

The Hashemite Kingdom of Jordan

TELECOMMUNICATIONS REGULATORY COMMISSION - TRC



No. /2023

Advanced Technical Training on Verifying Telecom Equipment
Compliance to Regulatory Standards

التدريب الفني المتقدم في إجراءات مطابقة أجهزة الاتصالات للمواصفات والمعايير الدولية
المعتمدة

Deadline for submission of offers is Hrs. of / /2023

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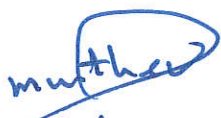
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❖ يتوجب على المناقص:

- تقديم الكفالة المالية للدخول للعطاء بقيمة ٣% من القيمة الاجمالية للعطاء.
- قراءة جميع الأوراق المرفقة في دعوة العطاء.
- تعبئة قائمة المطابقة المرفقة (المرفق ١) لجميع بنود العطاء من الفقرة أدناه وحتى نهاية الشروط وبيان الرأي (مطابق، غير مطابق، مطابق جزئي) وإضافة أي ملاحظات توضيحية أو معززات تؤكد مطابقة المتطلبات والشروط في دعوة العطاء.

2 Introduction

The Telecommunications Regulatory Commission (TRC) was established by means of the Telecommunications Law No. 13 of 1995, and its amendments as an independent jurisdictional body tasked with regulating the telecommunications and information technology sectors.

In accordance with the Telecommunications Law No (13) of 1995 and its amendments, The Commission shall undertake according to Article (6/k)

“To establish technical rules and standards for the connection of wireline and wireless equipment, including Telecommunications Terminal Equipment with the Public Telecommunications Networks, and to set the regulation procedures for importing such equipment into the Kingdom, taking into consideration the bases prescribed in the effective Standards and Metrology Law”

In addition to that, The Commission shall undertake according to Article (6/l) “To grant Type Approvals and to regulate the import and usage of Telecommunications Terminal Equipment required for individual and private uses, or for use in specific zones, and to monitor such usage”.

In this regard, the following Articles of Telecommunications Law directed TRC in the way:

Article (48):

- a. The Commission shall set technical rules and standard specifications applicable to Telecommunications and Telecommunications Terminal Equipment to ensure that they do not cause damage to telecommunications networks or services or to public health and safety, or the environment. When setting such rules and specifications, the Commission shall coordinate with other bodies that set specifications in the

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Kingdom, including the Jordanian Institute for Standards and Metrology, and shall publish them in the Official Gazette and in two local daily newspapers and other media so as to make them available to interested parties.

- b. No person who provides Telecommunications services, supplies Telecommunications equipment or sells them may use, supply or sell any telecommunications equipment that does not comply with the technical rules and standards set by the Commission.

Article (49):

The importer or anyone wishing to import Telecommunications equipment of which the specifications have not been announced may apply to the Commission for its approval prior to the importation of such equipment, provided that his application be supported by the manufacturing company's manual indicating their specifications, In coordination with the concerned parties.

Article (50):

The manufacturing of any Telecommunications equipment prepared to be marketed in the Kingdom shall be subject to the standard specifications approved by the competent parties.

Article (51):

Based on the recommendation of the Chairperson, the Board shall issue the instructions that specify the conditions and procedures for obtaining approval for entry into the Kingdom of Telecommunications equipment and Telecommunications Terminal Equipment, as well as for their use, retention, and sale

Based on the above, the Telecommunications Regulatory Commission (TRC) of Jordan seeks to engage with a qualified Training & Testing Company that provides professional industry Training.



3 Scope of Services (SoS)

The Telecommunications Regulatory Commission (TRC) of Jordan is considering to procure a technical training services from one of the internationally accredited testing laboratories to equip its staff with both the theoretical and practical Knowledge to study, evaluate and verify the full compliance of radio and non-radio telecom equipment with the relevant standards issued by the European Telecommunications Standards Institute (ETSI). Offered training shall be conducted at the testing laboratory premises to train TRC's staff on performing different testing tasks and procedures.

4 Compliance Matrix Submission

The bidder(s) is kindly requested to provide A clause-by-clause statement of compliance matrix showing their proposed offer compliance and/or non-compliance to each item as attached below. Failure to submit the requested compliance matrix will result in discarding the bidder proposal from evaluation.

5 Documents Comprising the Bid

The Bid prepared by the Bidder shall comprise the following components:

- Documents indicating that the Bidder and/ or service provider is financially and technically qualified to perform the contract;
- Valid certificate of accreditation for the Testing laboratory issued by relevant International Laboratory Accreditation agency.
- Valid authorization or certificate from an International Laboratory Accreditation agency to perform and generate different regulatory testing reports including those for the radio frequency, Electromagnetic compatibility and safety against ETSI standards.



