Standard Bidding Document

Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning (Goods)

National

Single Stage-Two Envelope

CORRIGENDUM # 1	CORR-P147390-001
Initiation Date	October 21, 2026

October 21, 2026

Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited),Manager
Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory
Phone: +92-334-531-4503, Email: procurement@pral.com.pk

Table of Contents

REQUEST FOR BIDS 1

Instructions to Bidders 3

Bid Data Sheet 24

Bids Data Sheet (BDS) 25

Eligibility Criteria 30

Evaluation Criteria 31

Items/Lots 35

Related Services of Goods: 41

Items/Lot Specification 42

Price Schedule 53

General Conditions of Contract 55

Special Conditions of Contract 66

Bid Securing Declaration 71

Contract Form 73

Integrity Pact 76

Performance Guarantee Form 78

Annexure 81

Technical Proposal 82

Annexure Corrigendum 82

Financial Proposal 82

Procurement Forms 83

Additional Forms and Documents 86

REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited)** has reserved Funds for the procurement planned for FY **2026-27**. The **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the " **Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning**" with the reference of **"P147390"**

2. The **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Pay Order** or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/147390** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before

Wednesday, October 28, 2026 03:00 PM. E-bids will be opened using **EPADS v2.0** on the same day at **Wednesday, October 28, 2026 03:30 PM** . Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS v2.0,** may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc**

In terms of Rule 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.gov.pk**).

Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager
Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory
+92-334-531-4503
procurement@pral.com.pk

Instructions to Bidders

A. Introduction

1.Scope of Bids

1.1 The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids **through EPADS v2.0** for the provision of Goods as specified in the BDS and **in Section V – Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. The successful Bidders will be expected to provide the goods within the specified period and timeline(s) as stated in the **BDS**.

2. Source of Funds

2.1 Source of funds is referred in Clause-2 I of Invitation for Bids.

3. Eligible Bidders

3.1 A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.

Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.

Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any

instructions issued by the Authority.

(The limit on the number of members of JV or Consortium or Association may be prescribed in BDS, in accordance with the guidelines issued by the PPRA).

3.2 The invitation for Bids is open to all prospective suppliers, manufacturers, or authorized agents / dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidders keeping in view the requirement of that business.

3.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.

2. have controlling shareholders in common; or

3. receive or have received any direct or indirect subsidy from any of them; or

4. have the same legal representative for purposes of this Bid; or

5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

6. Submit more than one Bid in this Bidding process.

3.4 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;

2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;

4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or submission of false or misleading information or performance failure or involved in disrupting procurement process or due to breach of bid Securing Declaration.

3.5 As and when required, bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6 Bidders shall submit Bids relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten (10) percent of the Bid price is envisaged.

4. Eligible Goods and Related Services

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are the countries declared ineligible by the Federal Government.

5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

5.2 **The Bidder shall not engage a subcontractor for any portion of the contract if the value of such subcontracting exceeds thirty percent (30%) of the total contract amount.**

6. Cost of Bidding

6.1 Any cost incurred by the bidder relating to the preparation and submission of its Bid shall be borne by the bidder, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. Bidding Documents

7. Contents of Bidding Document

7.1 The Goods required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 10.1** include:

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

Section IX Integrity Pact

Section X Declaration of Beneficial Ownership Information.

7.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding documents. Failure to furnish all the information required in the Bidding documents through EPADS v2.0 will be at the Bidder’s risk and may result in the rejection of its Bids.

8. Clarification of Bidding documents

8.1 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through EPADS v2.0**.**

8.2 The Procuring Agency will within two (02) working days after receiving the request for clarification, respond to any request for clarification through EPADS v2.0 provided that such request is received not later than three (03) days, prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 The Procuring Agency's response will be forwarded to all identified Prospective Bidders through EPADS v2.0, including a description of the inquiry,

but without identifying its source.

8.4 Should the Procuring Agency deem it necessary to amend the Bidding document as a result of a clarification, it shall do so following the procedure under **ITB 9.**

8.5 If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding document.

8.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS v2.0. Any modification to the Bidding documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 9. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda through EPADS v2.0.

9.2 The Procuring Agency shall promptly publish the addendum through EPADS v2.0.

Any addendum issued including the notice of any extension of the deadline shall also be communicated through EPADS v2.0 to all the bidders who have already submitted their bids. Such bidders shall have the right to withdraw their already submitted bid and re-submit the revised bid prior to the original or extended bid submission deadline.

