

Laboratori de
Referència
de Catalunya



TECHNICAL SPECIFICATIONS FOR CONTRACTING THE SUPPLY OF THE MATERIAL NECESSARY TO CARRY OUT THE RADAR PROJECT.

PROMOTED BY LRC-MAR-CSC*: *Rapid detection of
antibiotic resistance and prevention system for
nosocomial infection caused by multidrug-resistant
microorganisms*

**Reference Laboratory of Catalonia / Hospital del Mar /
Consortium of Health and Social Services of Catalonia*

File LRC 1/2025-PO.

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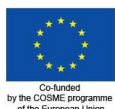




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1. Subject of the procurement

The purpose of the contract is to provide the diagnostic service of the Hospital del Mar, managed by the Laboratori de Referència de Catalunya, SA (hereinafter, "LRC"), with a system for rapid screening of multi-resistant microorganisms (hereinafter MMR) and rapid detection of antibiotic resistance and a system for the prevention of nosocomial infection caused by multi-resistant microorganisms.

These systems include the supply of reagents, the lease of analyser equipment, auxiliary instrumentation (such as the DNA extractor or the fluorimeter) and the provision of bioinformatics hardware, software and storage capacity, including preventive and corrective maintenance, in accordance with the conditions set out in these technical specifications.

The laboratory products covered by the tender are set out in a list of items - **Annex I.- Annual activity and list of products**, in this document -, according to the type of item.

The list of items to be procured is divided into 3 lots:

Lot 1 - Supply of a rapid screening method for the detection of gram-negative bacilli in patients under surveillance for colonisation with these micro-organisms
Lot 2 - Supply of a method for rapid detection of antimicrobial resistance
Lot 3 - Supply of the platform to carry out the complete genomic analysis of the multi-resistant micro-organisms of application in prospective epidemiology

Tenderers must offer the list of products, the transfer of the proposed equipment including corrective and preventive maintenance, including an annual estimate of the equipment and the maximum purchase price, excluding VAT.

The successful tenderer undertakes to deliver the products in succession, for the unit price that

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The contract will be subject to the needs of LRC. In **Annex II Financial Offer and Automatically Evaluable Criteria** of these specifications, the consumption forecast for the total period of the contract is established as a guideline, without there being any commitment on the part of LRC to exhaust the forecast consumption, so that under no circumstances will LRC be obliged to consume the total amount awarded.

The award shall be made to the same successful tenderer for each lot, and he may not change the technical characteristics of the items awarded to him, nor may he change their unit prices. Any modification of the characteristics of the products, at the request of the contractor, must be authorised in advance by the technical management of the LRC, but without altering the unit price awarded and without prejudice to the system of contractual modifications.

The successful bidder must provide, install and maintain the equipment necessary carry out the analytical determinations during the term of the contract.

2. Centres covered by the contract and scope of the service

The scope of the contract includes the diagnostic service managed by LRC at the Hospital del Mar, to be provided at the postal address below:

Lots	Centre	Address	Population	CP	Province
1 y 2	EMERGENCY LABORATORY - HOSPITAL DEL SEA	Paseo Marítimo, 25-29	Barcelona	08003	Barcelona
3	LAB PLUS BLUE	C/ Selva, 10. EDIF. INBLAU "A".	El Prat de Llobregat	08820	Barcelona

The Hospital del Mar activity referred to and the number of analysers to be installed per location are listed in **Annex I** of this document.

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3. Requirements and specifications

3.1 Generic specifications

The technical characteristics of the products subject to the invitation to tender are those set out in point 3.2 of these technical specifications. The following must be indicated:

- EAN codes are mandatory for all tendered product references.
- The temperature conditions, if applicable, and if not specified in the tender and the material is damaged for this reason, the company shall bear the cost of its urgent replacement free of charge.

On the identification guarantees, the tenderer shall document the characteristics of products submitted by identifying with the LRC code of the test or product in question.

The company awarded the contract undertakes to notify the LRC Purchasing Service immediately of any change in the identification of the product that may occur during the term of the contract, by e-mail to the following address compres@lrc.cat

3.1.1. Applicable regulations

The products offered must comply with current Spanish and EU regulations on quality, labelling and packaging.

In the case of medical devices, the bidding company must present documentation accrediting compliance with current legislation and that all products and equipment offered in lots 1 and 2 have the CE-IVDD / CE-IVDR conformity marking, complying with the in vitro diagnostic directives.

Furthermore, with regard to the medical devices and the data provided by the manufacturer, the company shall submit a declaration that all the devices of lot 1 and 2 are labelled and provide documentation complying with the content foreseen as necessary requirements in these specifications and in Regulation (EU) 2017/745 and Regulation (EU) 2017/746 of the European Parliament and of the Council of 5 April 2017 on in vitro diagnostic medical devices, as applicable.

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3.1.2. User manual

The supplier must provide a user's manual, instruction document or protocol for the use of the material, preferably in Catalan, and if this is not possible, in Spanish.

3.2 Concrete specifications

Tenderers must meet all the technical requirements described in these specifications. Tenders which do not explicitly state these commitments in the technical specifications submitted shall be considered to be excluded.

3.2.1 Lot 1 - Supply of the rapid screening method for the detection of multi-drug resistant gram-negative bacilli in patients under surveillance for colonisation with these microorganisms

Batch 1 includes tests to be performed on patients under surveillance for carriers of multidrug-resistant bacteria admitted to special hospital units, such as Nephrology, Oncohematology, ICU and AER. The sample will be taken when the patient is admitted to the special hospital unit, and patients in these units will be screened on a weekly basis.

Supply of the rapid screening method for the detection of gram-negative bacilli. in patients under surveillance for colonisation with multi-resistant microorganisms	
ID	Requirement
Technical requirements for reagents	
L1-R-01	System with capacity of detection of bacilli multidrug-resistant Gram-negative bacilli via the evaluation of the growth bacterial on specific liquid culture media.
L1-R-02	It will allow the growth of cephalosporin-resistant enterobacteriaceae of 39 generation and carbapenems in two separate tests.
L1-R-03	Adapted to the processing of rectal specimens from surveillance patients active colonisation by multi-resistant bacteria.
Technical requirements for the loaned analyser in use	

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L1-A-01	Automated sample reading and processing system.
L1-A-02	Time to result in < 8 hours.
L1-A-03	It shall have a minimum processing capacity of 60 rectal specimens (80 positions) with the possibility to scale up to a total of 120 samples.
L1-A-04	The equipment must offer the possibility to continuously load samples and automatic.
L1-A-05	The equipment shall be equipped with a system of continuous reading of bacterial growth allowing the detection of multi-drug resistant Gram-negative bacilli.
Ancillary infrastructure and adaptation of the same	
L1-INAUX-01	Technical project including UPS systems for the equipment transferred in use, to ensure uninterrupted operation
L1-INAUX-02	In the event that the equipment has to be relocated to premises other than original premises, the successful tenderer shall be responsible for the relocation of the equipment without additional cost.
L1-INAUX-03	If the equipment is a table-top unit, a table with wheels must be supplied for each piece of equipment offered.
L1-INAUX-04	Analytical instruments on loan: the analytical instruments supplied in transfer of use must be new.

3.2.2 Lot 2 - Rapid antimicrobial resistance detection method supplies

Lot 2 covers tests that will allow the detection of certain resistance mechanisms in Gram-negative Bacilli.

Lot 2.- Rapid antimicrobial resistance detection method supplies	
ID	Requirement
Technical requirements for immunochromatographic reagents for the detection of carbapenems resistant microorganisms	
L2-	Immunochromatographic colorimetric reading assay.

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RCARB-01	
L2-RCARB-02	Application on Gram-negative bacilli isolated in solid or liquid medium.
L2-RCARB-03	Ability to detect the following carbapenemases: NDM, IMP, VIM, OXA-, OXA-, VIM- and OXA- 48 and KPC from isolation of enterobacteria and <i>Pseudomonas aeruginosa</i> .
L2-RCARB-04	Sample processing time <5 minutes
L2-RCARB-05	Time to result <20 min
Technical requirements for immunochromatography reagents for the detection of extended-spectrum beta-lactamase (ESBL) producing microorganisms	
L2-RBLEE-01	Immunochromatographic colorimetric reading assay
L2-RBLEE-02	Application on Gram-negative bacilli isolated in solid or liquid medium.
L2-RBLEE-03	Ability to detect CTX-M type extended-spectrum beta-lactamases (ESBLs) from enterobacterial isolates.
L2-RBLEE-04	Sample processing time <5 minutes
L2-RBLEE-05	Time to result <20 min

3.2.3 Lot 3 - Supply of the comprehensive solution for the complete genomic analysis of multi-resistant micro-organisms: genomic and epidemiological interpretation

Lot 3 covers all supplies and services related to a comprehensive solution for genomic analysis testing of bacterial isolates as well as molecular comparison testing between them (molecular epidemiology). Lot 3 covers the analysis of 605 cases (605 isolates of multi-drug resistant bacteria), to be carried out over a planned period of 8 months (date of formalisation of the contract {April} 2025), in weekly analytical series consisting of 15-20 samples, which should yield complete results within 72h as

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maximum: from the start of the procedure to the bioinformatics interpretation of the sequences analysed (basic analysis of the sequenced genomes).

