text{\text{IMP}} wide with second RIS Monitor)}	£ (Y aside modalities and Y at reception and working area	۱۷ (single ۲ MP)	1	1
٨	Wo	Al-Moyah Hospital-(° ' beds) - (has no PACS/RIS)	۸,۰۷۳	Xray,US,CT	Connection To central solution directly	٤٠,٣٦٥	\ (\text{\text{\text{IMP}}}\ wide with second RIS Monitor)	° (£ aside modalities and 1 at reception and working area	۱۸ (single ۲ MP)	1	1
٩ /	Wo	Qia Hospital in Ta'if-(° · beds) - (has no PACS/RIS)	17,187	Xray,US,CT	Connection To central solution directly	۸٥,٦٨٥	\ (\text{\text{\text{IMP}} wide with second RIS Monitor)}	Y (a aside modalities and Y at reception and working area	^ (single Y	,	1
١. ١	W٥	Almehani General Hospital Taif -(° beds) -	1	Xray,US	Connection To central solution directly	0,	\ (\text{\text{\text{IMP} wide}}\) with second RIS Monitor)	° (" aside modalities and " at reception	'V' (single Y' MP)	١	١





		(has no PACS/RIS)						and working area		<b>*</b>	
11	W°	Mental Health Hospital-(٦٧٠ beds) - (has no PACS/RIS)	10	Xray,US	Connection To central solution directly	٧,٥٠٠	\ (\text{\text{\text{MP wide}}}\) with second RIS Monitor	£ (" aside modalities and \ at reception and working area	° x YMP		
١٢	W°	Children's Hospital in Taif- (۱۲・ beds) - (has no PACS/RIS)	14,440	Xray,CT,US	Connection To central solution directly	19,170	\ (\forage MP wide with second RIS Monitor)	9 (Yaside modalities and Y at reception and working area	Yo (single Y MP)	1	1
		W° Cluster ,existing PACS/RIS									
١٣	W°	King Faisal Hospital- (°·· beds)- GE- PACS/RIS	187,9 EV	Xray, US, CT, MRI, Mamo, BoneDensty, Fluoroscopy,Angio	Have local PACS/RIS with Medium size of storage/server on site with connection to central solutiondirectly	11 <i>£</i> ,۷٣٥	X MP, Y MP, Y MP existed with second or third RIS Monitor existed + New Y X MP new with second or third RIS Monitor	existed+	Yo Existed + Yo Need	,	,
١٤	Wo	King Abdulaziz Specialist Hospital (°··beds)- Agfa- PACS/RIS	11.,٧٣٦	Xray, US, CT, MRI, Mamo, BoneDensty, Fluoroscopy,Angio	Have local PACS/RIS with Medium size of storage/server on site with connection to central solution directly	004,14.	T X " MP, Y x  MP existed with second or third RIS Monitor existed + New - X  MP new with second or third RIS Monitor	o existed existed+	£·XY MP		1
		Total No. of Exams cross Cluster W°	٣٩ <i>٨</i> ,٠٧٧			1,990,700					

		W° Cluster	<b>Breast Cancer</b>	Screening Data		
#	Hospital Name	PACS Yes/No	Total Number of scanned exam per Year	Total Number of scanned exam per of Years	Total Number of breast cancer screening PC & scanner per o Years	Total Number of DICOM Worklist Gateway per P
1	King Faisal Hospital - (or beds)	Yes GE	170.	770.	١	١
۲	King Abdulaziz Specialist Hospital (*** beds)	Yes Agfa	170.	770.	,	١
		Total	Yo	17.0	This number will	grow \./. per year





ايضا يقوم المقاول بتوفير الحلول المتكاملة على النحو التالي:

- يجب على مقدم العرض أن يضمن بأن الأنظمة والنظم الفرعية والروابط والمعدات يمكن الاعتماد علها بما فيه الكفاية إما ذاتياً أو من خلال توفير النسخ الاحتياطية.
  - يجب أن يكون النظام جاهزاً للعمل ومتوفراً للمستخدمين على مدار الساعة وطوال أيام السنة (٢٤\٧١٥٥).
    - يجب ألا يكون عمل وأداء النظام لأي شهر في السنة أقل من ٩٩.٩٩%.
  - يجب تزويد النظام بميزة الاسترداد الذاتي وإعادة التشغيل لضمان أقل زمن توقف ليحقق نسبة الـ ٩٩.٩٩ %.
    - يجب ألا يتسبب الخلل في البرمجيات في النظام الفرعي بخلل كلي في النظام.
    - يجب أن يكون تصميم النظام بطريقة لا يتسبب فها أي عطل في وقف تشغيل النظام.
  - يجب توسعة قدرة الخوادم الحالية لتغطى احتياج المستشفى او المركز المناط تركيب النظام به لمدة (٥) خمسة سنوات.
    - ضمان استمرارية العمل في المواقع في حال تعطل الربط مع النظام المركزي او ما يسمى (Business Continuity).

وبناء على المعلومات اعلاه وما تم ذكره بالكراسة للمواصفات المطلوبة من المقاول، الجدول التالي سيمكن المقاول من تقديم سعر الفحص الواحد شاملا جميع التطبيقات والمعدات لكل تجمع صعي على حده كما هو موضح بالجداول ادناه:





	Service Name *	Total Number of exams per 5 years	
С	luster # E1		
1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.	2,457,040	
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	





	C- Data Migration of existing RIS/PACS	Siemens	
		GE Healthcare	
		Carestream	
		Philips	
3			
		Agfa	
		Agia	
		Sectra	
		0000.0	
		Fujifilm	





	Service Name *	Total Number of exams per 5 years	Unit Price Per exam SR	Total Price SR
(	Cluster # E2			
1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.			
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.			





	Service Name *	PACS Vendor	
	C- Data Migration of existing RIS/PACS	Siemens	
		GE Healthcare	
		Carestream	
3		Philips	
		Agfa	
		Sectra	





		Fujifilm	
	1	T	
	Service Name *	Total Number of	
	00.1.00.1.00.1	exams per 5 years	
C	Cluster # E3		
	A- Radiology Study (could be X-Ray, CT, MRI,	874,500	
	CR, C-Arm, US, Bone Density, Fluoroscopy,		
	Angiography, mammogram, PETCT, etc.)		
	including front end HW like workstations,		
	business continuity servers, etc. and back end		
1	software ,applications and necessary licenses		
	, as per Qty mentioned in total consumption.		
	This includes		
	systems/Licenses/Labor/Upgrade/Update/Se		
	rvice and Support to meet the Required SLA.		





2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	
	C- Data Migration of existing RIS/PACS	Siemens	
		GE Healthcare	
3		Carestream	
		Philips	





		Agfa		
		Sectra		
		Fujifilm		
	Control Nove W	Total Number of exam	ns	
	Service Name *	per 5 years		
CI	luster # C1			





1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.	3,825,000	
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	
3	C- Data Migration of existing RIS/PACS	Siemens	
		GE Healthcare	





	Carestream	
	Philips	
	Agfa	
	Agia	
	Sectra	
	Fujifilm	
Service Name *	Total Number of exams per 5 years	
	per 3 years	





C	luster # C2		
1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.	2,227,450	
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	
3	C- Data Migration of existing RIS/PACS	Siemens	





		GE Healthcare	
		Carestream	
		Carestream	
		Philips	
		A - f -	
		Agfa	
		Sectra	
		Fujifilm	
	Service Name *	Total Number of exams per	
	50.110.110.110	5 years	
Cl	luster # S1		
1			





1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.	2,665,000	
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	
	C- Data Migration of existing RIS/PACS	Siemens	
3		GE Healthcare	
		Carestream	





		Philips	
		Agfa	
		Sectra	
		Fujifilm	
	Service Name *	Total Number of exams per 5 years	
		,	
Cl	uster #S2		





			T	
	A- Radiology Study (could be X-Ray, CT, MRI,	2,934,500		
	CR, C-Arm, US, Bone Density, Fluoroscopy,			
	Angiography, mammogram, PETCT, etc.)			
	including front end HW like workstations,			
1	business continuity servers, etc. and back end			
_	software ,applications and necessary licenses			
	, as per Qty mentioned in total consumption.			
	This includes			
	systems/Licenses/Labor/Upgrade/Update/Se			
	rvice and Support to meet the Required SLA.			
	B- Hosting Location (Space			
	/Rack /Power/Operation/Support/ Back-end			
	Hardware/Operating systems/local			
2	bandwidth at center to cover the required			
	SLA, etc.) in a certified Tier3 level hosted in			
	Saudi. All technical requirements in this RFQ			
	to be part of delivery of such service.			
		PACS Vendor		
	Service Name *			
	C- Data Migration of existing RIS/PACS	Siemens		
	e- bata wilgration of existing May 1 Acs	Sicilicits		
		GE Healthcare		
3				
		Carestream		
		Calesticalli		





		Philips		
		Agfa		
		Sectra		
		Fujifilm		
_				
	Service Name *	Total Number of exams per 5 years		
C	luster # W1		,	
	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.)			
1	including front end HW like workstations, business continuity servers, etc. and back end			
	software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes			





	systems/Licenses/Labor/Upgrade/Update/Se		
	rvice and Support to meet the Required SLA.		
	B- Hosting Location (Space		
	/Rack /Power/Operation/Support/ Back-end		
	Hardware/Operating systems/local		
2	bandwidth at center to cover the required		
	SLA, etc.) in a certified Tier3 level hosted in		
	Saudi. All technical requirements in this RFQ		
	to be part of delivery of such service.		
		PACS Vendor	
	Service Name *		
	C- Data Migration of existing RIS/PACS	Siemens	
		GE Healthcare	
3			
		Carestream	
		Philips	
		_	





		Agfa	
		Sectra	
		Fujifilm	
		Total Number of exams	
	Service Name *	per 5 years	
CI	luster # W2		
	19501 // 172		
1			





1	A- Radiology Study (could be X-Ray, CT, MRI, CR, C-Arm, US, Bone Density, Fluoroscopy, Angiography, mammogram, PETCT, etc.) including front end HW like workstations, business continuity servers, etc. and back end software ,applications and necessary licenses , as per Qty mentioned in total consumption. This includes systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.	1,725,610			
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.				
	Service Name *	PACS Vendor	Unit Pı	rice Per Cluster data migration SR	Total Price SR
3	C- Data Migration of existing RIS/PACS	Siemens GE Healthcare			
		Carestream			