9.3 To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids through EPADS v2.0:

Provided that the Procuring Agency shall extend the deadline for submission of Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

C. Preparation of Bids

10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS**.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

11. Documents and samples Constituting the Bid

11.1 The Bid prepared by the Bidder shall constitute the documents required in the **BDS**.

Details of sample(s) where applicable and requested in the BDS.

Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process;

Documentary evidence established in accordance with **ITB 03** that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;

Documentary evidence established in accordance with ITB 12 that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;

Bid security or Bid Securing Declaration furnished in accordance with **ITB ---.**

12. Documents Establishing Eligibility of the Goods and Conformity to Bidding documents

12.1 To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods

provided conform to the technical specifications and standards.

13. Documents Establishing Eligibility and Qualification of the Bidder

13.1 Pursuant to **ITB 10,** the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the Bidding process and/or its qualification to perform the contract if its Bid is accepted.

14. Form of Bid

14.1 The Bidder shall fill the Form of Bid furnished in the Bidding document. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.

15. Bid Prices

15.1 The Bid Prices quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the Bidding documents.

15.2 **All items in the Schedule of Requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced and neither explicitly denied, their prices shall be construed to be included in the prices of other items.**

15.3 In the event that any item(s) in the Price Schedule are not quoted, and such omission is determined by the Procuring Agency not to materially affect the responsiveness of the Bid, the Procuring Agency may, for the sole purpose of bid evaluation and comparison, assign a price to the unquoted item(s) in accordance with the following methodology:

(a) The assigned price shall be the average of the prices quoted for the same item(s) by all substantially responsive bidders; or

(b) In cases where no comparable quotations are available, the Procuring Agency shall apply the corresponding item price from its duly approved cost estimate for evaluation purposes.

The prices so assigned shall be utilized exclusively for bid evaluation and comparison, and shall not, under any circumstances, be incorporated into or form part of the Contract Price.

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 13.1** shall be the total price of the Bid.

15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the Goods it proposes to provide under the contract.

15.6 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected.

16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 42 (2) of the Public Procurement Rules, 2026.

17. Bids Validity Period

17.1 Such extensions may be more than one time but the total period of such extension shall not exceed the original bid validity period.

17.2 Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive**.** The period of Bid validity will be determined from the complementary Bid securing instrument, i.e. the expiry period of Bid Security or Bids Securing Declaration as the case may be.

The procuring agency shall ordinarily be under an obligation to process and evaluate the bid and to issue letter of award within the stipulated bid validity period.

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids through EPADS v2.0,. The Bid Security provided under **ITB 17** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

18. Bid Security or Bid Securing Declaration

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026.

18.2 The original Bid Security shall be enclosed within the sealed envelope and to be submitted physically before closing time for submission of bids. Whereas, scanned copy of bid security shall be uploaded electronically through EPADS v2.0 before closing hours for submission of bids.

18.3 The Bidder who failed to submit the original Bids security before the submission deadline shall be disqualified straightaway.

18.4 The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to **ITB 18.7.**

18.5 The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:

a) a bank guarantee, a bank draft, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency;

b) a cashier’s or certified cheque; or

c) another security if indicated in the BDS.

The Bid Security shall be valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18.7** are invoked.

18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the procuring agency pursuant to **ITB 17.** The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security documents, after whichever of the following that occurs earliest:

a. the expiry of the Bid Security;

b. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;

c. the rejection by the Procuring Agency of all Bids;

d. cancellation of procurement proceedings.

e. the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bid document stipulates that no such withdrawal is permitted.

18.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract**,** or furnishing the Performance Guarantee.

18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed:

a. if a Bidder:

b. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 16.2**; or

c. does not accept the correction of errors**;** or

d. in the case of a successful Bidder, if the Bidder fails:

e. to sign the contract; or

f. to furnish Performance Guarantee**.**

19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0.

20. Format and Signing of Bid

20.1 The Bidder shall prepare and submit Bids with due diligence after carefully reading all the terms and condition before bid submission deadline through EPADS v2.0.

D. Submission of Bids

21. Submission of Bids through EPADS v2.0 before bid submission deadline.

21.1 The Technical and Financial Bids, shall be submitted electronically through EPADS, before bid submission deadline. The bid submission option shall be automatically disabled once the deadline is over.