Lot 3.- Supply of the comprehensive solution for the analysis genomic complete of multi-resistant micro-organisms: genomic and epidemiological interpretation	
ID	Requirement
Technical requirements of the end-to-end solution	
L3-RSI-01	Equipment defined by the awardee's integrated solution, on transfer of use: A DNA extractor, fluorimeter, and DNA sequencer.
L3-RSI-02	Supply of reagents and consumables needed, defined by the and included in the price of the equipment defined.
L3-RSI-03	Necessary IT equipment, if any, as defined by the successful tenderer, and on loan by the defined teams.
L3-RSI-04	Software, where appropriate, as defined by the successful tenderer and on transfer of use by the teams.
Technical requirements for the DNA extractor	
L3-READN-01	Automated DNA extraction for different sample types (cultures and liquid media).
L3-READN-02	Flexible extraction protocols (open user configuration)
L3-READN-03	Extraction process capacity: minimum of 15 samples/series
L3-READN-04	Duration of extraction process: maximum 60 minutes
L3-READN-05	Extract quality: compatible with PCR and NGS applications
L3-READN-06	Closed system to avoid contamination
L3-READN-07	Biosafety: built-in UV decontamination

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L3-READN-08	Desktop system
Technical requirements of the fluorometer	
L3-RF-01	Quantification specific of dsDNA through a assay based on selective fluorochromes
L3-RF-02	Sensitive and wide dynamic range quantification: <1 ng/uL and up to at least 100 ng/uL
L3-RF-03	Sample requirements: micro volumes <3 uL
L3-RF-04	Time to result:< 5 s
L3-RF-05	Desktop system
Ancillary infrastructure and its adaptation	
L3-INAUX-001	Technical project including UPS systems for the equipment transferred in use, in order to ensure uninterrupted operation
L3-INAUX-002	In the event that the equipment has to be relocated to premises other than the initial premises, the successful tenderer shall be responsible for the relocation of the equipment at no additional cost.
L3-INAUX-003	If the equipment is a table-top unit, a table with wheels must be supplied for each piece of equipment offered.
L3-INAUX-004	Analytical instruments on loan: analytical instruments supplied in transfer of use must be new.
Technical requirements for sequencing (NGS) and interpretation of information genomics	
L3-NGS-01	Extract nucleic acids from the samples to be sequenced (DNA bacterial isolates), which as a minimum should refer to: ○ <i>Klebsiella pneumoniae</i>, producer of extended-spectrum beta-lactamases ○ <i>Klebsiella pneumoniae</i> resistant to carbapenems ○ Carbapenem-resistant <i>Escherichiacoli</i> ○ <i>Enterobacter cloacae</i> complex resistant to carbapenems

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	○ <i>Pseudomonas aeruginosa</i> extremely resistant
L3-NGS-02	Quantifying and qualitatively assessing DNA samples
L3-NGS-03	Generate NGS libraries that are quantifiable and that allow the evaluation of their quality
L3-NGS-04	Sequence the libraries according to the following criteria:
L3-NGS-04.1	Sequencing of bacterial genomes will have to reach coverage >95% and depths > 50X / whole genome.
L3-NGS-04.2	The basic and automatic analysis of the sequenced genomes in a bioinformatics platform provided by the successful bidder shall provide:
L3-NGS-04.2.1	Assembly of genomes and epigenomes (plasmids),
L3-NGS-04.2.2	Microbial identification (taxonomic analysis: 16S, MLST and ST)
L3-NGS-04.2.3	Identification of antibiotic resistance genes, virulence factors of isolates and their variants
L3-NGS-04.2.4	Annotation of genomic and plasmid polymorphisms: SNPs and CNVs
L3-NGS-05	In the event of unforeseen needs that imply the non-performance of the activity in the 72-hour period (such as a breakdown), the sequencing will be at the bidder's expense. In order to accredit this mandatory requirement, the bidder must provide a brief explanation, in the technical report, of how he will carry out this sequencing at their own expense.
L3-NGS-06	Provide statistical data on assemblies and complete metrics of quality.
L3-NGS-07	Providing basic sequence data, through databases referenced and metadata of all information generated (TXT, CSV, GBK, etc.).
L3-NGS-08	To store the sequences and associated data by the above mentioned platform bioinformatics until at least 1/1/2027

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4. Additional mandatory requirements of the technical offer

4.1 Information systems

Tenderers must undertake to comply with all LRC information systems requirements and with those indicated to us, for the duration of the contract, by the Health Office in terms of cybersecurity¹.

Information systems	
ID	Requirement
General technical requirements	
L1-RTG-01 L3-RTG-01	The company awarded each Lot will appoint a project manager in the IT area, who will be the sole interlocutor with the director of Systems of Information from LRC. This head of project will be able to be accompanied by such technical and functional staff as it may deem appropriate in their relationship with LRC counterparts. Meetings will be set up to with the regularity and content to be determined in due course. determined (bimonthly once implantation is stabilised and fortnightly until stabilisation).
L1-RTG-02 L3-RTG-02	The equipment dedicated to the provision of the services covered by the contract will be located on LRC premises, separating equipment directly related to the laboratory's own activity and to the computerised posts necessary for its control and management, which will be will locate at the laboratory, and equipment destined for servers of applications, databases and processes, which will reside in the Data Processing Centre (DPC) of Mas Blau or in the DPCs of the Mas Blau centres. of the LRC's network of laboratories.
L1-RTG-03	The successful tenderer shall provide the necessary hardware and software for the

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L3-RTG-03	The service provider shall be responsible for the installation, configuration, commissioning, maintenance and upgrading of the service, as well as for the provision of the service. adequate support to the user and to any incidents that may arise.
L1-RTG-04 L3-RTG-04 L3-RTG-04	The physical and logical equipment to be interfaced or integrated with other information systems shall comply with the standards defined by LRC. The configuration of all IT infrastructure, especially electronics (communications and security) and equipment installed in the DPC, shall follow the criteria set out by LRC.
L1-RTG-05 L3-RTG-05 L3-RTG-05	The successful bidder's computer equipment, both in the laboratory management area and in the DPC area, will be connected to the local network. In the laboratory management area, the successful bidder will provide the necessary infrastructures to connect the necessary work equipment if the existing ones are not sufficient or if changes in their location have to be considered. If the extension of cabling (network points) and/or communications electronics is necessary, the acquisition and implementation of the aforementioned infrastructures must comply with the criteria established by LRC. In the DPC area, the successful bidder will provide the appropriate infrastructures for the architecture to be defined if the existing ones are not sufficient, following LRC standards in this area, including cabling, communications electronics (switches), balancers, security equipment and as many devices as are necessary to interconnect, in a secure manner and with capacity and sufficient availability, all equipment.
L1-RTG-06 L3-RTG-06 L3-RTG-06	The successful tenderer is responsible for the management and administration of the machines and information systems (servers, PCs, peripheral devices, etc.), , applications, etc.) dedicated to the provision of this service, as well as the attention of users and incidents in relation to

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	the software and hardware provided by the successful tenderer.
L1-RTG-07 L3-RTG-07 L3-RTG-07	Management and administration tasks will be carried out from locations located in the laboratory management area. If, for monitoring, maintenance or other similar activities, the successful bidder considers it necessary to have external access, a VPN connection (accessible from the Internet) may be provided, with the conditions and requirements established by LRC for this type of link. In any case, access to any data of a personal nature will always be guaranteed in a secure manner, by encrypting this data or using any other mechanism that guarantees that the information will not be transmitted via the Internet. be intelligible or manipulated by third parties.
L1-RTG-08 L3-RTG-08 L3-RTG-08	The successful tenderer shall provide LRC with detailed documentation on the configuration of the machines, in particular electronics (if any) and servers, and shall keep it permanently updated.
L1-RTG-09 L3-RTG-09 L3-RTG-09	LRC will have the capacity to monitor the IT equipment of the awarded company, with a sufficient level of authorisation to fulfil at least two objectives:
L1-RTG-09.1 L3-RTG-09.1	Check that the installation is in accordance with what was previously established.
L1-RTG-09.2 L3-RTG-09.2	Have information on the availability or non-availability of the service.
L1-RTG-09.3 L3-RTG-09.3	Beyond this requirement, LRC reserves the right to conduct audits as extensive, thorough and detailed as it deems appropriate to verify: - The quality of the facilities. - Compliance with commitments and agreements. - Check that the installation is in accordance with what was previously established.
Technical requirements for the online connection	