Philips	
Agfa	
Agia	
Sectra	
Euiifilm	
Fujifilm	

	Service Name *	Total Number of exams per 5 years	Unit Price Per exam SR	Total Price SR
				Cluster # W5
	A- Radiology Study (could be X-Ray, CT, MRI,	1,990,385		
	CR, C-Arm, US, Bone Density, Fluoroscopy,			
	Angiography, mammogram, PETCT, etc.)			
1	including front end HW like workstations,			
	business continuity servers, etc. and back end			
	software ,applications and necessary licenses			
	, as per Qty mentioned in total consumption.			
	This includes			





	systems/Licenses/Labor/Upgrade/Update/Se rvice and Support to meet the Required SLA.		
2	B- Hosting Location (Space /Rack /Power/Operation/Support/ Back-end Hardware/Operating systems/local bandwidth at center to cover the required SLA, etc.) in a certified Tier3 level hosted in Saudi. All technical requirements in this RFQ to be part of delivery of such service.		
	Service Name *	PACS Vendor	
	C- Data Migration of existing RIS/PACS	Siemens	
3		GE Healthcare	
		Carestream	





	Philips	
	Agfa	
	Sectra	
	Fujifilm	





Proposals shall include pricing for unlimited or concurrent licenses for all applicable solution components. Licensing models and conditions shall be described in detail for all components such as but not limited to as per above mentioned table:

- Repository and Central PACS services.
- o PROXY services on local sites as well as on regional / zone level.
- XDS Registry and services (including ATNA repository).
- TRS shared Central RIS services.
- VNA and viewer.
- Sites components and services (i.e. diagnostic workstations, clinical view stations, etc. as per consumption table).
- Proposals shall include all applicable integration costs for all the sites in scope (software, hardware, professional services, etc.) as per above-mentioned table.
- Proposals shall include storage requirements for o years, including requirements for redundancy and fault tolerance as per above-mentioned table.
- Proposals shall include any applicable hardware and software for shared centralized solution components as well as for end users (i.e. servers, storage, diagnostic quality workstations, other end user hardware and software) as per above mentioned table.

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Refer to the Conceptual Reference Architecture in the Appendices.





المواصفات الفنية للمشروع:

#### PROJECT OBJECTIVES

The key objectives of this project are to acquire and deploy the solutions described herein as part of the national e-Health infrastructure, in order to achieve sharing of diagnostic imaging information for all patients across the Kingdom regardless of location, and to put in place a flexible National Tele-radiology infrastructure to ensure the availability of radiology services to any site regardless of its location and size in a timely and cost effective manner.

## Diagnostic Imaging Repository Solution (DIRS) and CENTRAL PACS

The concept of a Diagnostic Imaging Domain Repository Solution (DIRS) aims to provide authorized healthcare providers with access to a secure and comprehensive repository of all images, reports and other relevant multi-media content for all patients, in other words, a longitudinal view of the patient record which contains all relevant DI information regardless of its origin or the location from which it is being accessed. And the central PACS aims to process and manage those images (including "D) associated with separate Central RIS and Tele-Radiology Services. DIRS and Central PACS could be in one solution or two separate solutions. The solution will be deployed in multi inter-connected regional repositories at regional data centers sharing a national XDS registry component which called Cluster/Clusters.

This solution will enable the MOH achieve the following objectives:

- To provide simplified and secure access to a longitudinal patient record for diagnostic imaging information (all relevant prior images, reports, voice dictation, etc.) to all potential consumers (PACS/RIS, EMR, HIS, Viewers);
- To leverage the DIRS infrastructure for other types of related contents such as images from Pathology, Cardiology, Dental, and cytology or other clinical domains.
- To leverage economies of scale and reduce costs thought a consolidated long-term archive infrastructure and enhance the pay per service.
- To leverage hospitals without HIS to engage with DIRS/TRS to utilize PACS/RIS for daily work electronically.
- To enable access to the patient electronic record to enable timely patient care while maintaining privacy and security standards.
- To establish common interoperability requirements and interface standards (ex: DICOM, HL<sup>V</sup> and IHE) allowing flexible procurement choices at the local PACS/RIS level while ensuring interoperability across sites and regions.
- To establish standardized naming conventions, tools and procedures for data normalization, in order to allow data consumers to easily query the DIRS when





searching for relevant prior studies, originally archived by disparate PACS/RIS operational systems and or cross the multi-Clusters.

- To put in place the required support processes, infrastructure and expertise to assist local sites (Hospitals, radiology centers and other relevant health care facilities) in their integration to the DIRS solution.
- To support the consolidated archival an sharing of images acquired at local sites via any of the following modality types: Mammography, Invasive radiology, Dental radiology, Computed tomography (CT), CT angiography, Fluoroscopy, Angiography, MR, Nuclear medicine, PETCT, Ultrasound, ECHO, X-ray, BMD. And support <sup>rD</sup> postprocessing.
- To support the consolidated archival and sharing of diagnostic imaging reports.
- To support cross diagnostic image reporting based on specialty or any other factors.
- To support future expansion for the archival and sharing of: Discharge reports; Medical photography images; Histopathology images and reports; Cardiology images and reports; Ophthalmology images and reports; Oncology images and reports.
- To enable information consumers to query and retrieve information via standardized interfaces, and to offer web-based multi-media viewing capabilities (images, reports, voice and video).

# Central RIS AND Tele-radiology solution

The concept of Central RIS aims to manage the radiology department workflow (registration, ordering in absence of HIS, scheduling, manage the DICOM worklist and reporting) cross Cluster hospitals while a Tele-radiology Solution (TRS) aims to put in place a shared RIS/PACS platform with specialized capabilities to enable remote reporting by radiologists/specialists independent of the location where images are acquired, and, to enable the optimal allocation of available resources to address reporting workloads across locations.

This solution will particularly address the needs of small remote public hospitals, which have the capability to acquire images locally but lack on-site reading and diagnostic resources. However, larger health centers will also benefit by being able to share resources and information with other locations across the Kingdom. The solution will be deployed in each interconnected instances at regional data center and or Cluster/Clusters data center.

This solution will enable the MOH achieve the following objectives:

- To enable larger centers to medium existing PACS/RIS to tap into radiologist working at small/remote sites that have part-time availability to report for other locations, hence,





allowing optimal resource allocation across sites and faster and more cost effective service delivery.

- To enable medium centers to tap into radiologist working to help in workload balance for regular high volume of un-reported images such as plane x-ray.
- Through the integration with the DIRS, to enable remotely reporting radiologists to do comparative analysis of new images against any relevant priors done anywhere else in the Kingdom.
- To enable remote viewing/sharing of reported or reporting-in-progress studies, among radiologists/specialists at multiple locations which need to collaborate to finalize a diagnostic.
- To enable the flexible management of orders and work lists to optimize the utilization of available resources (modalities, technologists, radiologists, specialist, transcriptionist) across locations.
- To enable any public radiology center in the Kingdom to flexibly augment its capacity to address peak workload situations, by quickly and efficiently allowing remotely located contracted resources (may be foreign-based resources) to report on studies on its behalf.

## VNA and viewer

The concept of Vendor Neutral Archive Solution (VNA) is seamless point-of-care data capture and storage for all DICOM and NON-DICOM data in its original format cross-region hospitals.

The VNA solution allows MOH cross the Cluster/Clusters to gain independence from the vendor neutral archive solution that integrates with any PACS, RIS, HIS, EHR and EMR.

The VNA can store and provide imaging data from, and to any, endpoint in the healthcare enterprise. And provide universal viewer regardless the source of data.

This solution will enable the MOH achieve the following objectives but not limited to:

- Support storing multiple local patient ID's for a single patient in its database.
- Interface with an enterprise master patient index (eMPI) solution.
- Accommodate both DICOM & Non-DICOM data.
- Support DICOM WADO.
- Support DICOM and non DICOM routing
- Allow for granular control of data, security logs and its retention.
- Support all IHE profiles (PIX/PDQ, XDS, IOCM, JpegY++, KIN, ,GSPSetc.).
- Store DICOM images from multiple PACS.
- Store DICOM images from multiple sites.
- Support multiple patient ID / MRN schemes handled.
- Providing the changed studies back to the originating site / system.
- Support Image Storage be delivered as a cloud-based service.





- Provide an Enterprise viewer cross the region including zero footprint.
- Provide an interoperable image sharing solution (DICOM and non-DICOM).
- Support pre- and post-fetching.
- Provide an automated policy based deletion process.
- Support load balancing between regional VNA and National VNA...
- Support handle de-centralized electronic object acquisition.
- Support search capabilities (non-Admin).
- Support XDS.
- Seamless Integration cross multi Clusters from different vendors or providers.

#### PROJECT SCOPE OF WORK

The phases described below are based on the reference conceptual architecture, uses cases and requirements described on the Informational Appendices in this document.

In summary, Bidders are expected to deploy the multi/several solutions in scope at designated data center(s), inter-connect both solutions ensuring stability, reliability and performance, and progressively deploy the new capabilities across the sites and users in scope. Both solutions will be deployed in multi inter-connected instances at regional data centers/cluster data center (or could be one data center, or <sup>۲</sup>, etc.). The hosting itself is out of scope in the project rather than it is all in scope and BOQ with volume size is not real but estimated as mention in the RFQ and or will be in the future RFP with more specific details.

Sites and users in scope for each phase are described in the Sites and users in Scope section further in this document.

# Phase \a

#### SCOPE:

- Deployment and configuration of the Central RIS and Tele-radiology Solution (TRS) with workflow engine at regional data center(s)/ Cluster data center in zone #\ for example.
- Integration and deployment for sites and users in phase 17.

This deliverable shall include the following elements:

- Planning and design for end-to-end deployment of the solution.
- Detailed workflow design and clinical usage scenarios which will drive system configuration (with HIS & without HIS).
- Change management, communications and training: planning and design.
- Installation and configuration of the primary instance of the centralized RIS and Tele-Radiology Solution (TRS) at a designated data center)/ Cluster data center in zone #\(^1\) for example.

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Y See section Y. € for uses and sites in scope





- Installation and configuration of redundant instances for fault tolerance and high availability at designated data center(s). Comprehensive testing of service disruption scenarios.
- Integration of Central RIS and TRS to modalities and ADT systems at remote sites (with HIS & without HIS).
- Deployment, configuration and testing of order capture and image transfer capabilities from remote sites.
- Deployment, configuration and testing of work list management and workflow components.
- Deployment, configuration and testing of viewing and reporting components.
- Comprehensive testing of clinical an administrative use cases.
- Comprehensive change management, communication, and training at each participating site for clinical, administrative and support staff.
- Operational support and ongoing maintenance for integrated sites and deployed solution capabilities.

