**Technical Specifications for Cochlear Implants:2025**

**External part**

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| **Features** | **Required specifications** |
| Configuration | Behind the ear digital sound processor FDA Approval  |
| Number of programs | Three and above |
| Transmitting cable  | Quantity 3 |
| Magnetic coil | Quantity 2 |
| In case of one complete external part compartment ( Cable+ coil) | Quantity 3 units |
| Magnet | Quantity 3 of different strengths |
| Battery compartment | Quantity 2  |
| Assistive listening device connections  | All needed accessories for FM system and other audio input systems should be FDA approved |
| Specialized labeled Cochlear implant batteries voltage 1.45v zinc air type, production and expiry date must be at least 2 years from the date of purchase  | Quantity:240 battery  |
| Controller | Manual and/or automatic gain optimization Volume control , Auto Sensitivity and whisper , On/Off switch Noise suppression  |
| Drying station  | one |
| The whole external device must be upgradable to one unit Device. (Wireless) |  |

**Internal Part**

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| **Features** | **Required specifications** |
| Internal part ( receiver) | - Full Titanium encased new and not refurbished- FDA approved |
| Internal cochlear implant electrodes | - Full cochlear coverage electrode abilities.-Special electrode types suitable for special cases available upon request.- FDA approved. |
| MRI compatibility | Compatible with MRI (1.5 Tesla) units with and without magnet. |
| Latest software version | Must be upgradable and have the ability to perform the following tests:Neural or Auditory response telemetry.Impedance measurement (telemetry).Acoustic reflex measurement.Availability of ABR testing with the connections. |
| Production and expiry date of the implant | Must be freshly prepared and in case of expiration the agent must replace the expired devices. |
| Frequency range to be covered | At least (250-4000) Hz |
| Surgical kit: | 2 kits, apart from previous tenders. |
| Programming kit, fitting and telemetry software. | 2 kits, apart from previous tenders. |
| Insertion test device. | Sterile package of ITDQuantity : 10 % of the whole number of devices |
| Transmitting cables, coils, light detector, battery compartment for the use of audiology department. | 3 items for each, apart from previous tenders. |

**Special terms**

1. All implant systems including the external and internal parts must be of late technology tried and tested (not more than 7 years for external and not more than 10 years for internal device). The committee has the right not to accept any device (internal and/ or external parts) that showed problems even if it is FDA approved.
2. In case of cessation of manufacturing of the external parts, agents are committed to provide the patient and DRMS with the new model at the same price list of the alternative system based on the price of the present tender.
3. Agents are committed to manage any damage or risk of the internal part resulting from exposure to MRI or malfunction and to replace the internal part if needed free of charge.
4. Local bidders participating in the tender MUST be sole agents for the manufacturing companies NOT distributors and must have an office in Jordan.
5. Local bidders must prove through official written statement their close association with the manufacturing company and emphasize on their ability for after sales support.
6. Tender awards are based upon the best value for money and best performance expectations (reputation, after sale support etc.).
7. Tenders are encouraged to include any additional support or quantities to their offers, any additional (free of charge ) quantities offered by the bidder’s will be taken into consideration when calculating the unit price of the required item
8. **Three -years manufacturer warranty** for the external device, and **Ten years manufacturer warranty** for the internal device from the date of **switch on** THROUGH a guarantee stamped and legalized by the notary public. Commitment in case of replacing the speech processor or sending it to the main company, the local agent must provide the patient with a replacement speech processor and or any accessories until the original one is fixed and sent back to the patient **(free of charge in case the device is under warranty or device failure cases) and not to charge the patient for the shipping fees. In case the device is out of warranty or miss use, the patient will be charged for the shipping fees and maintenance.**
9. One set of operation manuals, and one set of service manuals including schematics and spare parts list to be provided with each unit.
10. Pricing ***must*** include services of sale, shipment ,transportation and delivery to site, installation, and bringing the equipment into service.
11. Custom clearance of goods & spare part shall be the responsibility of the Jordanian Armed Forces (JAF), however, suppliers shall bear all costs incurred by handling charges and any demurrage charges or extra expenses incurred by the port’s corporation (including expenses caused by delay in presenting the necessary shipment documents for either clearing or transporting the goods to the required location mentioned in the final order, delivery note issuing charges, unloading charges, local shipping charges etc.). The supplier is also responsible for providing of all relevant shipping documents, together with the delivery order(s).
12. Offers ***must*** include original technical brochures and data sheets and the committee has the right to investigate the accuracy of the offered brochures.
13. Any accessories and consumable items necessary to operate the offered system(s) must be clearly identified and priced in the submitted tender.
14. Prices ***must*** be fixed for a minimum period of 5 years for the internal and external part.
15. A backup of different implant electrodes must be available at the local agent’s store and to be provided upon request within one month.
16. Spare parts, accessories and consumables availability must be guaranteed for a minimum of 10 years
17. Offers must include a comprehensive, priced list of spare parts accessories and consumables valid for a minimum period of 5 years and must be available at any time at the local agent.
18. Commitment to provide any special type of internal device electrodes based on the case of the patient. **(Free of charge only to exchange and handling the internal device and receiving the new one in return).**
19. Training :