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L1-RTCO-01	The successful bidder for each LOT shall electronically integrate the pre-analytical systems and analytical with the LIS of LRC (dibi.net). This integration includes sending results to LIS
L1-RTCO-02	The successful tenderer of each LOT shall bear the cost of developing the integration of equipment/middleware with LIS.
Technical requirements for the provision of dedicated servers (The LRC has two physical Data Processing Centres (DPC) located at two of its sites. This allows us to have our systems redundant to deal with possible incidents).	
L1-RTSD-01 L3-RTSD-01 L3-RTSD-01	Tenderers for each LOT must provide the DPC requirements for the proper functioning of what is proposed, taking into account the need to respond to incidents and upgrades of their software.
L1-RTSD-02 L3-RTSD-02 L3-RTSD-02	Bidders for each LOT shall indicate whether the proposed software can be installed on virtualised servers. If so, the LRC will decide, based on the requirements and available capacity, whether to use its infrastructure.
L1-RTSD-03 L3-RTSD-03	The successful bidder of each LOT, in case of proposing middleware and/or other software required to cover the needs of the specifications and/or improvements proposed for this tender, must provide rackable physical servers to the Data Processing Centre (DPC) of the LRC, taking into account the need to have two working environments "pre-production" and "production", as well as being able to have the "production" environment redundant. in the two DPCs.
L1-RTSD-04 L3-RTSD-04 L3-RTSD-04	Servers must be new and must be sized to handle daily activity while maintaining optimal processing levels. In case of degradation/obsolescence of the , during the the duration of the contract, the successful tenderer shall provide new ones with the

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	characteristics required for the correct functioning of the system.
L1-RTSD-05 L3-RTSD-05 L3-RTSD-05	The responsibility for the response times of the middleware/applications provided by the bidder lies with the bidder. Therefore, the bidder must make explicit in the proposal the metrics with which it must work the system to be efficient.
L1-RTSD-06 L3-RTSD-06 L3-RTSD-06	In the event that the server does not incorporate a disk, the successful bidder must provide a cabinet/NAS, redundant in the two DPCs. The storage characteristics must contemplate a 5-year history of the information not sent to the LIS, as well as the security copies to be made. by LRC/the successful tenderer of the analyser.
L1-RTSD-07 L3-RTSD-07 L3-RTSD-07	LRC will decide, based on the requirements/servers provided, to incorporate the middleware/software on its own virtualised servers. In this scenario: The successful bidder will provide the servers proposed in the tender to LRC free of charge for other LRC purposes. The licenses will be continued by by the successful tenderer.
L1-RTSD-08 L3-RTSD-08	The LRC commits itself to offer at most the capacity of the servers provided by the successful tenderer and to manage updates.
L1-RTSD-09 L3-RTSD-09 L3-RTSD-09	In the event that more capacity/performance is required than that provided by the successful bidder's servers, it will be up to the successful bidder to provide the new equipment to cope with it.
Technical requirements of supported workstation operating systems	
L1-RTSO-01 L3-RTSO-01 L3-RTSO-01	The supported operating systems that are validated by LRC client systems are: ○ Microsoft Windows 10 (64-bit) or higher. During the term of the contract, the successful tenderer must maintain the operating system on the latest version. Therefore, he must provide for updates of the themselves.
Technical requirements for supported browsers	
L1-RTN-01	Microsoft Internet Explorer 11 (no "backward compatibility mode")

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L3-RTN-01	above).
L1-RTN-02 L3-RTN-02	Google Chrome version 96 or higher 64-bit, Official Build. You should always be updated to the latest versions.
Technical requirements for server operating systems	
L1-RTSOS-01 L3-RTSOS-01 L3-RTSOS-01	Supported operating systems that are validated by LRC server systems are: Windows server 2019 64-bit or higher.
L1-RTSOS-02 L3-RTSOS-02 L3-RTSOS-02	GNU/Linux, the latest and penultimate stable version of the different operating systems will be supported as long as they are within the life cycle marked by the distribution.
Technical requirements for access control	
L1-RTSOS-01 L3-RTSOS-01 L3-RTSOS-01	LRC will provide remote access to the system in a managed way (awingu platform) for those centres where we manage the infrastructures. and, we will be the liaison to coordinate with the rest of the centres, which, depending on their security policies, may or may not give it to us.
L1-RTSOS-02 L3-RTSOS-02 L3-RTSOS-02	LRC will manage the access of registrations and de-registrations to its infrastructure with corporate means.
L1-RTSOS-03 L3-RTSOS-03	The successful bidder shall provide and be responsible for updating the list of maximum three users to access the LRC infrastructure. LRC will validate the necessary privileges to guarantee the correct Support of the Services. LRC will deliver the users' credentials.
L1-RTSOS-04 L3-RTSOS-04	Password management should include a minimum of 8 characters with lower case, upper case, numbers and special characters.
L1-RTSOS-05 L3-RTSOS-05 L3-RTSOS-05	The passwords to be used shall be of an individual nature in order to maintain security audits.
L1-RTSOS-06 L3-RTSOS-06 L3-RTSOS-06	In order to reset passwords, the supplier will contact the LRC CAU to provide a new password following the security guidelines.

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Technical requirements for monitoring	
L1-RTM-01 L3-RTM-01	The system must be able to be monitored by LRC monitoring following standard protocols (SNMP, ICMP).
Technical safety requirements	
L1-RTS-01 L3-RTS-01	The tenderer shall communicate to LRC, prior to implementation, any changes to the scenario implemented and validated by change management, possible incidents, impact, affected functionalities and/or security gaps.
L1-RTS-02 L3-RTS-02 L3-RTS-02	The supplier must periodically check compliance with security policies, standards and other security requirements and update the versions of the Operating Systems and Browsers to the latest/penultimate stable version during the awarded period.
L1-RTS-03 L3-RTS-03	The LRC will validate the opening of the ports as long as the security protocols defined by LRC and set by the Catalan cybersecurity authorities are complied with.
L1-RTS-04 L3-RTS-04 L3-RTS-04	If the systems are managed within the LRC servers, LRC will provide an anti-virus system and, together with the bidder, will validate the correct functioning.
Technical requirements for the backup	
L1-RTBU-01 L3-RTBU-01	LRC will perform the backups of the machines at data level, the bidder must specify in your proposal the back-up to be performed.
L1-RTBU-02 L3-RTBU-02 L3-RTBU-02	This tender requires the supply of physical machines, which must be sized by the bidder for each LOT and must allow for the use of Veeam-backup for back-ups.
L1-RTBU-03 L3-RTBU-03 L3-RTBU-03	In case the analysers, which are part of the LOT, are not able to transmit to the LIS the information used to issue the result (e.g. graphics, images, of the interpreting software itself) or the LIS is unable to record this information, daily backup copies of

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	this information in a cabinet/NAS to be provided by the successful bidder. The LRC shall use its automated backup system, and backups shall be made in accordance with the instructions provided by the successful tenderer of the LOT, which will be responsible for its validity in the event of the need to retrieve it.
L1-RTBU-04 L3-RTBU-04	Backups should be performed and tested periodically.
L1-RTBU-05 L3-RTBU-05	The backup will be carried out for all the technological components that LRC The LRC's backup software makes it convenient to use.
L1-RTBU-06 L3-RTBU-06	The provider must ensure that the backups are functional.
Technical work requirements, printers and UPS	
L1-RTTIS-01 L3-RTTIS-01 L3-RTTIS-01	The PCs associated with the analysers and provided by the successful bidder must use operating systems, antivirus and browsers updated to the latest versions during the term of the contract and, when required by the cybersecurity agency of the Generalitat de Catalunya/the ICT department of the LRC, must plan and carry out the actions necessary for its fulfilment.
L1-RTTIS-02	The PCs connected to the analysers must be able to connect to the LIS and, if necessary, be able to work with two monitors - one for analyser management and the other for LIS work. These PCs must be in perfect working order for the duration of the contract and, in case of breakdown, slowness, will be exchanged for a new one at the request of the LRC/awardee's initiative.
L1-RTTIS-03	If the analyser software can be run from an LRC PC, the requirements for processing, disk, etc. must be indicated.
L1-RTTIS-04	If the analyser requires a printer, and this cannot be an LRC network printer, the successful tenderer shall be responsible for the supply and maintenance of the printer, including toner consumption. for the duration of the contract.