## Phase 1b

## SCOPE:

- Deployment, configuration and the DI Repository Solution (DIRS) and Central PACS at regional data center(s) // Cluster data center in zone #\ for example.
- Pilot implementation: bi-directional integration of DIRS and Central PACS to existing RIS/PACS from multiple vendors; Or replacement
- Clinical and technological demonstration of the solution's ability to meet the RFQ objectives and requirements.

This deliverable shall include the following elements:

- Planning and design for end-to-end deployment of the Central RIS and TRS and a pilot bi-directional integration to a multi-vendor cohort of RIS/PACS.
- Detailed workflow design and clinical usage scenarios which will drive system configuration (with HIS & without HIS).
- Change management, communications and training planning and design.
- Installation and configuration of the primary instance of the Repository Solution at a designated data center(s).
- Clinical and technological demonstration of bi-directional integration (archive/retrieval) to a cohort of multi-vendor RIS/PACS, in zone #\ for example or same vendor.





- Comprehensive change management, communication, and training at each participating site for clinical, administrative and support staff.
- Comprehensive testing of clinical an administrative use cases.
- Installation and configuration of redundant instances for fault tolerance and high availability at designated data center(s). Comprehensive testing of service disruption scenarios.
- Operational support and ongoing maintenance for integrated sites and deployed solution capabilities.

## Phase \C

- Deployment, configuration and the Vendor Neutral Archive (VNA) at regional data center(s) // Cluster data center in zone #\(^1\) for example.
- Pilot implementation: bi-directional integration of VNA to existing RIS/PACS, DIRS, Central PACS, Central RIS and TRS from multiple vendors or same vendor.
- Clinical and technological demonstration of the solution's ability to meet the RFQ objectives and requirements.

This deliverable shall include the following elements:

- Planning and design for end-to-end deployment of the DISR, Central PACS, Central RIS, TRS and a pilot bi-directional integration to a multi-vendor cohort of RIS/PACS.
- Detailed workflow design and clinical usage scenarios which will drive system configuration (with HIS & without HIS).
- Change management, communications and training planning and design.
- Installation and configuration of the primary instance of the Repository Solution at a designated data center(s).
- Clinical and technological demonstration of bi-directional integration (archive/retrieval) to a cohort of multi-vendor RIS/PACS, in zone #\) for example or same vendor.
- Comprehensive change management, communication, and training at each participating site for clinical, administrative and support staff.
- Comprehensive testing of clinical an administrative use cases.
- Installation and configuration of redundant instances for fault tolerance and high availability at designated data center(s). Comprehensive testing of service disruption scenarios.
- Operational support and ongoing maintenance for integrated sites and deployed solution capabilities.





## Phase Y

#### SCOPE:

- Integration of the Central RIS and Tele-radiology Solution (TRS) to the DI Repository Solution (DIRS) and Central PACS at regional data center(s) // Cluster data center in zone #1 for example;
- Integration of DIRS and Central PACS to existing RIS/PACS in scope in phase \( \cdot \).
- Deployment of new TRS capabilities to phases \( \gamma \) users.
- Integration and deployment of TRS capabilities to remote sites and users in phase τ.
- Integration and deployment of all with regional/Cluster/Clusters VNA & viewer.

This deliverable shall include the following elements:

- Planning and design for end-to-end integration of Central RIS and TRS to DIRS and Central PACS for archival and retrieval of information, including normalization of appropriate terminologies.
- Detailed workflow design and clinical usage scenarios which will drive system configuration.
- Change management, communications and training planning and design.
- Integration, configuration and testing of the primary instance of the centralized RIS and Tele-Radiology Solution (TRS) connected to the DIRS and Central PACS, for archival and retrieval of information with regional VNA & viewer.
- Configuration and testing of terminology management services of DIRS to enable standardized terminology for all studies originating from TRS.
- Comprehensive testing of clinical an administrative use cases. Archival and retrieval of information, including normalization of appropriate terminologies with regional/Cluster/Clusters VNA & viewer.
- Integration, configuration and testing of the redundant instances connected to the DIRS. Comprehensive testing of service disruption scenarios.
- Comprehensive change management, communication, and training at each participating site for clinical, administrative and support staff.
- Operational support and ongoing maintenance for integrated sites and deployed solution capabilities with regional/Cluster/Clusters VNA & viewer.

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 $<sup>^{\</sup>mathsf{r}}$  TRS integration to DIRS is new to phase  $^{\mathsf{t}}$  users of TRS





# Phase (moving to another zones/cluster/clusters and go on)

#### SCOPE:

- Central RIS ,TRS , DIRS and Central PACS infrastructure replication to data center(s) in zone/cluster #<sup>γ</sup> or <sup>γ</sup> or <sup>ε</sup> or <sup>ο</sup>:
- Regional/Cluster/Clusters VNA infrastructure replication to National VNA.
- Integration of DIRS and Central PACS to existing RIS/PACS in scope in phase τ or replace them in Phase τ.
- Integration and deployment of Central RIS and TRS capabilities to remote sites and users in phase <sup>τ</sup>.

This deliverable shall include the following elements:

- Planning and design for end-to-end solution replication and deployment of solution across participating sites and users.
- Detailed workflow design and clinical usage scenarios which will drive system configuration.
- Change management, communications and training planning and design.
- Installation and configuration of the any additional instances of the Central RIS and Tele-Radiology Solution (TRS) at a designated data center(s).
- Installation and configuration of additional redundant instances for fault tolerance and high availability at designated data center(s), if required. Comprehensive testing of service disruption scenarios.
- Integration of Central RIS and TRS to modalities and ADT systems at participating remote sites (with & without HIS).
- Deployment, configuration and testing of order capture and image transfer capabilities from remote sites.
- Deployment, configuration and testing of work list management and workflow components.
- Deployment, configuration and testing of viewing and reporting components
- Comprehensive testing of clinical an administrative use cases, including DIRS and Central PACS integration with VNA.
- Comprehensive change management, communication, and training at each participating site for clinical, administrative and support staff.
- Operational support and ongoing maintenance for integrated sites and deployed solution capabilities.



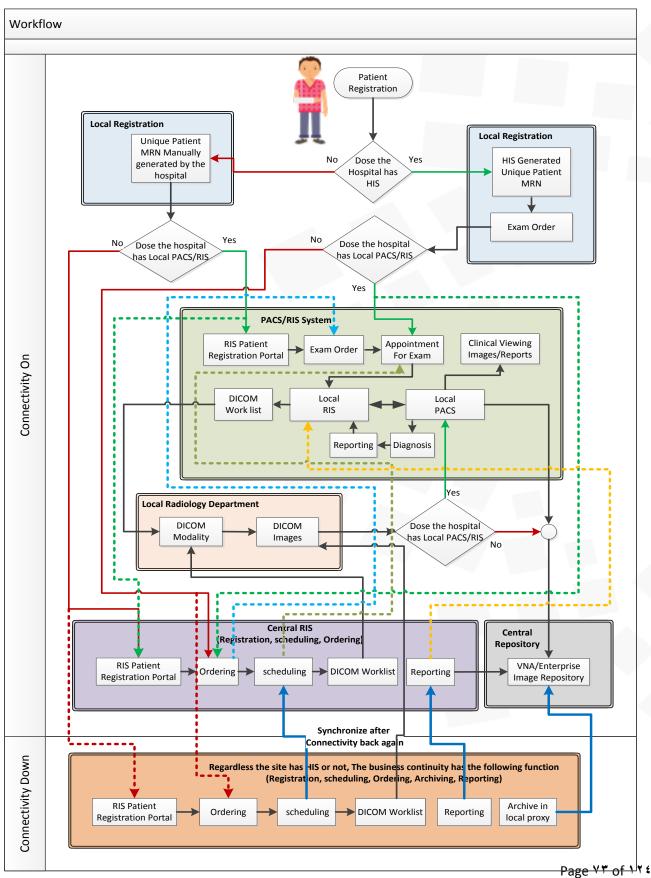


The following layout will Illustrate the main workflow that is available at MOH hospitals (regardless the size or location) where vendor to take in consideration during implementation those scenarios in their technical proposal:

- Patient arrives Hospital (could have HIS or not).
- If HIS is exist, the admission will be made on HIS, then radiology exam order on HIS too, but schedule on RIS.
- If there is no HIS, the admission and order will be made on Central RIS.
- And so on, the below layout is showing all possible scenarios with HIS/without HIS and or with existing RIS/PACS or there is no local RIS/PACS. Also will explain the business continuity scenarios too. Last but not least it will show the relation with DIRS/Central PACS, Central RIS, TRS and VNA.



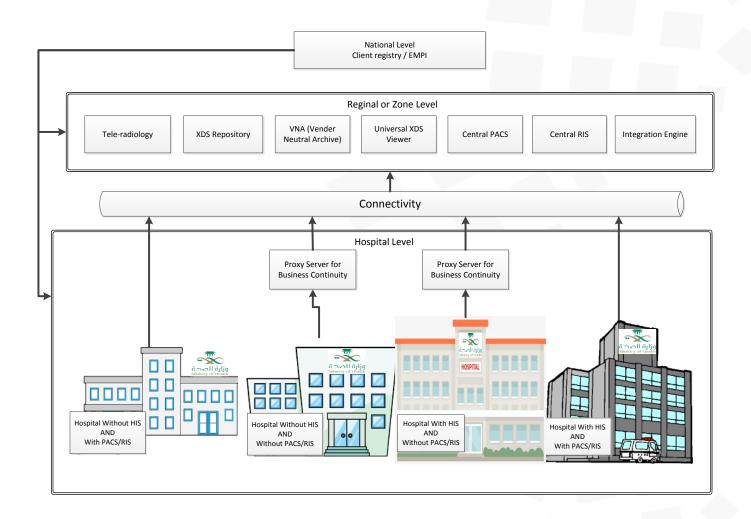








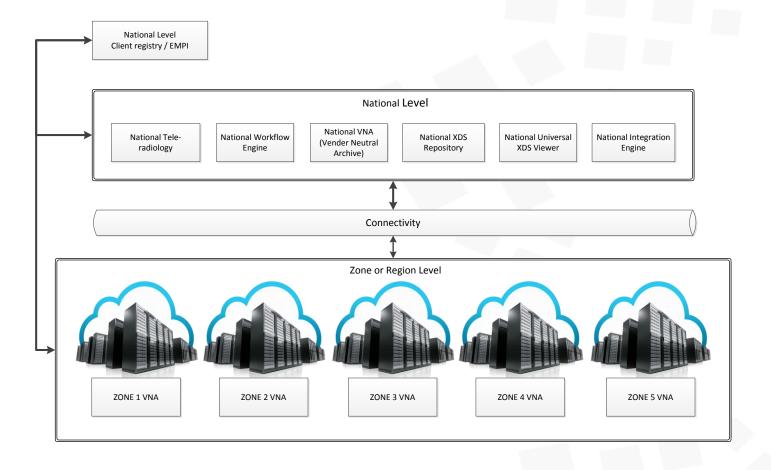
The following layout will Illustrate the main design that is targeted to be available at MOH regional level or zone/Cluster/Clusters level