A - certified user training at a reputable center abroad recognized by the manufacturer for four surgeons cochlear implant team only for (significant time according to manufacturer program) , all cost inclusive , air tickets, expenses, full accommodation and boarding must be included.

***B -***  on site training workshop for audiologists and speech pathologists of the cochlear implant team only.

1. Commitment to provide one laptop with included software and hardware for device programing and one printer of high quality.
2. **Manufacturer support:** at any time and in case of any unforeseen complications the Royal Medical Services cochlear implant team might face either during implantation or during mapping. An invitation for an external consultant should urgently arrive to Royal Medical Services for assistance and the manufacturer should cover all costs.
3. DRMS Has The Right To Increase The awarded Quantities By A Percentage Not Exceeding 35%. after final order notification with the same prices , terms & conditions of the contract upon request & approval of awarded party
4. -DRMS Has The Right To Decrease The awarded Quantities By A Percentage Not Exceeding 50% after final order notification with the same prices , terms & conditions of the contract upon request & approval of awarded party .
5. The supplier or his local agent must furnish RMS with a guarantee stamped and legalized by the notary public equals to 115% of the total value of the goods valid for (twelve months) after acceptance of the equipment by DRMS.
6. For offers submitted in Jordanian dinars , payment will be either by wire transfer or by cheque after acceptance of goods , any other way of payment will be rejected .
7. في حال حدوث major FDA recall بعد الاحالة يحق للخدمات الطبية الملكية الشراء على حساب المناقص من شركات صانعة اخرى و حسب مواصفات العطاء و في حال تم زراعة القوقعة سيتم اعادة العملية على حساب المتعهد .
8. يلتزم المتعهد باستبدال 10% كحد اقصى من الكمية الكلية للعطاء للزراعة الداخلية فقط مجانا للحالات التي تتعطل فيها الزراعة الداخلية نتيجة تعرض المريض لصدمة خارجية ( trauma ) .
9. يلتزم الوكيل المحلي بتقديم كفالة صيانة بنكية بواقع (5% ) من قيمة الاحالة لمدة (24 ) شهر من تاريخ التسليم النهائي للوازم في قيادة المستودعات الرئيسية شاملة قطع الغيار و اجور الايدي العاملة .
10. يلتزم المتعهد بتقديم التزام خطي من الشركة الصانعة بتأمين و تصنيع قطع الغيار للاجهزة الموردة لفترة العمر التشغيلي لها و المحددة من قبل الشركة الصانعة و بموجب كتاب رسمي .
11. يلتزم المتعهد بتحديد الشركة الصانعة ( manufacturer ) و بلد المنشأ ( county of origin ) و بلد الصنع ( made in ) كما يلتزم بتقديم صورة عن شهادات المنشأ المصدقة عند الطلب و وضع ليبل حراري غير قابل للازالة يوضح بلد الصنع ( made in ) .
12. في حال التحديث على الاجهزة من حيث software و hardware يلتزم المتعهد بتقديمها طيلة فترة العمر التشغيلي للاجهزة التي تتطلب ذلك مجانا كما يلتزم المتعهد بتقديم كافة البيانات المتعلقة بذلك بشكل دوري و فور اقرارها من الشركة الصانعة .