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L1-RTTIS-05 L3-RTTIS-02	All analysers must be fitted with a UPS, which will be provided and paid for by the successful tenderer. In case of failure, it shall be replaced by a UPS. new.
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4.2 Training

Training	
ID	Requirement
Technical training requirements	
L1-FORM-01 L3-FORM-01	Training plan for personnel on the equipment and systems, both for start-up and ongoing training. This plan must detail the courses offered, both in the laboratories and at the bidder's facilities, indicating content and duration for each piece of equipment. The plan must also include the offer of support for continuous training by assistance. to courses, etc.
L1-FORM-02 L3-FORM-02	Explicitly include the commitment when training staff that they must use the analysers, for commissioning and whenever there is a change.
L1-FORM-03 L3-FORM-03	Explicitly include the commitment to assume the cost of the training, both human and material resources (reagents, etc.)
L1-FORM-04 L3-FORM-04 L3-FORM-04	A schedule of the training plan should be submitted, which should include at least the training period (for morning and afternoon staff), the contents, and the objectives of the training.
L1-FORM-05 L3-FORM-05	All laboratory and practitioners who require it must be trained in the use of the equipment in such a way as to interfere as little as possible with the use of the equipment. minimum possible in the proper functioning of the service.

4.3 Prevention of occupational hazards

The contracted company must comply with the specific regulations on risk prevention.

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work.

Prevention of occupational hazards	
ID	Requirement
Technical requirements for the prevention of occupational hazards	
L1-PRL-01 L2-PRL-01 L3-PRL-01 L3-PRL-01	It shall provide a certificate of commitment in this regard.
L1-PRL-02 L2-PRL-02 L3-PRL-02 L3-PRL-02	In accordance with article 41 of Law 31/1995, of 8 November, on the Prevention of Occupational Hazards, manufacturers, importers and suppliers of machinery, equipment, products and work tools are obliged to ensure that these do not constitute a source of danger for the worker, provided that they are installed and used in the conditions, in the manner and for the purposes recommended by them. To this end, they must provide users with information on the correct way of use by workers, the additional preventive measures to be taken and the occupational hazards to be avoided. The use of the equipment shall be subject to normal use as well as to tampering or misuse.
L1-PRL-03 L2-PRL-03 L3-PRL-03 L3-PRL-03	However, in the case of items for the protection of workers, they shall be obliged to ensure their effectiveness provided that they are installed and used in the conditions and manner recommended by them. To this end, they shall provide information to users of CRLs on the type of risk for which they are intended, the level of protection and the level of safety of the workers. the correct way of use and maintenance.
L1-PRL-04 L2-PRL-04 L3-PRL-04 L3-PRL-04	The successful bidders must be aware of and inform their own or subcontracted personnel who access the facilities of the LRC network centres (sales representatives, delegates, transporters, couriers, etc.) of the general safety rules of the centres they visit, in accordance with the regulations of Royal Decree 171/2004 of 30 January, which has as its purpose to The objective is the development of Article 24 of Law 31/1995 of 08 November 1995.

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L1-PRL-05 L2-PRL-05 L3-PRL-05 L3-PRL-05	If during the execution of this contract situations arise in which some kind of assembly or other activities are required in the facilities, the successful bidders must carry out the CAE procedure which can be found at this link on the entity's website www.lrc.cat . https://cae.jeveal.com/
L1-PRL-06 L2-PRL-06 L3-PRL-06 L3-PRL-06	All products supplied must comply with Spanish and European Union standards and regulations regarding quality, safety, ergonomics, environment, energy saving, compatibility, etc. electromagnetic, labelling and packaging.
L1-PRL-07 L2-PRL-07 L2-PRL-07 L3-PRL-07	In particular, the CE marking in accordance with European standards shall be required for products to which it applies.

4.4 Logistics and supply conditions

Logistics and supply conditions	
ID	Requirement
Conditions of supply	
L1-CS-01 L2-CS-01 L3-CS-01 L3-CS-01	The awarded companies undertake to supply the awarded materials with a minimum shelf life of 6 months, if the characteristics of the product allow it.
L1-CS-02 L2-CS-02 L2-CS-02 L3-CS-02	The successful tenderer shall remove defective materials and replace them with new ones in proper condition free of charge.
L1-CS-03 L2-CS-03 L2-CS-03 L3-CS-03	Likewise, in the case of material left in storage by the successful tenderer at the recipient plant, it must always be kept up to date in as to their expiry.

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L1-CS-04 L2-CS-04 L3-CS-04 L3-CS-04	The successful tenderer shall be obliged to deliver the material according to the needs of the users and orders shall be placed throughout the contract period, without limitation either in the number of orders to be placed or in amounts to be ordered.
L1-CS-05 L2-CS-05 L3-CS-05 L3-CS-05	The successful tenderer shall be obliged to deliver the equipment according to the needs of the users and orders shall be placed throughout the contract period, without limitation either in the number of orders to be placed or in the number of orders to be placed. the amounts to be ordered.
Guarantee of supply	
L1-GS-01 L2-GS-01 L3-GS-01 L3-GS-01	The successful tenderers undertake to maintain stocks that guarantee adequate continuity of supply to each and every one of the centres to which they are awarded the contract.
L1-GS-02 L2-GS-02 L3-GS-02 L3-GS-02	In case of impossibility of supply: a) This should be communicated to the Purchasing Service, by e-mail tocompres@lrc.cat with a copy to magatzem@lrc.cat b) They shall provide their own alternative in good time, in order to check its suitability and to be able to be approved by the target schools; c) In the event that the alternative presented is not equivalent to the product initially awarded, the Purchasing Department shall take the appropriate measures to guarantee supply to the centres. recipients.
L1-GS-03 L2-GS-03	The successful tenderers undertake to guarantee supply during the term of the contract in accordance with quantities specified in the contract.

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L3-GS-03	are established on the basis of the consumption of the centres.
L1-GS-04 L2-GS-04 L3-GS-04 L3-GS-04	The successful tenderers must have a specific contact telephone number and/or e-mail address in order to be able to secure the supply or for any queries that may arise.
L1-GS-05 L2-GS-05 L2-GS-05 L3-GS-05	The successful tenderers also undertake to meet the delivery deadlines indicated in these specifications.
Delivery time	
L1-TLL-01 L2-TLL-01 L3-TLL-01 L3-TLL-01	The successful tenderers shall deliver the material on the date indicated in the corresponding delivery order, which shall be 3 working days from the date of delivery. of the date of receipt of the order.
L1-TLL-02 L2-TLL-02 L3-TLL-02 L3-TLL-02	In the case of urgent orders, as specified in orders, delivery time will be maximum of 24 hours.
L1-TLL-03 L2-TLL-03 L3-TLL-03 L3-TLL-03	Failure to comply with these deadlines will entail the penalties specified in the particular administrative clauses and Specific Characteristics Table, and may even lead to the termination of the contract. contract at the request of the contracting authority.
L1-TLL-04 L2-TLL-04 L3-TLL-04 L3-TLL-04	Exceptionally, the Purchasing Department may assess and authorise the modification of the delivery deadline set for the products covered by this procedure.
Terms of delivery	
<u>Transport:</u> Packaging conditions to the logistic operator	
L1-CLLT-01 L2-CLLT-01	Shipments of material should be made to the shipping addresses that

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L3-CLLT-01	are included in the purchase orders.
L1-CLLT-02 L2-CLLT-02 L3-CLLT-02 L3-CLLT-02	Shipments of material must be on pallets (with the exception of small delivery volumes), and must comply with the following conditions and packaging characteristics: • European masons of 1.20 x 0.80 x 1.20 m. • Shrink-wrapped bricklayers • Bricklayers with a maximum of 750 kg, and a maximum height of 170 cm (included in the pallet). • Pallets must contain only one material and batch. • If the volume of the item does not exceed the contents of a pallet, different items may be placed on the same pallet. duly ordered and externally identified.
L1-CLLT-03 L2-CLLT-03 L3-CLLT-03 L3-CLLT-03	Delivery notes shall be on the outside of the packaging. The duplicate delivery note shall identify: • Supplier's VAT number • Delivery or purchase order number (PCP) • The article number and EAN code for those items that have it • Product description • Batch number and expiry date • The reference quantity • Storage temperature
L1-CLLT-04 L2-CLLT-04 L3-CLLT-04 L3-CLLT-04	The packaging must comply with the NIN F-15 regulation, which refers to wood packaging used in international trade.
L1-CLLT-05 L2-CLLT-05 L3-CLLT-05 L3-CLLT-05	The recipient plant shall verify the integrity of the packaging at the time of receipt of the material. In the event that the material does not arrive in the correct condition, the in appropriate conditions, it shall be returned to the company.
<u>Temperature controlled</u>	