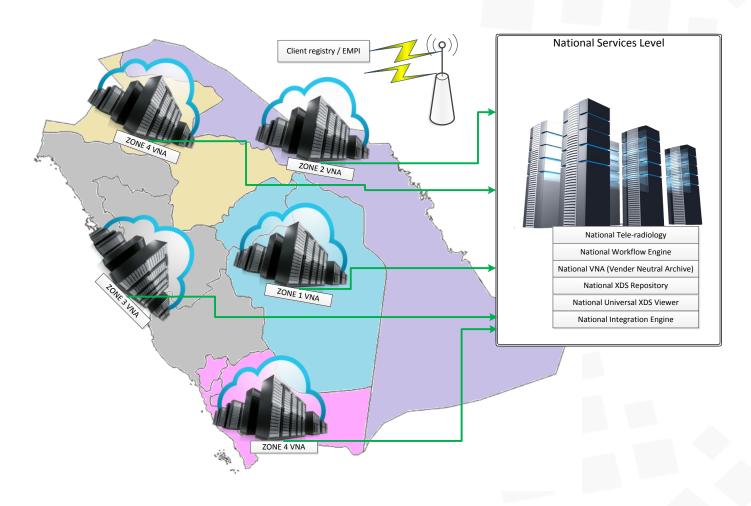
The following layout will Illustrate the main design that is targeted to be available at MOH between Regions or Zones or Cluster/Clusters







The following layout will Illustrate overall between zones based on geographical distribution cross the  $\,^\circ$  zones or regions







#### SITES AND USERS IN SCOPE

The information bellow is intended solely to assist Bidders in the preparation of proposals. To the best of MOH knowledge, the information provided is accurate in % % manner.

Sites in scope

# A- Central RIS and TRS

In the context of the Central RIS and TRS Images will be acquired at remote sites. Orders will be recorded for reporting via the TRS and images acquired locally will be transmitted to the shared Central PACS component of the TRS for reporting by remotely located radiologists (refer to Informational Appendices for use cases and requirements). There will be existing hospital with local RIS/PACS connected to the TRS within same cluster.

The above mentioned table summarizes the number of remote sites and modalities (Which has no local PACS/RIS) as example to be integrated to the Central RIS, TRS, Central PACS and DIRS by cluster/clusters for this project.

For radiology centers with RIS/PACS, orders and images may be transmitted to the TRS for reporting by remotely located radiologists (refer to Informational Appendices for use cases and requirements). Also centers with RIS/PACS will be able to use the central platform to report for remote sites without specialist or even radiologist.

The above mentioned table summarizes the number of existing RIS/PACS sites to be integrated to the TRS by cluster/clusters for this project.

# B- <u>Central PACS and DIRS</u>

In the context of the Central PACS and DIRS platform which is XDS based, all images and reports acquired and reported via RIS/PACS at local sites or via the Central RIS and TRS to must be transmitted for archival to the Central PACS and DIRS (refer to Informational Appendices for integration scenarios and requirements). Central RIS and TRS and RIS/PACS at local sites must be bi-directionally integrated to the Central PACS and DIRS for archival of images and reports as well as query and retrieval of relevant prior studies.

The total number of all sites and modalities to be integrated to the Central PACS, DIRS, Central RIS and TRS as above mentioned table including the local existing PACS/RIS.





### C- VNA and viewer

In the context of the Central PACS, DIRS, Central RIS and TRS platform which is XDS based, all images and reports to be communicated to VNA.

### Users in scope

Each zone/region/cluster/clusters will have independent Vendor Neutral Archive Solution (VNA) (Vendor will have right and freedom to deploy that taking in consideration the SLA with MOH uptime) which is seamless point-of-care data capture and storage for all DICOM and NON-DICOM data in its original format cross region hospitals.

The VNA solution allows MOH cross the zone/ region/cluster/clusters to gain independence from the vendor neutral archive solution that integrates with any PACS, RIS, HIS, EHR and EMR.

The VNA can store and provide imaging data from, and to any, endpoint in the healthcare enterprise. And provide universal viewer regardless the source of data.

This solution will enable the MOH achieve the following objectives but not limited to:

- Support storing multiple local patient ID's for a single patient in its database.
- Interface with an enterprise master patient index (eMPI) solution.
- Accommodate both DICOM & Non-DICOM data.
- Support DICOM WADO.
- Support DICOM and non DICOM routing
- allow for granular control of data, security logs and its retention.
- support all IHE profiles (PIX/PDQ, XDS, IOCM, JpegY++, KIN, ,GSPSetc.).
- Store DICOM images from multiple PACS.
- Store DICOM images from multiple sites.
- Support multiple patient ID / MRN schemes handled.
- Providing the changed studies back to the originating site / system.
- Support Image Storage be delivered as a cloud-based service.
- Provide an Enterprise viewer cross the region including zero footprint.
- Provide an interoperable image sharing solution (DICOM and non-DICOM).
- Support pre- and post-fetching.
- Provide an automated policy based deletion process.
- Support load balancing between regional VNA and National VNA..
- Support handle de-centralized electronic object acquisition.
- Support search capabilities (non-Admin).





- Support XDS.
- Seamless Integration cross multi Clusters from different vendors or providers.

Given the nature of the DI Repository Solution, clinical users will not interact directly with the DIRS as they will access data in the DIRS via existing clinical applications or end-user components of the TRS, such a web-based viewer. In the future as EMR and HIS solutions are upgraded, they will also provide clinical end users with access to data stored in the DIRS via VNA and its viewer.

The table below summarizes the number of users and type of user in scope for the DIRS/TRS and VNA with its viewer. Bidders may expand on the types of users outlined below based on their experience or the capabilities of their solution, and must reflect this information in their submissions.

## Example of one Cluster

User type	Number of users
DI Technologist	10.
Clerical staff (Order entry, etc.)	٨٠
Reporting Radiologist/specialist	1
Consulting clinicians	٤٠٠
PACS/RIS administrators (sites transmitting orders/images to TRS)	171
MOH IT support	7 €





(System admin, help desk, etc.)	

#### **OUT OF SCOPE**

The following elements are outside the scope of this project:

 Connectivity, Network infrastructure and data center infrastructure. These will be under the responsibility of other inter-related projects. Vendors are to specify their network and data center infrastructure requirements as part of their responses. However, Vendors have asked in the RFQ and RFP later to propose Hosting location fees as mentioned in the pricing table.

**IMPORTANT**: Proposals must specify in detail all network and data center infrastructure requirements of the proposed solutions (power, space, connectivity, bandwidth, etc.). These will be used by the MOH to ensure adequate infrastructure is available for implementation. However, the vendors must provide all necessary HW/SW to run proposed solutions.

#### T DELIVERY APPROACH & METHODOLOGY

The Bidder should describe in detail the approach to managing & delivering this project and clearly defines project management deliverables. The proposed approach must provide insight into the Bidder's capability to manage the project, respond to day-to-day problems, manage scope, issues, risks, change, etc., provide status, coordinate, staff, supervise and manage project resources. In addition, the Bidder must also describe process controls to be put in place to ensure the work required throughout this project is performed. The Bidder is also requested to identify the metrics to be used to measure progress and measure success.

The Bidder should provide comprehensive project management support and project reporting mechanisms throughout the project duration and adhere to the established eHealth PMO Handbook & processes.

By describing the delivery approach, the Bidder must demonstrate their understanding of the project, especially in terms of its scope, challenges and issues. The Bidder must define their project management approach and a realistic project schedule. The plan must be based on the supplier's experience with similar deployments and the need to harmonize the deployment





activities with the ongoing deployment projects for other suppliers already underway. The Bidder must describe the organization and assignment of human resources, including the client's resource needs.

The response should specifically address how the Bidder will perform the services outlined in this RFQ by describing in detail the following:

#### Y. SOLUTION DELIVERY

- An overview of the proposed project management process and methodology including:
  - Phases, descriptions and resultant deliverables
  - Project oversight activities and frequency of meetings, communication activities between the project manager and the customer's project team.
- A program management and governance plan describing the Bidder's approach to cross project communication and control for this initiative, including a description of the proposed governance structure.
- A scope management process and plan describing the Bidder's approach to scope management for the project.
- A risk analysis and management process and plan describing the Bidder's approach to risk management for the project.
- A quality assurance plan describing the Bidder's approach to quality assurance and quality control for the project, including a description of the proposed organization responsible for the project's quality.
- An overview of the proposed solution architecture and delivery strategy describing how it aligns or expands the conceptual architecture and phasing of scope described in this document. Bidder are encouraged to provide as much detail as possible, including specific recommendations to minimize risk, maximize clinical adoption and ensure the achievement of the stated goals of this project.
- An initial Work Breakdown Structure and high-level plan showing major activities, level
  of effort, dependencies, deliverables and milestones for each of the project phases
  described in the delivery strategy overview.
- A description of how the project will progress from phase to phase; identifying exit criteria for each phase, key decision points and milestones. A description of any assumptions used in creating the plan.
- A sample of deliverables from a previous similar implementation, describing: size and skill of implementation teams, time required to implement, sample plan, training approach.
- The proposed project team organization, as well as the roles and responsibilities of all of the providers and MOH required staff in the project. The Bidder should provide Curriculum Vitae for all of their proposed project team members. Staff must be identified to fill all key management positions.

 $<sup>^{\</sup>epsilon}$  In Sections  $^{\tau}$  to  $^{7}$  of Package Number ( $^{\gamma}$ ) of their proposals, see section  $^{\xi}$ .  $^{\gamma}$  in this document.





- Résumés for the proposed Key Resources in the following roles, including a description of each role and the level of commitment to the project. The résumés should identify experience and expertise that qualifies the individuals in the roles:
  - Project Manager
  - Solution Architect
  - o Installation Engineer
  - Integration Engineer
  - Applications Engineer
  - Applications Consultant
- A description of proposed Saudi-based partners or other local resources which will be leveraged to make this implementation successful. Include information on executive presence and local resource availability.
- A description of proposed procedures for handling and addressing issues and problems that arise during the project, and a clear escalation procedure for issues or problems not resolved to the customer's satisfaction.