6 Bid Prices and Payment

- 6.1 The Payment will be fully paid to the bidder after signing the purchase order with TRC and before starting the implementation of the training. On the other hand, the bidder shall provide a Bank Guarantee bond with same amount paid by TRC, this Bank Guarantee bond will be given back to the bidder at the end of the successful full implementation and acceptance of the training. Bank guarantee bond shall reflect the cost of conducting the training for one group.
- 6.2 Prices shall be quoted in Jordanian Dinars (JD) and includes all applicable taxes.
- 6.3 Offers shall be provided in TWO formats namely: Hardcopy (two copies) and Softcopy.
- 6.4 The bidder shall provide financial quotation to train one group consist of six engineers.
- 6.5 Financial quotation shall fully cover all costs associated with conducting the training including the TRC's staff training, economy flights tickets, accommodation, two meals, all transportation from airport to hotel and vice versa, from hotel to training facilities and vice versa, entry visa issuance fees, etc).

7 Applicable Law

The bidder and the contract shall be governed by interpreted in accordance with the laws and Legislations of the Hashemite Kingdom of Jordan and in the Jordanian-related courts only. The bidder or supplier by participating in this tender process and providing related Offers acknowledge his/ their acceptance of these conditions.

8 General Requirements

- 8.1 The Bidder must be a registered Jordanian company having a long-term presence and experience in providing different Technical Training services. a copy of the company registration certificate and professional license must be provided and attached.



- 8.2 The Bidder shall provide his/ her company profile and prove his experience history for at least one year dealing with public and/or private entities.
- 8.3 The Service Provider shall be a well-recognized company specialized in the field of providing different testing and consulting services related to telecommunications equipment testing for different wireless technologies such as low power short range devices (SRD), high power long range devices, Wireless Local Area Network (WLAN), Low power Wide area Networks (LPWAN), LTE/5G in accordance with ETSI and FCC standards. The Service Provider shall document and provide evidence for meeting these requirements.
- 8.4 The service provider/bidder shall provide all needed training requirements personnel, software, and hardware necessary to fully execute the training project scope of work.
- 8.5 The training shall include introductory material for testing wire and wireless equipment in accordance with ETSI and FCC Standards.
- 8.6 **The service provider shall provide the outline (training agenda) of the training, in which the training topics are divided over 5 days, as an integrated part of the offer.**
- 8.7 The Bidder/service provider shall provide course material in electronic format prior to training.
- 8.8 The dates for the training will be agreed upon between the bidder and TRC.
- 8.9 Training certificate for the attendees shall be provided.

9 Specific Training Technical Requirements

- 9.1 Presentation and Introduction to Testing and Certification requirements.
- 9.2 International Type Approval General Requirements: Testing and Certification.
- 9.3 Regulatory framework overview.
- 9.4 Introduction on ETSI, CENELEC, CEN EU standardization bodies and FCC bodies, commonalities and differences between them.
- 9.5 Europe – Radio Equipment Directive 2014/54/EU (RED).



- 9.13.1 How to read, and understand a standard (scope, technical terms, tests methods, limits uncertainties)
- 9.13.2 How to set up a technical report for SAR.
- 9.14 Site visit to testing lab facilities and giving an overview of the measurements in practice.
- 9.15 Hands on experience in attending live training on standards, where all of the standards on the measurements and testing are deployed and trainees understand their interaction together in testing the equipment.
- 9.16 Introduction on how to accredit laboratories in accordance with the international testing agencies such as the "ILAC".

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- 9.6 Conformity assessment procedures and how to prepare a declaration of conformity (DoC).
- 9.7 International best practice Certification process / RF Approval Guide such as USA, Canada, Etc.
- 9.8 Brief description of the applicable type approval processes in other countries and any databases they have that record any noncompliance of the devices to the ETSI, CENELEC, CEN EU, and FCC standardization.
- 9.9 Approval procedures: C1PC, C2PC, different KDB procedures, modular approval, etc.
- 9.10 Radiofrequency (RF): Compliance with the essential requirements:
 - 9.10.1 How to read, and understand a standard (scope, technical terms, tests methods, limits uncertainties), examples on RF for different technologies (2G,3G, 4G, 5G, WiFi, RFID, DECT, Bluetooth, IoT, LoRA, Zigbee ... etc)
 - 9.10.2 How to set up a technical report for radio testing.
 - 9.10.3 How to verify that a test report is genuine and not counterfeit (any web tool to use for that purpose).
- 9.11 Electromagnetic Compatibility (EMC): Compliance with the essential requirements:
 - 9.11.1 How to read, and understand a standard (scope, technical terms, tests methods, limits uncertainties)
 - 9.11.2 How to set up a technical report for EMC.
- 9.12 Safety Testing and Environmental Testing: Compliance with the essential requirements of the RED and Low Voltage Directives.
 - 9.12.1 Summary of testing standards (read and understand safety standards)
 - 9.12.2 How to set up a technical report for safety.
- 9.13 SAR Testing: Compliance with the essential requirements:

* 3/11/2020 11:00 AM

المرفق (١): قائمة المطابقة Compliance Matrix

No.	Clause Reference in Tender Documents	Compliance YES/ PARTLY/ NO	Notes
2	Introduction (Noted)		
3	Scope of Services (SoS) (Noted)		
4	Compliance Matrix Submission		
5	Documents Comprising the Bid		
6	Bid Prices and Payment		
6.1			
6.2			
6.3			
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7	Applicable Law		
8	General Requirements		

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9	Specific Training Technical Requirements		
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