L1-CLLT-06 L2-CLLT-06 L3-CLLT-06 L3-CLLT-06	The products that need it, according to the instructions of conservation of the product, it will be necessary that they are sent without losing the cold chain. It will be necessary for the contractor to have traceability of the transport conditions, i.e. a record of the temperature conditions from departure from the warehouse to arrival at our facilities. Storage and transport conditions must also be specified either on the product packaging or on the product certificate.
L1-CLLT-07 L2-CLLT-07 L3-CLLT-07 L3-CLLT-07	The company awarded the contract must indicate the maximum time that the products can be outside the temperature requirements, and what these temperature requirements are when they are different from the generic refrigeration requirements (2-8° C). Any non-compliance with the temperature requirements must be reported. Transport temperature records may be required at any time during the contract from the company awarded the contract in order to assess compliance with the transport conditions, as this is the responsibility of the contractor.
L1-CLLT-08 L2-CLLT-08 L3-CLLT-08 L3-CLLT-08	Tenderers are required to submit Annex IV "Product Transport Temperature Conditions Form" to their tender, to inform about the characteristics of the entity to guarantee the temperature conditions of the product.
EDI system	
L1-SEDI-01 L2-SEDI-01 L3-SEDI-01 L3-SEDI-01	The contractor shall use the EDI system as the means of exchange of commercial documents, and shall produce the following message: Command to Supplier (ORDERS message).
L1-SEDI-02	The successful tenderer must provide, at the time of formalisation of the contract

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L2-SEDI-02	contract, the following information: 1. EDI Network 2. Operational Point (EDI user identifier) 3. EDI inbox (receiving address of messages)
L3-SEDI-02	
L3-SEDI-02	
Receipt of goods at the sites	
L1-RMC-01	When the supplier's transport agency arrives, the carrier must deliver a single copy of the unvalued delivery note to the receiving office, where they check that the order is still pending. supply.
L2-RMC-01	
L3-RMC-01	
L3-RMC-01	
L1-RMC-02	Once the unloading order has been given to the transporter, the delivery note or delivery note from the supplier is stamped, indicating the date and the conformity pending examination of the goods, and a copy is given to the transporter, together with the receipt form, so that he can proceed to unload the material and arrange it according to the operator's instructions. of the warehouse.
L2-RMC-02	
L3-RMC-02	
L3-RMC-02	
L1-RMC-03	In the event that the transport agency does not provide delivery notes from the supplier or proof of delivery, the goods will be rejected. The successful tenderer shall provide the possibility to download the transport documents and contents electronically. The goods shall be stored in the warehouse until they have been checked. physical state, expiry date, quantity, batch and form of presentation.
L2-RMC-03	
L3-RMC-03	
L3-RMC-03	
L1-RMC-04	In the event of any incident, the supplier will be informed by e-mail.
L2-RMC-04	
L2-RMC-04	
L3-RMC-04	
L1-RMC-05	In the event that the quantity delivered differs from the quantity stated on the delivery note, the actual quantity delivered shall be taken delivery of, communicating
L2-RMC-05	
L3-RMC-05	
L3-RMC-05	

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	the incident to the supplier, so that he can issue the invoice for the actual quantity. In this case, the difference in quantity remains to be supplied in the corresponding order, quantity that the supplier will should be delivered as soon as possible.
L1-RMC-06 L2-RMC-06 L3-RMC-06 L3-RMC-06	The grounds for refusing the goods are: • The shelf life is less than the minimum supply period. • The form of presentation is different, so that the quantity delivered is not multiple of the requested unit. • The condition of the product is not correct, e.g. broken packaging, unkept cold chain, and any other conditions that make the product for stock on hand. If the incident is detected at the time of unloading, the goods are rejected and the agency's own carrier takes the material away. In the event that it is detected during the subsequent inspection, the supplier has at its disposal 30 days to remove the goods from the centre's warehouse.
L1-RMC-07 L2-RMC-07 L3-RMC-07 L3-RMC-07	In the event that the transport agency takes goods from more than one supplier, and cannot or does not want to take only the rejected material from one supplier and takes all the goods from the different suppliers, the goods are considered as undelivered and are therefore recorded as pending supply.
	The supply will be carried out within the timetable established by each centre. In case of Mas Blau it is from 08:00 to 13:00 from Monday to Friday. The reception of the material, in the corresponding centre, must be done with the presence of the staff assigned to the reception of the material. east.
	It will be imperative that the contractor send all the products labelled with QR code/barcode (format GS1-128, formerly called EAN-128).

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4.5 Maintenance and/or technical service

Maintenance and/or technical service	
ID	Requirement
General technical requirements	
L1-MST-01 L3-MST-01	The company awarded the contract is responsible for the replacement of all the equipment or repair as appropriate, movement of personnel equipment to the factory, , spare parts, technical support and spare part y items necessary for testing of testing (except for electricity, water, gas supply; in case of repair of the equipment in the centre, as well as samples as deemed appropriate by the technician or responsible practitioner). In addition, maintenance shall be carried out preventive, corrective and predictive maintenance of the equipment, its installation and its relocation throughout the duration of the contract.
<u>Expenditure</u>	
L1-MST-03 L3-MST-03	They will be borne by the company awarded the contract: - Expenditure on preventive maintenance, corrective maintenance, spare parts, consumables and other items necessary for the proper functioning of equipment and supply systems continuous electric power. - Any costs arising from the supervision and monitoring of the troubleshooting and repair, as well as the handling and transport of the items to be replaced or diagnosed. - Costs arising from the installation or relocation of equipment due to a change of location of any laboratory in the network that occurs throughout the duration of the contract.

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	- Costs arising from technological changes and improvements, without prejudice to the regime of contractual modifications. - Reagents and materials damaged as a result of failures. - If the delay in the repair is more than 24 hours (Lot 1) and 48 hours (Lot 3), the successful bidder shall provide a solution in order not to delay the delivery times of the results. In case of having to refer the samples to another laboratory, the latter shall bear the costs of the referral.
<u>Corrective maintenance</u>	
L1-MST-04 L3-MST-04 L3-MST-04	With regard to corrective maintenance, it is compulsory to indicate in the offers that the following specifications must be met: - The telephone response times of the technical service shall be less than 2 hours. - The technical service will provide coverage every working day of the year by telephone.
L1-MST-05 L3-MST-05	Certificates of the corrective maintenance carried out, detailing the activities performed, must be submitted to those responsible for the area or centre. The certificates shall be sent by e-mail with a delivery note to the laboratory as proof that the maintenance has been carried out. This delivery note must be signed with the conformity of the responsible.
L1-MST-07 L3-MST-07 L3-MST-07	In the event that a failure occurs repeatedly without the solutions provided by the successful bidder being able to resolve it, the centre will open a Non-Conformity and require the withdrawal of the affected equipment and its replacement for another that provides an optimal solution to the laboratory's requirements.
L3-MST-08	After the maximum response times set by the

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	If it is necessary to contract the services of an external laboratory, these costs shall be borne by the successful tenderer, including the costs of transporting samples and results.
<u>Preventive maintenance</u>	
L1-MST-11 L3-MST-11 L3-MST-11	The bidder shall detail in the report the periodicity and actions to be carried out for each piece of equipment.
L1-MST-12 L3-MST-12 L3-MST-12	Certificates of the preventive maintenance carried out with details of the activities performed must be submitted to the area or centre managers. The certificates shall be sent by e-mail with a delivery note to the laboratory as proof that the maintenance has been carried out. This delivery note must be signed with the agreement of the responsible.
L1-MST-14 L3-MST-14 L3-MST-14	Preventive maintenance shall be carried out with minimum interference to laboratory operations. If they involve inconvenience to personnel or downtime, they shall be scheduled outside the hours of operation. The laboratory's productive time or during hours.
L1-MST-15 L3-MST-15 L3-MST-15	It must be expressly included in the delivery notes or preventive maintenance sheets that the revision carried out is has made of agreement with the manufacturer's recommendations.
<u>Technological improvements</u>	
L1-MST-16 L3-MST-16 L3-MST-16	The awarded companies shall undertake to update and include, throughout the term of the contract, improvements and innovations related to the object of the contract that entail an improvement in quality and/or results. analytical, at the discretion of the technical management of the laboratory.
L1-MST-17	The cost of installation, resulting from upgrading/need for renovation

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L3-MST-17	equipment, shall be at the expense of the successful tenderer, without prejudice to the established regime of contractual modifications.
L1-MST-18 L3-MST-18 L3-MST-18	In the event that it is necessary for care or organisational reasons to move the equipment to a new location, this shall be borne in full by the supplier to whom the contract is awarded.
<u>Attention to queries</u>	
L1-MST-19 L3-MST-19 L3-MST-19	The successful bidder will also offer user support (attention to queries and incidents) and maintenance in relation to the software and machinery provided by the same on this tender. The maintenance will cover adaptations or extension of functionalities required by those responsible for the laboratory, without involving modification of the essential conditions of the contract, which must be expressly included the delivery notes or preventive maintenance sheets. For support services, the schedule of provision must cover attendance from 8:00 to 17:00 hours.
<u>Installation and relocation of equipment</u>	
L1-MST-20 L3-MST-20 L3-MST-20	The successful tenderer must adapt (bear the cost of the modifications) the existing electrical and computer installations for the installation of the equipment and for the maintenance of the equipment necessary to ensure the uninterrupted power supply for the operation of the systems offered. The successful tenderer must also make the transfer of special tables with casters for the analysers in your offer, if any.
L1-MST-21 L3-MST-21 L3-MST-21	If during the term of the framework agreement it should be necessary to move the instruments covered by this tender, either temporarily or permanently, as a result of extensions or refurbishments, this will be at the expense of the company awarded the contract.
Return of equipment	
L1-MST-22	The successful tenderer shall be responsible for collecting the equipment once he has