### 7.7 ORGANIZATIONAL CHANGE MANAGEMENT, TRAINING AND SUPPORT

- An overview of the proposed change management approach and services to address organizational readiness, communication and promotion, user training and coordination.
- A description of the proposed training program(s) for clinical end users and technical support users.
- A list of proposed training courses, including:
  - o Course objectives and outline
  - o Course content
  - Cost per participant (vendor location vs. MOH site)
  - o Max. group size
  - Length
  - o Prerequisites
- A description of the training environment requirements for on-site training at an MOH facility: space, AV or computer equipment, connectivity, etc.

A description of the support structure, support services in scope, and detailed information on how support will be delivered across the entire MOH organization during the implementation and ongoing operation of the solution.



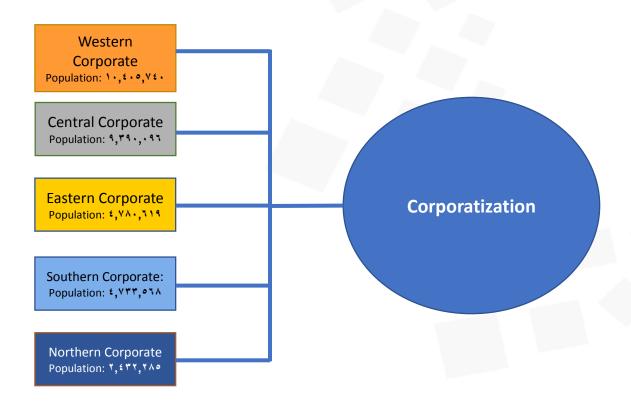


# Appendix A: Glossary of RFQ

These Definitions are provided solely for the purpose of clarification of this RFQ and are not to be construed as legal definitions.

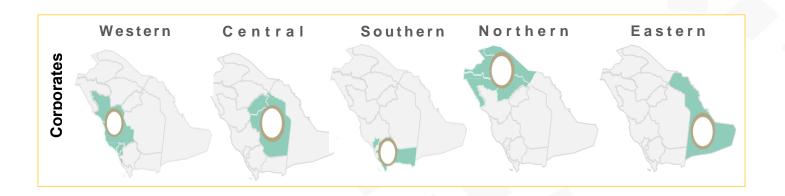
**Cluster:** means Group of healthcare institutes which are Balanced service offering (i.e., primary / secondary / tertiary) within Contiguous Geographical Boundaries. And it has balanced capacity as well as catchment population size. Cluster and or Clusters will be linked to MOH Corporate Structure.

**Zone/Region:** means Geographical area which has one or more than one cluster. This is linked to MOH Corporate Structure.









**ATNA:** Audit Trail and Node Authentication

Authorized Signatory: means any person who is duly authorized by the Bidder by virtue of (a) a valid commercial register naming him as a manager(s) of the business entity/company; (b) a valid authorization letter signed by the duly authorized representative of the business entity/company and attested by the applicable Chamber of Commerce; (c) a valid power of attorney made by the duly authorized representative of the business entity/company and attested by the notary public, and in the case of a power attorney issued in a jurisdiction other than the Kingdom, it should be duly attested by the relevant Saudi consular mission in the country of the business entity/company; or (d) a valid board of directors' resolution, in case of companies, duly issued by the board.

**Bidder:** Any legal entity (public company, private company or joint venture) who submits a proposal for this RFQ.

Business Days: Any day, Saturday through Wednesday, excluding Islamic holidays.

**Contract:** The contract resulted from this RFQ.

**Contract Officer/Issuing Office:** MOH representative who is the primary liaison between MOH and the selected Bidder, and will coordinate overall management and administration of the contract for the MOH.

**DI:** Diagnostic Imaging

**DICOM:** Digital Imaging and Communications in Medicine

**DIRS:** Diagnostic Imaging Repository Solution





**EHR:** Electronic Health Record

IHE: Integrating the Healthcare Enterprise ( www.ihe.net )

**MOH:** Ministry of Health

**Financial Data:** Any information, either direct or indirect, that discloses the Bidder's proposed charges for services and deliverables. Financial data consists of, but is not limited to, costs, fees, rates, bonuses, discounts, rebates, or the identification of free services, labor or materials.

**Health Level Seven (HL**Y): HLY is an international set of open standards for communication that allows health information systems developed independently to automatically "talk" with one another.

**PACS:** Medical imaging technology which provides economical storage of, and convenient access to, images from multiple modalities (source machine types). Electronic images and reports are transmitted digitally via PACS; this eliminates the need to manually file, retrieve, or transport film jackets.

**PGO:** Program Governance office

PMO: Project Management Office

**Prime contractor\Bidder:** A Bidder whose proposal for this RFQ includes the use of a subcontractor(s) to satisfy some, but not all, of the requirements of the RFQ.

**SAR:** Saudi Riyals

**Subcontractor**: Any legal entity that performs services for the Prime Contractor (Bidder) as required for the Prime Contractor's fulfillment of its obligations under a negotiated agreement with MOH for the provision of the services contemplated in the RFQ, by virtue of an agreement with the Prime Contractor.

TRS: Tele-radiology solution

**XDS:** Cross Enterprise Document Sharing.

**XDS Actor:** Actors are information systems or components of information systems that produce, manage, or act on categories of information required by operational activities in the enterprise. XDS defines five actors. Document Source Actor, Document Repository Actor, Document Registry Actor, Document Consumer Actor and Patient Identity Source Actor.

**XDS Document:** The concept of a document in XDS is not limited to textual information. As XDS is document content neutral, any type of clinical information without regard to content and representation is supported. This makes the XDS IHE integration profile equally able to handle documents containing simple text, formatted text (e.g., HLY CDA Release 1), images (e.g.,





DICOM) or structured and vocabulary coded clinical information (e.g., CDA Release Y, CCR, CEN ENV 157-7, DICOM SR).

**XDS-I:** Cross Enterprise Document Sharing for Imaging.

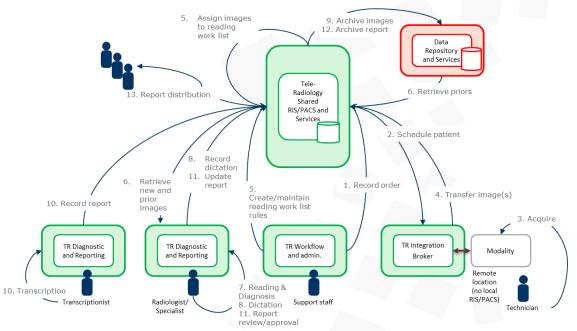
**XDS Profile:** Profiles are detailed specifications for communication among systems to address key clinical use cases, all based on established standards. Each profile defines the actors, transactions and information content required to address the clinical use case.





# **Tele-radiology Solution Use Cases**

PRIMARY READING AND REPORTING BY RADIOLOGIST AT ANY LOCATION (WORK LIST BASED).

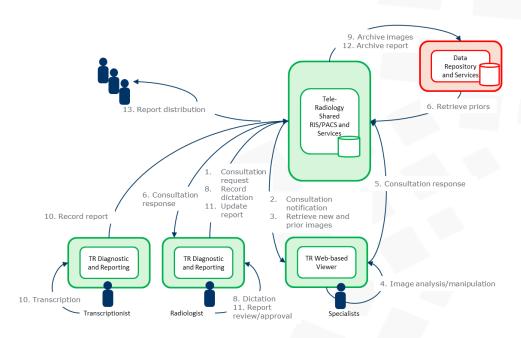


- Order is recorded and stored in TRS shared RIS
- Acquisition is scheduled at local site Images are acquired at local site by a technologist.
- Images are transferred from the remote modality and stored in TRS shared PACS Images are automatically assigned for reporting to a Radiologist from a pool of available resources
- Radiologist retrieves new and prior images for analysis. Relevant priors are automatically pre-fetched by TRS from regional DIRS(s). Radiologist uses Diagnostic Viewer of TRS or an existing DICOM workstation connected to the TRS.
- Radiologist analyses, measures, annotates and manipulates images as needed. Verbal report dictated into TRS.
- 9. Reported images are automatically archived from TRS to DIRS.
  10. Dictation is transcribed into written report via Reporting component of TRS
- Radiologist reviews/edits and approves report via Reporting component of TRS.
   Report is automatically archived from TRS to DIRS.
- 13. Report is distributed to appropriate clinicians and referring physician via TRS.





#### REMOTE CONSULT WITH SPECIALIST TO FINALIZE DIAGNOSIS AND REPORTING (AD HOC II. **ACCESS TO IMAGES FROM DIFFERENT SITES)**



- To finalize a diagnosis, the Radiologist initiates a consultation with a specialist at another location via the workflow component of the TRS.
- Specialist at other location receives consultation notification via TRS.

  Specialist retrieves new and prior images for analysis. Relevant priors are automatically pre-fetched by TRS from regional DIRS(s).

  Specialist uses Viewer component of TRS or an existing DICOM workstation connected to the TRS.

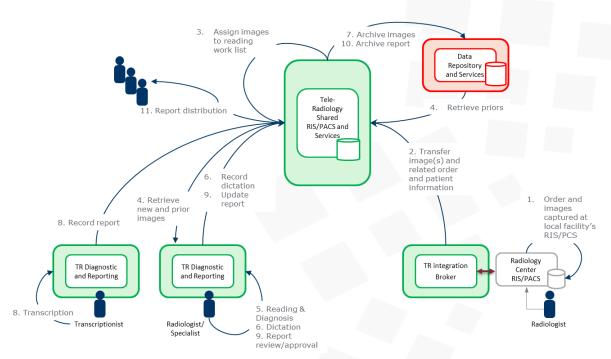
  Specialist analyses and manipulates images as needed.
- Specialist records observations sends response to radiologist via TRS. Radiologist receives Specialist response via TRS. Steps 1 to 5 may be repeated with multiple participants if needed.

- Verbal report dictated into TRS. Reported images are automatically archived from TRS to DIRS.
- Dictation is transcribed into written report via Reporting component of TRS.
   Radiologist reviews/edits and approves report via Reporting component of TRS.
- 12. Report is automatically archived from TRS to DIRS
- 13. Report is distributed to appropriate clinicians and referring physician via TRS.





#### III. TRANSFER OF ORDERS AND IMAGES FROM EXISTING PACS/RIS TO TRS FOR PRIMARY READING AND REPORTING BY RADIOLOGIST AT ANY LOCATION (WORK LIST BASED).



- Images are acquired at local facility. Order information and images are stored in local RIS/PACS. Site wishes to offload workload for certain studies to available pool of remote radiologists.

  Orders and images are transferred to TRS for reading by available pool of remote radiologists.
- Images are automatically assigned for reporting to a Radiologist from a pool of available resources
  Radiologist retrieves new and prior images for analysis. Relevant priors are automatically pre-fetched by TRS from regional DIRS(s). Radiologist
- uses Diagnostic Viewer component of TRS or an existing DICOM workstation connected to the TRS.
- Radiologist analyses, measures, annotates and manipulates images as needed.
- Verbal report is dictated into TRS.
- Reported images are automatically archived from TRS to DIRS.
  Dictation is transcribed into written report via Reporting component of TRS.

- Radiologist reviews/edits and approves report via Reporting component of TRS.
   Report is automatically archived from TRS to DIRS. Images and report are now available for consultation by staff at originating site and any other authorized user
- 11. Report is distributed to appropriate clinicians in originating site and referring physician via TRS.





# Appendix E: Tele-radiology Solution Functional and Technical Requirements

Bidders must explicitly reference the following list of requirements in their responses to the **Scope of Work and Bidder Understanding of Requirements** section of their proposals. Requirements are uniquely numbered. Bidders must describe how their proposal meets each requirement, and must also provide written responses to the questions under the "supporting evidence" column. Bidders are encouraged to consult the **Conceptual Reference Architecture** described in this RFQ.

The vendor must answer all points below and Reference page number in the proposal.

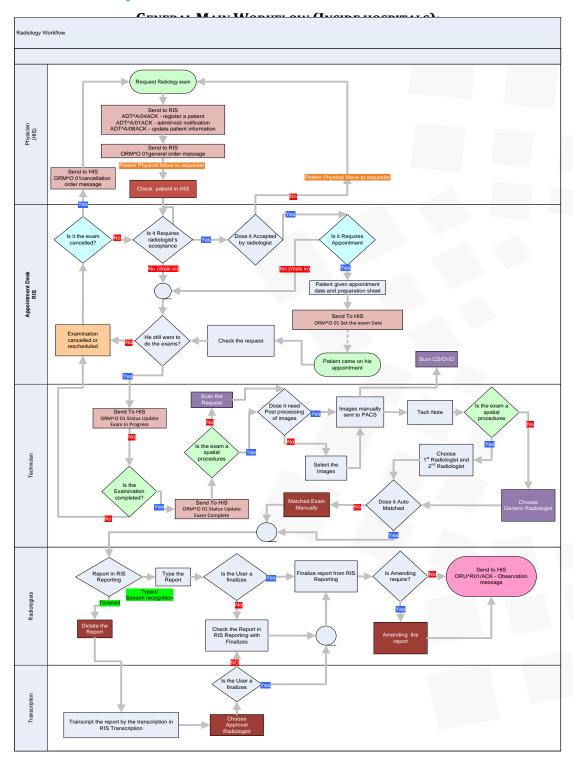
**Appendix M: INTERFACE WORKFLOW** 

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 $<sup>^{\</sup>circ}$  In Section  $^{\gamma}$  of Package Number (  $^{\gamma})$  of their proposals, see section  $^{\xi}.^{\gamma}$  in this document.



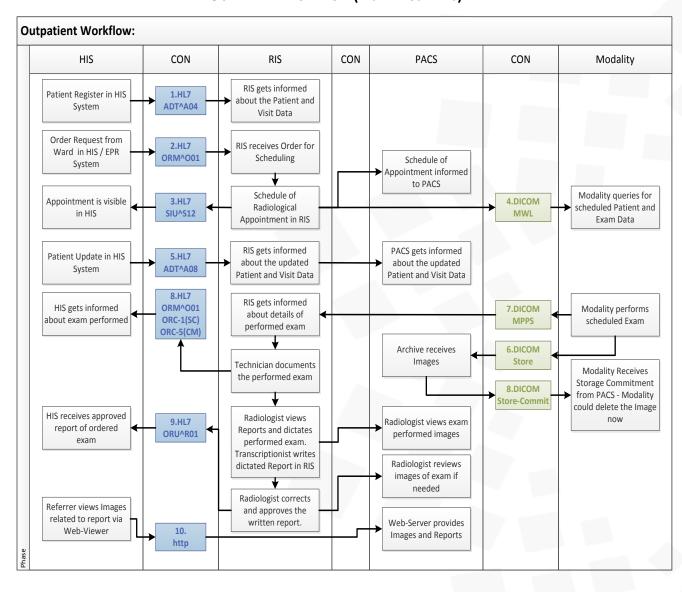






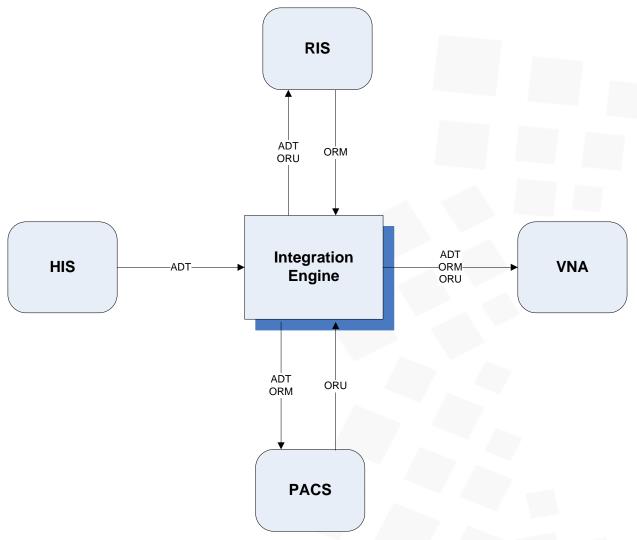


#### **OUTPATIENT WORKFLOW (INSIDE HOSPITALS):**









Typical message types that are expected to be supported but not limited to are shown in the table below.

criteria
integration engine
integration engine type (tight integration technology/open architecture)
DICOM





HL7
IHE
XML
file format
mentoring and alerting
centralized dashboard
GUI interface integration tool
Data Access Flexibility
Testing feature
archieve messages
web services
various connection protocol
data integrator module
minimum layer protocol
Translation performance / message edit
Functional Requirements
R7
R8
R9
R10
R11
R12
R13
R14
R15





R16	
R17	
R39	
R40	
R83	
R95	
R96	
R100	
R101	
R102	
R108	
R114	
R115	
R117	
message supporting	
ADT-A01	
ADT-A02	
ADT-A03	
ADT-A04	
ADT-A05	
ADT-A06	
ADT-A07	
ADT-A08	
ADT-A11	
ADT-A12	





ADT-A13	
ADT-A18	
ADT-A23	
ADT-A28	
ADT-A31	
ADT-A34	
ADT-A40	
ORM-001	
ORU-R01	

Also Vendor shall to comply with the following HLY:

Ministry of Health PACS Program HL<sup>Y</sup> Interface Specification (RIS/PACS-Radiology)

Document Revision History





Revision	Edit Date	Author	Requestor	References
				Health Level Seven
١.٠	1./11/7.17			International
				Health Level
۲.•	.0/.7/7.12			Seven International
۲.۱	17/. ٤/٢ . 1 ٤			Health Level Seven International
۲.۱.۱	1 5/. ٧/٢ . 1 5			Health Level Seven International
۲.۲	17/11/7.15			Health Level Seven International
۲.۳	11/. ٣/٢ . 10			Health Level Seven International
۲.٤	77/. 2/7.10			Health Level Seven International
۲.0	10/.0/7.10			Health Level Seven International





#### Introduction

This document defines the specifications for the ADT/Orders/Results interface between HIS and RIS.

ADT and Order Entry take place in the HIS.

Order Entry (during a HIS downtime), and Result Processing take place in the RIS. The following interface messages are generated:

- ADT messages HIS to RIS (ADT) for IP, OP, ER visit types
- At accessioning, HIS to RIS (ORM),
- After result verification RIS to HIS (ORU / OBR Seq Yo = "F")

This document will cover a subset of the HL<sup>V</sup> messages, namely the one relevant to exchange messages related to the specific areas:

- Patient Demographic Management
- Order Management
- Result

All optional segments needed by the hospital can be added as additional segments and it will not reflect on this stander and it will be for that hospital only.

Please refer to the Health Level Seven documentation for details on the standard.



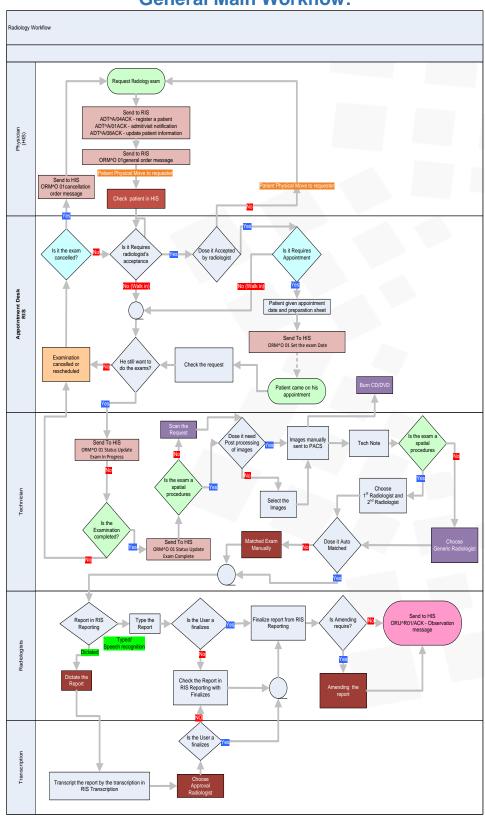


# **Workflow Integration scenarios:**





# **General Main Workflow:**



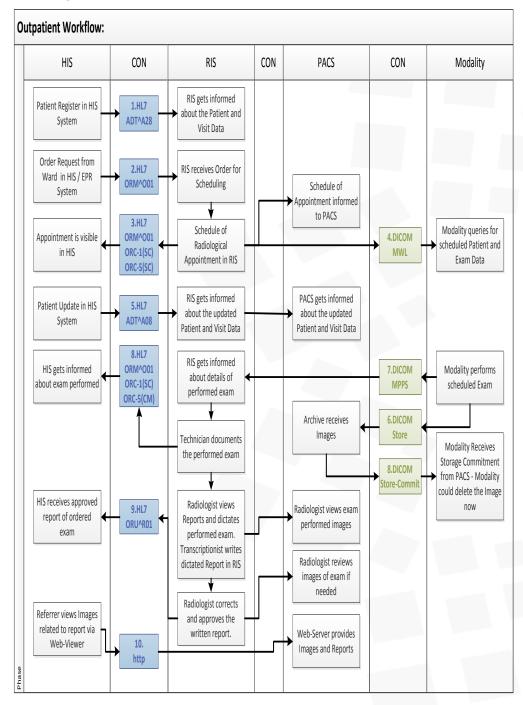




# **Outpatient Workflow:**











Ministry of Health PACS Program HL<sup>Y</sup> Interface Specification (OBY/GYN PACS)

**Document Revision History** 

Revision	Edit Date	Author	Requestor	References
				Health Level
				Seven
۲.٠	70/11/7.15			International





#### Introduction

This document defines the specifications for the ADT/Orders/Results interface between HIS and OBGYN Information Systems.