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L3-MST-22	at the end of the duration of the contract. The equipment must be delivered to the successful tenderer in good condition, i.e. free of defects and defects caused by LRC.
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4.6 Waste and environmental impact

Waste and environmental impact	
ID	Requirement
L1-RIA-01 L2-RIA-01 L3-RIA-01	The successful tenderer will adopt the measures appropriate for the strict compliance of the legislation environmental community, state, and local authorities in force and in its consolidated version, which applies to the activity carried out.
L1-RIA-02 L3-RIA-02	The successful tenderer shall include in its maintenance protocol preventive, the periodic review of the waste disposal system proposed for its analysers, and that the disposal of the waste that it The equipment generated by their equipment is being used correctly. They must also to include in the delivery notes or intervention sheets, a specific section on to provide a written record of compliance with the management of waste waste from each equipment, alerting a LRC if they detect any non-compliance or anomaly in this regard.

4.7 Invoicing

Invoicing	
ID	Requirement
L1-FACT-01 L2-FACT-01 L3-FACT-01 L3-FACT-01	Payment to the contractor shall be made on presentation of the invoice. issued, in accordance with the current regulations on electronic invoicing, within the terms and conditions established in Article 198 of the LCSP.

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L1-FACT-02 L2-FACT-02 L3-FACT-02 L3-FACT-02	In accordance with the provisions of Law 25/2013, of 27 December, on promoting electronic invoicing and creating the accounting register of invoices in the public sector, invoices must be signed with an advanced signature, based at a recognised certificate , and should include, necessarily, the procurement file number.
L1-FACT-03 L2-FACT-03 L3-FACT-03 L3-FACT-03	The format of the electronic invoice and signature must comply with the provisions of Order ECO/306/2015, of 23 September, which regulates the procedure for processing and recording invoices in the accounting register of invoices within the scope of the administration of the Generalitat de Catalunya. of Catalonia and the public sector that depends on it.
L1-FACT-04 L2-FACT-04 L3-FACT-04 L3-FACT-04	Thus, the contractor must submit its invoices to the eFACT service of the Open Administration Consortium of Catalonia (AOC), in its capacity as the General Entry Point for Electronic Invoices of the Government of Catalonia and its Public Sector. For further information, please consult this link: http://economia.gencat.cat/ca/70_ambits_actuacio/tresoreria i pagaments/factura-electronica/
L1-FACT-05 L2-FACT-05 L3-FACT-05 L3-FACT-05	Invoices must be electronic and must be uploaded in XML format via the following link to the relevant public sector " box": https://efact.eacat.cat/bustia/?emisorId=7.
L1-FACT-06 L2-FACT-06 L3-FACT-06 L3-FACT-06	Invoices must be linked to one order only, and an invoice may not group more than one order.
L1-FACT-07 L2-FACT-07 L2-FACT-07	In the product description on the invoice, the product code must be entered first, followed by the product code and then by the

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L3-FACT-07	name.
L1-FACT-08 L2-FACT-08 L3-FACT-08 L3-FACT-08	The DIR code of the Reference Laboratory of Catalonia, SA (hereinafter LRC) by the three management centres (Accounting Office, Processing Unit and Management Body) is A09039354.
L1-FACT-09 L2-FACT-09 L3-FACT-09 L3-FACT-09	The actual payment(s) for the supply and/or services provided will be made in accordance with the contents of the LCSP and only by bank transfer, due 30 days / invoice date, on the 15th of the following month, and upon receipt of the invoice at the LRC Economy and Finance Department, through the channels described above. LRC will only pay the company awarded the contract for the services actually rendered, and under no circumstances will LRC be obliged to exhaust the estimated value of the contract/tender budget.
L1-FACT-10 L2-FACT-10 L3-FACT-10 L3-FACT-10	No price increase shall take place during the term of the contract. Any change in VAT shall be subject to review, and no other increase may be passed on.
L1-FACT-11 L2-FACT-11 L3-FACT-11 L3-FACT-11	Invoices must be rounded off to two digits, in accordance with Article 11 of Law 46/1998 of 17 December 1998 on the introduction of the euro.
L1-FACT-12 L2-FACT-12 L3-FACT-12 L3-FACT-12	The monitoring of the status of invoices can be consulted on the website of the Department of the Vice-Presidency and Economy and Finance in the Treasury and Payments section (consult the status of invoices and payments). of documents), as from the day following the day of registration of the invoice.
L1-FACT-13 L2-FACT-13	In the event of late , the contractor shall be entitled to receive, at

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L3-FACT-13	the legally established terms and conditions, interest for late payment and the corresponding compensation for collection costs under the terms established in Law 3/2004, of 29 December, which establishes measures to combat late payment in transactions. commercial.
L1-FACT-14 L2-FACT-14 L3-FACT-14 L3-FACT-14	The contractor may transfer the collection rights under the terms and conditions established in Article 200 of the LCSP. For this transfer of rights against the LRC to be effective, it will be necessary for it to have been notified reliably, i.e., by means of documentation that allows accreditation of the conclusion of the contract and the capacity of the parties. interveners.

5. Conditions of performance of the contract

The successful tenderer(s) will be required to sign the corresponding administrative contract. The monitoring process will start with the formalisation of the contract, to that effect, to regulate all the provisions described in the call. These contracts will be signed by LRC and the successful bidder to implement the RaDAR project promoted by LRC-MAR-CSC: Rapid detection of antibiotic resistance and system for the prevention of nosocomial infection caused by multi-resistant microorganisms.

This contract is defined as a supply contract, in with the provisions of the Public Sector Contracts Act.

5.1 Implementation of RaDAR in LRC

Suppliers are expected to add value and not only provide consumables, devices, ICT solutions, training programmes or technical assistance; they are expected to work closely with LRC staff to organisationally integrate the approach to rapid detection of antibiotic resistance and prevention system for nosocomial infection caused by multidrug-resistant microorganisms at Hospital del Mar.

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To facilitate this cooperation, LRC will set up a Monitoring Team, consisting of suppliers and laboratory staff. This team will have the following functions:

1. Monitoring the evolution of the contract performance
2. Carry out all support functions to enhance the achievement of the contract.
3. The approval, follow-up y control of the staff in charge of exclusively perform the tasks related to the contract.

In addition, the successful bidder shall provide the collection of the results of its detection equipment, as well as the data corresponding to the performance of the equipment, in order to allow the monitoring of the project.

In this partnership, the laboratory, together with the hospital, remains the ultimate clinical decision-maker, but these decisions will be reinforced by the provision of services, devices and technology from the supplier.

5.2 Execution of the contract

The contract will be executed in three phases:

1. Implementation
2. Development
3. Evaluation

Upon completion of the implementation and commencement of deployment, the supplier shall ensure the provision of supply at the level of activity specified in the tender documents.

At the end of the deployment phase, LRC will validate the deliverables provided by the supplier and make the final 2% payment, if applicable.

The concept of activity in this tender includes those described in **Annex I.- Annual activity and list of products**:

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Lot 1. Supply of a rapid screening method

- The number of tests required for rapid screening, including equipment and reagents necessary for the detection of multidrug-resistant bacteria established at **5,981 patients** the duration of the contract.
- The number of professionals trained to use the solution, including laboratory professionals and patient-side professionals: about 4-6 professionals.
- Cost of the associated service including devices and consumables, integration with information systems, training for professionals, maintenance, change management, sample handling and provision of data to track the contract and results.

Lot 2. Supply of a method for rapid detection of MMR:

- The number of tests required for the rapid detection of Gram-negative Bacillus resistance mechanisms to cover **1,512 patients** for the **detection of beta-lactamase producing micro-organisms** and **267 patients for the detection of carbapenems resistant micro-organisms** in the duration of the contract.
- Cost of the associated service including consumables, change management, sample handling and provision of data to track the contract and results.

Supply of a comprehensive solution for the complete genomic analysis of multi-resistant micro-organisms: genomic interpretation and epidemiology:

- The number of tests required, in weekly analytical series consisting of 15-20 samples, to carry out isolations of multidrug-resistant bacteria to cover **605 patients**.
- The number of professionals trained with the integrated solution for genomic analysis: about 10 healthcare professionals who will use the solution and be part of the service.
- Cost of the associated service including the devices and consumables, integration with the

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information systems, training for professionals, maintenance, change management, sample management and provision of data to monitor the contract and results.

a. Calendar

The duration of the execution of the contract shall be 10 months. If the contract is signed after 1 May 2025, its duration shall end on 30 June 2026 at the latest, as the duration of the contract is linked to a European project and its funding.