ADT and Order Entry take place in the HIS.

Order Entry (during a HIS downtime), and Result Processing take place in the OBGYN INFORMATION SYSTEMS. The following interface messages are generated:

- ADT messages HIS to OBGYN INFORMATION SYSTEMS (ADT) for IP, OP, ER visit types
- At accessioning, HIS to OBGYN INFORMATION SYSTEMS (ORM),
- After result verification OBGYN INFORMATION SYSTEMS to HIS (ORU / OBR Seq Yo = "F")

This document will cover a subset of the HL<sup>V</sup> messages, namely the one relevant to exchange messages related to the specific areas:

- Patient Demographic Management
- Order Management
- Result

Please refer to the Health Level Seven documentation for details on the standard.

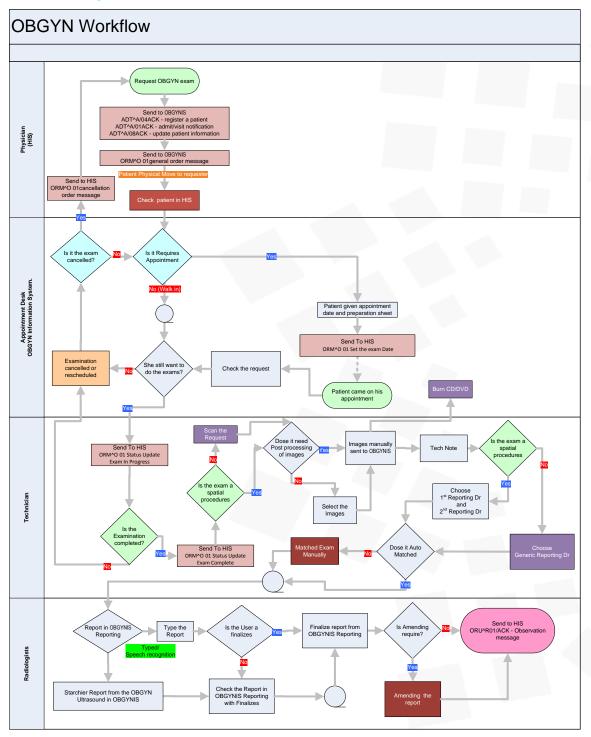




# **General Workflow With Appointment Module:**



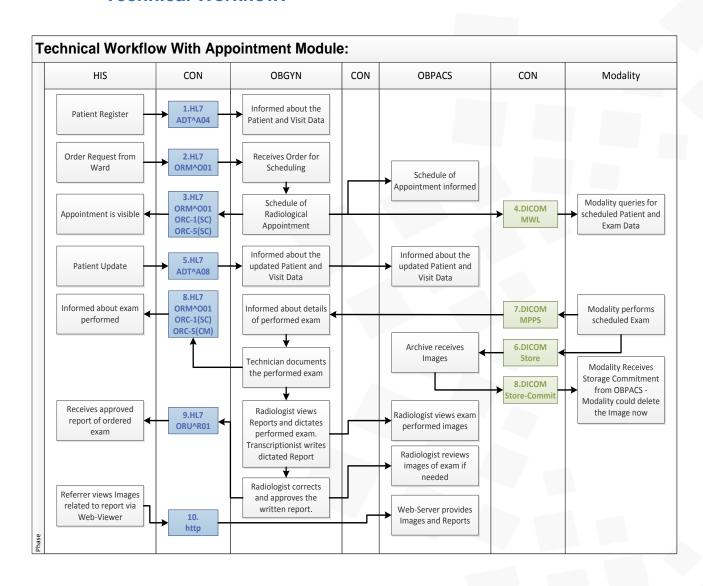








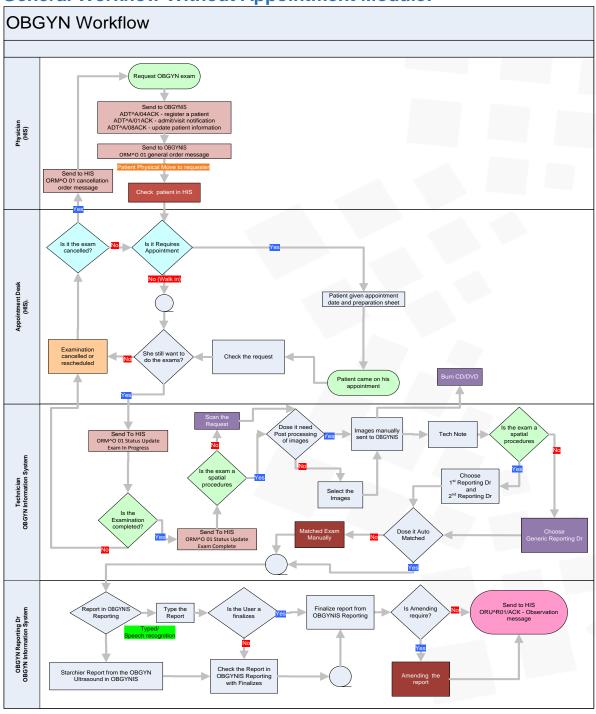
# **Technical Workflow:**







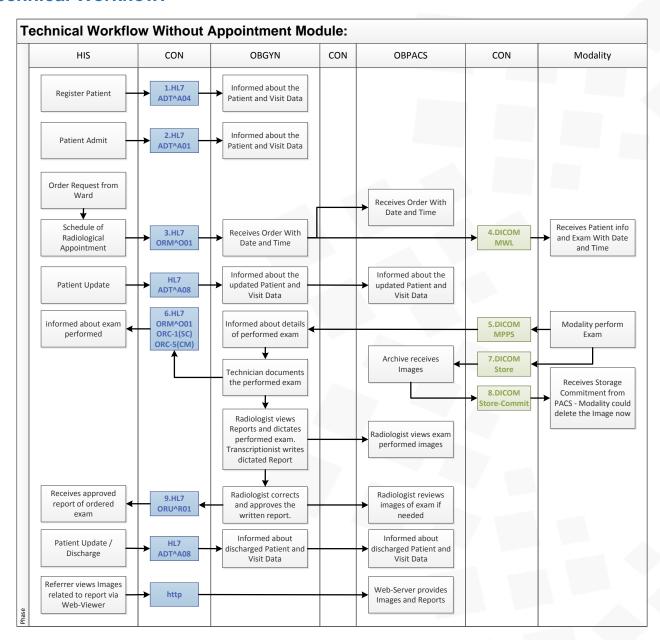
# **General Workflow Without Appointment Module:**







### **Technical Workflow:**







# الملحق الثالث

المتطلبات

 المستندات المطلوبة

 النماذج المرفقة

 عليمات التسليم





### المستندات المطلوبة

### ١. المستندات القانونية

- ١.١ شهادة السجل التجاري سارية المفعول
  - ١.٢ شهادة الزكاة والدخل سارية المفعول
- ١.٢ شهادة من المؤسسة العامة للتأمينات الاجتماعية سارية المفعول
  - ١.٤ شهادة الاشتراك في الغرفة التجارية سارية المفعول
- ١.٥ رخصة الاستثمار إذا كان المتنافس مرخصاً وفقاً لنظام الاستثمار الأجنبي سارية المفعول
- ١.٦ شهادة تحقيق النسبة النظامية لتوطين الكوادر السعودية سارية المفعول (شهادة السعودة/ نطاقات)
  - ١.٧ القوائم المالية المصدقة لميزانية المنشأة في الثلاث سنوات الأخيرة

يتم إرفاق كافة المستندات المطلوبة بختم المقاول وترقيمها كما ذكر في الملحق الثالث تعليمات التسليم.

#### ٢ المستندات الفنية والخبرات السابقة

- ٢.١ يجب على المقاول تقديم الاجابة على هذه الكراسة على النحو التالى:
- موجز للحلول التي تقدم بها مرفقه بالرسومات والخرائط اللازمة لذلك باللغة الانجليزية عدد نسختين (ورقية والكترونية).
- الاجابة على جميع المواصفات والاسئلة التي وردت بالكراسة بالشكل الذي طلب بهذه الكراسة في فقرة (الكترونية). فقرة (الكترونية).
- تدعيم الاجابات والحلول بالمستندات المطلوبة من كتالوجات او نشرات او ملاحق والاشارة بشكل واضح للرجوع الها باللغة الانجليزية عدد نسختين (ورقية والكترونية).
- تقديم التوصيات من خلال خبرات سابقه قام بها المقاول لمثل هذه النوعية من المشاريع وذكر اماكنها مع العناوين وارقام الهواتف للرجوع اليها إذا لزم الامر باللغة الانجليزية عدد نسختين (ورقية والكترونية).
- خطة التطوير او ما يسمى بالـ (Products Road-map) خلال الخمسة سنوات القادمة مدعمة بوثائق رسمية.
- تصنيف الشركة و منتجاتها لآخر خمسة سنوات في KLAS على مستوى جميع المنتجات المعروضة





(PACS/RIS/VNA/Tele-radiology/TD post processing) مدعما بوثائق رسمية.