In the following table we have depicted what this approximate distribution of the 10 months of the RaDAR project will look like:

Table 1. RaDAR Schedule for Lots 1, 2 and 3

Month	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
1. Implementation										
2. Full development										
2. Evaluation of results										

In the first month, the Implementation phase, on-site adjustments and acceptance testing will take place to enable the correct integration of the RaDAR solution at each site. From month two to month nine, the full deployment phase will take place, in which the RaDAR solution should be fully operational in the daily healthcare routine. And during the last month, the results of the suppliers will be evaluated, according to the deliverables they will have provided, and the last payment will be made, if applicable, at a maximum of 2%, as described in the following section.

b. Terms of payment

Payment shall be made for each lot:

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1. A monthly variable payment during the period of execution of the contract, included in the development phase (between M2 and M9), corresponding to the unit price offered by the successful bidder (98% of the unit price offered) according to the reagents actually delivered.
2. A final payment in the last month of execution of the contract, set at a maximum of 2% of the price offered by the tenderer on the basis of a risk-sharing scheme in relation to the Key Performance Indicators (KPIs). Payment by results will be made in accordance with the provisions of **Annex III.- Monitoring** of the technical specifications.

This public procurement is linked to the achievement of results and the scalability of the project beyond LRC in the future will be assessed. To this end, contract payments will be linked to the satisfactory completion of the deliverables and milestones set out in the contract, the activities performed and the achievement of the defined results/KPIs, as assessed by the Monitoring Team during the execution of the contract.

c. Penalties

- Failure to meet the maximum implementation deadline of 1 month for Lots 1, 2 and 3 of the Technical Specifications or the shorter deadline offered by the tenderer shall be penalised by 1 % of the base contract tender budget corresponding to the management of the change for each week of delay.
- In the detection systems (Lots 1, 2 and 3), non-compliance with the maximum duration time of the technique, according to requirements L1-A-02, L2-RCARB-04, L2-RCARB-05, LD-RBLEE- 04, LD-RBLEE-05, L3-READN-04, L3-RF-04 of the Technical Specifications or shorter periods offered by the bidder, shall be penalised. *If the non-compliance affects more than 10% of the total number of monthly tests out, a penalty of 1% of the amount of the base bidding budget of the corresponding lot will be applied.*
- Failure to comply with the maximum periods for service maintenance interventions (Lots 1 and 3), as stipulated in the requirements L1-MST-03, L1-MST-06, L1-MST-06, L3-

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MST-06, L1-MST-19 and L3-MST-19, according to the Technical Specifications in the event of more than 2 unresolved incidents per month within the foreseen time at a rate of 1% of the base tender .

- With regard to the assessable requirements of the automatic assessment criteria included in the Table of Characteristics (QC), non-compliance with these will be penalised if they do not comply what is established and positively assessed in points "L1. Detection time", "L1. Visualisation of the growth curve", "L1. Growth capacity", "L1. Environmental quality of the fleet of vehicles used", "L1. Packaging from recycled material or sustainable forest of reagents and consumables"; "L2. Maximum number of detections of other types of carbapenemases", "L2. Number of variants of carbapenemases detected", "L2. Number of international publications where immunochromatography of carbapenemases is evaluated or used", "L2. Maximum number of detections of CTX-M subtypes or other beta-lactamases", "L2. Number of variants of CTX-M or other beta-lactamases", "L2. Number of international publications where BLEE immunochromatography is evaluated or used", "L2. Environmental quality of the fleet of vehicles used", "L2. Packaging from recycled material or sustainable forest of reagents and consumables"; "L3. Proposal for comparative analysis of Core Genome polymorphisms between sequenced isolates", "L3. Proposal for the integration of the results obtained in the CATHAI and HAIVIZ epidemiological visualisation platforms or equivalent", "L3. Minimum time of dedication of personnel, according to the technical schedule of 72h maximum", "L3. Minimum overall dedication time, according to the technical schedule of 72h maximum", "L3. Complementary supply of a library collection equipment, reagents and consumables", "L3. Bioinformatics analysis of phylogenetic relationships between sequenced isolates", "L3. Environmental quality of the fleet of vehicles used", "L3. Packaging from recycled material or sustainable forest for reagents and consumables" at the rate of 1% of the base budget for each point not met.

In the event of any breach of the aforementioned, and once the responsibility of the company awarded the contract has been objectively established, the person responsible for the service will draw up a report expressly stating the facts and conclusions and LRC will propose the imposition of a fine.

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of penalties. After this proposal has been communicated to the company awarded the contract (hearing), the latter may submit any allegations it deems appropriate and the contracting body will decide. Once the decision is final, LRC will deduct the amount of the penalty from the company's monthly invoicing for the following month. These deducted amounts may be cumulative and, in no way, may it be claimed that the company is not defenceless, that it is disproportionate, that the hospital's management is excessive or that the contract has been lost financially.

d. Intellectual property rights and commercial exploitation of results

Contractors will retain ownership of the intellectual property rights (IPR) they generate during RaDAR and will be able to use them to exploit the market potential of their innovative solutions beyond this procurement.

The Contracts to be signed as a result of this tender are oriented towards the development and supply of products protected by an intellectual or industrial property right (IPR).

The contractor shall expressly declare that he is the owner of the IPRs or the legal rights to market these products and shall submit supporting documentation if requested to do so by the Purchaser with whom the contract is concluded. The ownership of pre-existing rights has not changed with this tender.

The Contractor shall be liable for all claims relating to intellectual, industrial and/or commercial property, so that if any claim is made against the Purchaser with whom the Contract has been concluded in accordance with a breach of the obligations prescribed in the preceding paragraph, the Contractor shall bear the costs of judicial or extrajudicial defence that may be incurred.

If, as a result of this claim, the Purchaser with whom the Contract has been concluded is deprived of its ownership or use, it may demand from the Contractor, even after the final acceptance of the service, the total replacement and the cost of the materials, software, procedures or equipment affected by the claim by others, with the same characteristics and qualities to be defined by the Purchaser concerned within the prudentially fixed term. If this deadline has expired and the Employer has not proceeded to replace the corresponding elements, the Purchaser shall, without

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without the need for any additional requirement, it will carry out, by itself or by third parties, the replacement of the materials, procedures, software or equipment affected by the contractor's expenses. All of the above, regardless of the penalties and compensation for damages that may be applicable in accordance with the provisions of this Infringement Request.

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Annex I.- Annual activity and list of outputs

LOT 1 - Supply of a rapid screening method

Description Article	Grouping	Consumption Total contract	Location / place of delivery
BLEE	Determinations	5.981	EMERGENCY - HOSPITAL DEL MAR
Carbapenems	Determinations	5.981	
Analyser	Team	1	

LOT 2 - Provision of a rapid screening method for MMR

Description Article description	Grouping	Consumption Totality of the contract	Location / place of delivery
BLEE	Determinations	1.512	EMERGENCY LABORATORY - HOSPITAL OF THE SEA
Carbapenems	Determinations	267	

LOT 3 - Provision of a comprehensive solution for the complete genomic analysis of multi-resistant microorganisms: genomic interpretation and epidemiology

Description Article	Grouping	Consumption Totality of the contract	Location / place of delivery
Reagents	Insulation	605	LAB PLUS BLUE
DNA extractor	Team	1	
Fluorometer	Team	1	
DNA sequencer	Team	1	
Necessary computer hardware and software of the equipment provided, if is applicable	Hardware and software	1-3	

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Annex III.- Monitoring

The Monitoring Team (MT) will be formed by members of the LRC-MAR-CSC organisation and members of other supporting entities that will provide relevant knowledge and experience, such as AQuAS, project coordinators.

The MT will be in charge of evaluating and reviewing the progress of the development and implementation work of the awarded suppliers.

In addition, the TM will assign a main contact person, called supervisor(s) or contract manager, to the supplier. The supervisor will manage all feedback with contractors through emails, meetings or visits and share it with the monitoring team.

The implementation of the contracts will be monitored and periodically reviewed against expected results, targets, deliverables, outputs and/or outcomes by the monitoring team (MT) and the supervisor during the deployment and overall execution of the RaDAR project.

After contract signature, LRC will organise a local Kick-off meeting with each of the suppliers to establish the start of contract monitoring between the TM and the successful bidders. **The objective of the kick-off meetings will be to detail with each supplier how the monitoring process will be executed during the execution of the contracts, and to agree on the specific necessary information and expertise to be provided.** The supplier is expected to assist in this assessment during the contract by providing this necessary information and expertise.