- ٢.٢ ذكر معلومات عن المقاول حسب النموذج المرفق
  - Company Profile ۲.۳علی أن يحتوي على:
  - ٢.٣.١ الهيكل التنظيمي
  - ٢٠٣.٢ عدد الموظفين
- ٢.٣.٣ عدد فروع ومكاتب المقاول
- ۲.۳.٤ الموردين المعتمدين ، الخ .. يتم تحديد كل المعلومات المهمة حسب نوع العقد)
- 7.٤ ذكر مالا يقل عن ثلاث مشاريع مشابهه لنوع العقد المذكور خلال الخمس سنوات السابقة حسب النموذج المرفق
  - ٢.٥ ذكر المشاريع الحالية والتي سيتم تنفيذها في نفس فترة عمل المشروع حسب النموذج المرفق
    - ٢.٦ ذكر خبرات الجهاز الفني و الإداري التابع للمقاول حسب النموذج المرفق
      - ٢.٧ ذكر التزامات المقاول المالية خلال مدة تنفيذ العقد
        - ۲.۸ ذكر مصادر تمويل المقاول
        - ٢.٩ إرفاق مالا يقل عن ثلاث شهادات حسن أداء





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ملحوظة: ترفق المستندات الثبوتية لهذه المشاريع

نموذج الخبرات - الكادر الإداري				
مقاول حسب الجدول التالي :	٢-٣ وضح خبرات الكادر الإداري التابع لل			
مدة الخبرة	التخصص / مجال الخبرة	الوظيفة	الاسم	الرقم

ملحوظة: يمكن طلب السيرة الذاتية عند الحاجة





	نموذج معلومات عن المقاول		
			١١١٨ لمقاول
المقاول	رأس مال	/ مؤسسة	اسم المقاول ( شركة
	تاريخه		رقم السجل التجاري
	المنصب	ول :	اسم الشخص المسئ
			١.٢ العنوان :
	الشارع		المدينة
يدي	الرمز البر		ص.ب
	فاکس		هاتف :
الكتروني	الموقع الا		البريد الإلكتروني :
			سنة التأسيس:
			١.٣ ملكية الشركة
نسبة الملكية	الجنسية	٠ / الشركاء	ואאה
		اً ا	١.٤ معلومات ممثل الـ





	/##			
				سم
				سمى الوظيفي
	المتنقل	الثابت		اتف
				يد الإلكتروني
	الخبرات - الكادر الفن <u>ي</u>	نموذج ا		
عاول حسب الجدول التالي :	٣-٢ وضح خبرات الكادر الفني التابع للم			
مدة الخبرة	التخصص / مجال الخبرة	الوظيفة	الاسم	الرقم
			7	
	1	لذاتية عند الحاجة	ة : يمكن طلب السيرة ا	ملحوظ
	وذج موارد الشركة	نمو		





	شاريع السابقة	نموذج الخبرات - الم	<u>i</u>		
اصيل طبيعة الأنشطةالتي يقدمهاالمقاول.	۱-۱ توضیح تف				
س سنوات الأخيرة حسب الجدول التالي :	فذة من قبل المقاول خلال الخم	لا يقل عن ثلاثة مشاريع من	۱-۱ اذکر تفاصیل ما		
	المشروع الأول			الوصف	الرقم
			اسم المشروع		١
			موقع المشروع		۲
			مكونات المشروع		٣
			المالكة للمشروع	الجهة	٤
			قيمة العقد		0
			مدة العقد		٦
			3321 833		
دات المملوكة أو المستأجرة للمقاول:	علا				
تاريخ الانتهاء	رقم شهادة الترخيص	حالتها التشغيلية	سنة الصنع	اسم المعدة	





	تاريخ البداية	Υ
	تاريخ الانتهاء	٨
	اسم المسؤول عن المشروع	٩
	أرقام للتواصل مع المسؤول عن	١.
	بريد إلكتروني المسؤول عن المشروع	11
المشروع الثاني	الوصف	الرقم
	اسم المشروع	١
	موقع المشروع	۲
	مكونات المشروع	٣
	الجهة المالكة للمشروع	٤
	قيمة العقد	٥
	مدة العقد	٦
	تاريخ البداية	Υ
	تاريخ الانتهاء	٨
	اسم المسؤول عن المشروع	٩
	أرقام للتواصل مع المسؤول عن	١.
	بريد إلكتروني المسؤول عن المشروع	\ \ \





المشروع الثالث		الوصف	الرقم
	اسم المشروع		١
	موقع المشروع		۲
	كونات المشروع	<u> </u>	٣
	الكة للمشروع	الجهة الم	٤
	قيمة العقد		0
			] [
	مدة العقد		٦
	تاريخ البداية		γ
	تاريخ الإنتهاء		٨
4	، عن المشروع	إسم المسؤول	٩
	ع المسؤول عن المشروع	أرقام للتواصل م	١.
	، عن المشروع	بريد إلكتروني المسؤول	11





### نموذج الخبرات - المشاريع الحالية

١-١ توضيح تفاصيل طبيعة الأنشطة التي يقدمها المقاول.		
١-٢ اذكر تفاصيل مالا يقل عن ثلاث مشاريع قائمة حالياً حسب الجدول التالي :		
المشروع الأول	الوصف	الرقم
	اسم المشروع	1
	موقع المشروع	۲
	مكونات المشروع	٣
	الجهة المالكة للمشروع	٤
	قيمة العقد	٥
	مدة العقد	٦
	تاريخ البداية	٧
	تاريخ الانتهاء	٨
	اسم المسؤول عن المشروع	٩





	أرقام للتواصل مع المسؤول عن المشروع	١.
	بريد إلكتروني المسؤول عن المشروع	11
المشروع الثاني	الوصف	الرقم
	اسم المشروع	١
	موقع المشروع	۲
	مكونات المشروع	٣
	الجهة المالكة للمشروع	٤
	قيمة العقد	٥
	مدة العقد	
	تاريخ البداية	
	تاريخ الانتهاء	٨
	اسم المسؤول عن المشروع	٩
	أرقام للتواصل مع المسؤول عن المشروع	١.
	بريد إلكتروني المسؤول عن المشروع	11





معايير التقييم التي ستعتمدها اللجنة في تقييم ملفات التأهيل		
وصف المعيار	المعيار	مسلسل
<u> </u>	J <u>.</u>	0=1==1
ستقوم اللجنة باستعراض الشهادات والوثائق المقدمة من الشركات	المستندات	١
طالبة التأهيل الموضحة في فقرة المستندات المطلوبة في كراسة	القانونية	
التأهيل		
ستقوم اللجنة باستعراض هيكل الشركة الإداري وتقييمه من حيث	الكادر الإداري	۲
أسس تقسيم العمليات ووجود إدارات مختصة بالتحكم بالجودة.		
ستقوم اللجنة باستعراض السير الذاتية وخبرات ومؤهلات الكوادر	الكادر الفني	٣
البشرية التي ستعمل في المشروع وتقيمها من حيث مستوى مؤهلات		
الفريق ومدى ارتباط خبرات الفريق الفني بنطاق عمل المشروع.		
وهل سبق لهذا الكادر بعمل وتنفيذ مثل هذه النوعية من المشاريع		
(مع ذكر مكانها وسنة التنفيذ). كذلك خبرة المنشأة في توطين هذه		
الكوادر ونسبة السعودة أو الخطة المستقبلية لذلك.		
أ - ستقوم اللجنة باستعراض ثلاثة مشاريع على الأقل مشابهة	الخبرة الفنية	٤
لنطاق عمل المشروع خلال الخمس سنوات السابقة يقدمها طالب		
التأهيل مع ما يثبت قيامه بتنفيذها بنجاح (إرفاق شهادات حسن		
أداء) بالإضافة إلى قيمة هذه المشاريع.		4
ب - كذلك ستقوم اللجنة باستعراض المعايير ووحدة تكامل		
البيانات ومنصة كتابة التقارير ومدى مطابقتها وكفاءتها لما ورد		
بالكراسة.	_	





ج – ستقوم اللجنة باستعراض مشاركة الشركة واختبارها لمنتجاتها		
في الهيئة العالمية للفحص (كونيتاثون - connectathon) ومطابقتها		
لتلك المعايير مع تطبيقها على ارض الواقع في ثلاثة مشاريع على		
الاقل. بالإضافة الى موقعها في تقييم كلاس العالمي (KLAS).		
د – اذا تطلب الامر ، ستقوم اللجنة بزيارة احد هذه المواقع		
لاستكمال تقييم العرض الفني على ارض الواقع ، وقد يتغير التقييم		
بسبب الزيارة و المخرجات الفنية المترتبة عنه.		
ستقوم اللجنة باستعراض القوائم المالية لثلاث السنوات الأخيرة	القوائم المالية	٥
لطالب التأهيل وحجم التزاماته خلال مدة تنفيذ العقد، وستقوم	والتزامات	
اللجنة الفنية بتقييم قدرة طالب التأهيل على الوفاء بالتزاماته	المقاول خلال	
خلال مدة تنفيذ المشروع من خلال عكس قدرته المالية على حجم	مدة تنفيذ	
التزاماته خلال مدة تنفيذ العقد.	العقد	





### تعليمات التسليم

الرجاء قراءة التعليمات واتباعها، الإخلال بأي من التعليمات التالية يعد سبباً كافية لعدم التأهل:

- ١. يتم تسليم المتطلبات في موعد أقصاه يوم الأحد ١ /٧/ ٢٠١٨ الساعة ٤ مساء.
- ٢. في حال التأخر عن موعد التسليم لن يتم النظر في المرفقات ويعد الاستشاري غير مؤهل.
- ٣. يجب إرسال جميع المستندات المطلوبة مناولة إلى إدارة العقود والمشتريات بمكتب تحقيق الرؤية بالعنوان
   التالى: الرياض طريق الملك فهد

## برج البحرين - الدور الثالث

- ٤. يجب تعبئة جميع المرفقات بشكل الكتروني وباللغة العربية.
- ٥. إرفاق صور المستندات الثبوتية مختومة بختم الاستشاري لإثبات دقة المعلومات.
- ٦. يعتبر القصور في تقديم البيانات المطلوبة أوعدم إرفاق المستندات الثبوتية أوعدم ملء كامل البيانات المطلوبة سببا في عدم التأهل.
  - ٧. في حالة عدم تعبئة النماذج بالمعلومات الصحيحة يؤدي ذلك إلى عدم التأهل.
    - ٨. في حال وجود أي استفسارات يتم إرسالها إلى البريد الإلكتروني التالي:

### procurement-vro@moh.gov.sa

- في موعد أقصاه (يوم الأحد ٢٤ /٦/ ٢٠١٨ الساعة ٤ مساء) على أن يتم الرد عليكم في خلال ثلاثة أيام عمل.
- ٩. سيتم الإعلان عن النتائج في موقع الجهة الرسمي www.moh.gov.sa وعبر حسابات التواصل الاجتماعي(VRO\_MOH\_PROC).
- ١٠. سيتم إخطار الشركات الغير مؤهلة بأسباب استبعادهم في مدة أقصاها أسبوع من تاريخ الإعلان عن النتائج أو يمكن للشركات الغير مؤهله الإستفسار عن أسباب عدم تأهلهم بالتواصل مع ممثل الجهة من خلال البريد الإلكتروني السابق ذكره.