During the implementation phase of the project (Table 1), different meetings will be held. In this sense, an indicative timetable is proposed:

Table 1. Proposed timetable

	Development phase impleme ntation		Development phase							Phase of evalua tion
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
Signing of the contract Follow-up of the RaDAR team meetings (buyer - buyer - supplier). successful tenderer)	×			×			×			×

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Librables	D1a+D1 b				D2			D3	
Millions	MS1			MS2			MS3		
Payments									
Regular collection of results			R1		R2			R3	

According to the proposed schedule, quarterly meetings (M1, M4, M7 and M10) will be held between the TM and the supplier to follow up and monitor the RaDAR project.

As an example, it is foreseen that before M2, M6 and M10, the supplier should submit D1a. Integrated and prepared solution/D1b.Approval report (SOR), D2. Interim results report and D3. Final project report, respectively, to achieve the end of phase MS1, MS2 and MS3 with the approval of the TM.

The end of the change management, tuning and acceptance testing phase will be closed with the signature and acceptance by the MT of the implementation of each RaDAR solution. It will represent a milestone (MS1) in the project for each contract (M2 contract execution). The follow-up will have two more follow-up milestones:

- MS2, the acceptance by the MT of IOR to M6 after signature of the contract;
- MS3, at the end of the project the acceptance by the MV of EPR in the M10 after the signature of the contract.

Finally, every 3 months (end of M3, M6 and M9 the supplier teams will provide the results).

Table 22. Proposed stages, results and deliverables, milestones and request for results for Batch 1, 2 and 3, indicative

Stage	Duration (dates	Deliverable	Milestones	Results
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	from implementation)		(dates of implementation)
1. Implementation phase	M1	Deliverable 1a. Solution integrated and ready (M1) to operate in daily practice. Acceptance test passed, operational and approved by the MT (M1). Deliverable 1b. Report of start of approval (M1)	MS1. Session Initiation Report (SOR) approved for delivery M1- M2) Every 3 months. M3 (from M1 to M3)
2. Development phase	M2-M9	Deliverable 2. Interim Performance Report (M5)	MS2. Approved Interim Results Report (IOR) (M5-M6) Every 3 months. M6 (from M4 to M6)
3. Evaluation phase	M10	Deliverable 3. Final project report (M9)	MS3. Approved End of Project Report (EOR) (M9-M10) Every 3 months. M6 (from M7 to M9)

Finally, the RaDAR Consortium will monitor economic operators in order to learn and recognise best practices and areas for improvement. This follow-up will include the successful bidders, but also other economic operators that have participated in the WTO and/or RfT.

Possible elements to be monitored that refer to mandatory or assessable requirements are listed (Table 3), and the KPIs to which the successful bidder has committed (Table 4). **In any case, the suitability of these indicators will be monitored and assessed throughout the contract in order to achieve the objectives of the RaDAR project.**

Table 3. Proposed elements to be monitored, indicative

	What elements should be monitored?	When this is requested information		
Acceptance test	Demonstrating the performance of the technical solution in the health sector	M1		
Technological and innovation excellence	Follow-up during each stage:	M3	M6	M10
	A) Report on the impact of integration of the .	M3	M6	M10
	B) Integration report IT.	M3	M6	M10

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	C) Modification of the plan: description of changes, identified risks and actions for mitigate it.	M3	M6	M10
Operations and implementation	Follow-up during each stage:	M3	M6	M10
	A) Status of the management and development report of changes.	M3	M6	M10
	B) Support and reporting system for maintenance: incident report	M3	M6	M10
	C) Quality impact report.	M3	M6	M10
	D) Project management and governance report of contracts.	M3	M6	M10
	E) Risk management report.	M3	M6	M10
	F) Modification of the plan: description of changes, identified risks and actions for mitigate it.	M3	M6	M10
Impact	Follow-up of progress during each stage of the RaDAR performance & monitoring report and suggestion for improvement. Including:	M3	M6	M10
	A) Report on results of implementation of the RaDAR solution	M3	M6	M10
	B) Report on the RaDAR performance and monitoring system including KPI tracking (including user satisfaction) and the automatic criteria.	M3	M6	M10
	C) Report on the Generation of Impact and Evidence	M3	M6	M10
	D) Suggestions for improvement	M3	M6	M10
	E) Modification of the plan: description of changes, identified risks and actions for mitigate it	M3	M6	M10
The recommendations of the TM are being addressed	Modification of the plan: description of changes, identified risks and mitigation actions	M3	M6	M10

Table 4. RaDAR key performance indicators (KPIs) including KPIs and targets for PM10 (pay-for-results)

Lot 1. Supply of a rapid screening method					
	Results	Indicators of key performance indicators (KPIs)	Current status (without the solution RaDAR)	To be results linked to PM10	% of payment (Total 2%)

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Improving clinical outcomes	Reduction of nosocomial infections (NI) in-hospital	Number of in-hospital NIs	267 per year	X	-
	Monitoring of in-hospital colonisations	Number of in-hospital colonisations	300 per year	X	-
Improving process efficiency	Monitoring hospital costs	In-hospital NI patient costs	-	X	-
		Cost of the patient with in-hospital colonisations	-	X	-
Improving pathogen management	Increasing the availability of hospital beds	Beds blocked by isolation in suspected cases of colonisation by BMR	7-20 beds weekly	X	-
	Test	Total number of tests performed with the RaDAR solution	448 patients	X	-
Improving sample management	Quality of the results	Positive Predictive Value (PPV) equal to or greater than 50%	-	✓	0,4%
	Clinical flow	Average response time of the analyser (from the time the sample is introduced to the analyser to the delivery of results available in the LIS)	<8h	✓	0,5 %
		Time from receipt of sample in laboratory to delivery of results available in the LIS	-	X	-
		Number of invalid results <=10%.	<=10%	✓	0,5%
General	Acceptability and usability of the solution by the healthcare professional	Acceptability and usability of the solution by the healthcare professional of the laboratory	-	✓	0,2%
		Clinicians' satisfaction with the integrated solution Lot 1 and 2. (of the clinicians)	-	✓	0,2%

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	Training effectiveness for health professionals Staff training	Total number of professionals trained to use the solution of lot 1	All those involved	X	-
	Maintenance	Total number of occurrences per level of service	-	X	-
		Time to incident resolution per level of service	24h	✓	0,2%

Lot 2. Supply of a rapid screening method for MMR

	Results	Key Performance Indicators (KPIs)	Current status (without the solution RaDAR)	To be linked results to PM10	% of payment (Total 2%)
Improving clinical outcomes	Reduction of nosocomial infections (NI) in-hospital	Number of in-hospital NIs	267 per year	X	-
	Monitoring of in-hospital colonisations	Number of in-hospital colonisations	300 per year	X	-
Improving process efficiency	Monitoring hospital costs	Cost of the NI patient in-hospital	-	X	-
		Cost of the patient with colonisations in-hospital	-	X	-
	Increasing the availability of hospital beds	Beds blocked by isolation in suspected cases of colonisation by BMR	7-20 beds per week	X	-
Improving pathogen management	Test	Total number of tests performed with the solution RaDAR	800 patients	X	-
	Quality of results	Percentage of positive BLEE/Carbapenemases	-	✓	0,5%
	Quality of results	Percentage of concordance with conventional microbiological method for positive cases equal to or higher than 90%	-	✓	0,5%
General	Acceptability and usability of the solution by the practitioner	Acceptability and usability of the solution by the healthcare professional of the laboratory	-	✓	0,5%

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	sanitary	Clinician satisfaction with the solution integrated.	-	✓	0,5%
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Lot 3. Supply of a comprehensive solution for the complete genomic analysis of multi-resistant micro-organisms: genomic interpretation and epidemiology

	Results	Key Performance Indicators (KPIs)	Current status (without the solution RaDAR)	To be linked results to PM10	% of payment (Total 2%)
Improving clinical outcomes	Reduction of nosocomial infections (NI) in-hospital	Number of in-hospital NIs	267 per year	X	-
	Monitoring of colonisations in-hospital	Number of in-hospital colonisations	300 per year	X	-
	Monitoring hospital costs	Cost of the NI patient in-hospital	-	X	-
		Cost of the patient with colonisations in-hospital	-	X	-
	Increasing the availability of hospital beds	Beds blocked by isolation in suspected cases of colonisation by BMR	7-20 beds per week	X	-
Improving pathogen management	Clinical flow	Compliance with the technical timetable (proposed duration) by the successful bidder with a tolerance of 8h	-	✓	0,5%
General	Acceptability and usability of the solution by the healthcare professional	Acceptability and usability of the solution by the health professional	-	✓	0,5%
		User satisfaction with the solution (health care professionals and patients)	-	✓	0,5%
	Training effectiveness for health professionals	Total number of professionals trained to use the RaDAR solution	All those involved	X	-
	Maintenance	Total number of incidents of the solution comprehensive analytics	-	X	-
		Response time of the successful tenderer to the	48h	✓	0,5%

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