22. Deadline for Submission of Bids

22.1 Bids shall be received by the Procuring Agency through EPADS v2.0 before bid submission deadline.

22.2 The Procuring Agency may, under exceptional circumstances, extend the deadline for the submission of Bids, after recording reasons in writing and in an equal opportunity manner.

In such case, all rights and obligations of the Procuring Agency and the Bidders that were previously governed by the original deadline shall thereafter be subject to the revised deadline.

E. Opening and Evaluation of Bids

23. Opening of Bids

23.1 The respective Bid Evaluation Committee of the Procuring Agency shall open all Bids through the EPADS v2.0, on the date and time specified in the Bid Data Sheet (BDS).

23.2 The respective Bid Evaluation Committee **shall generate minutes through EPADS v2.0 containing brief details of bid opening process.** The record of the Bid opening shall include, as a minimum: the name of the Bidder, the Bid price if applicable, and the presence or absence of a Bid Security or Bid Securing Declaration.

23.3 The procuring agency shall live broadcast the opening of bids on national media or on their website or digital channels, if the volume of procurement exceeds five hundred million rupees in case of goods and services and one thousand million rupees in case of works.

23.4 In case the date of opening of bid has been declared as public holiday or the procuring agency fails to open bid due to any EPADS v2.0 related issues, the submission and opening of bids shall be shifted to the next working day at the same time.

23.5 In case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Bid respective Evaluation Committee.

23.6 No bid will be rejected at the time of bid openning except for bids whose original bid security has not been provided to the procuring agency before bid submission deadline.

24. Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of Bids of the Bidders, the respective Bid Evaluation Committee may, ask any Bidder for a clarification of its Bid including breakdown of prices.

24.2 The request for clarification and the response shall be sought through EPADS v2.0 before **three days prior to the deadline for submission of bids.** No change in the prices or substance of the Bids shall be sought, offered, or permitted.

24.3 The alteration or modification in the bids which in any way affect the following parameters will be considered as a change in the substance of a Bid:

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;
5. terms and conditions of Bidding documents.
6. change in the ranking of the Bidder

24.4 From the time of bid(s) opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bids it should do so through **EPADS v2.0**.

25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the respective Bid Evaluation Committee will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;

2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;

3. is accompanied by the required securities; and

4. is substantially responsive to the requirements of the Bidding documents.

25.2 The respective Bid Evaluation Committee's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

25.3 A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one that: -

1. affects in any substantial way the scope, quality, or performance of the Goods;

2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or

3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.4 If a Bid is not substantially responsive, it will be rejected by the respective Bid Evaluation Committee and may not subsequently be evaluated for complete technical responsiveness.

26. Examination of Terms and Conditions; Technical Evaluation

26.1 The respective Bid Evaluation Committee shall examine the Bids to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

26.2 The respective Bid Evaluation Committee shall evaluate the technical aspects of the Bids submitted, to confirm that all requirements specified in Schedule of Requirements and Technical Specifications of the Bidding documents have been met without material deviation or reservation.

26.3 If after the examination of the terms and conditions and the technical evaluation, the respective Bid Evaluation Committee determines that the Bid is not substantially responsive in accordance with **ITB,** it shall reject the Bid.

27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

1. if there is a discrepancy between unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the respective Evaluation Committee there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

27.2 The amount stated in the Bid will be adjusted by the respective Bid Evaluation Committee in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bids Securing Declaration may be executed.

28. Conversion to Single Currency

28.1 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency in accordance with Rule 42(2) of Public Procurement Rules,2026.

29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria prescribed in the Bidding Documents in accordance with Rule 11, 12 and 13 of the Public Procurement Rules, 2026.

29.2 While evaluating the bids, the procuring agency shall consider the following:

i. Bids will be evaluated on lump sum bid basis or items wise or Lot wise (contracts), as specified in the BDS; and the Bid Price;

ii. correction of arithmetic errors in accordance with ITB 27;

30. Domestic Preference

30.1 The respective Bid Evaluation Committee shall evaluate and compare bids, allow for preference to domestic bidders, while competing with the international bidders in accordance with the policies of the Federal Government.

The percentage of preference, to be accorded shall be clearly mentioned in the bidding documents under the bid evaluation criteria.

31. Determination of Successful Bid

31.1 **Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the BDS or prescribed in the separate section titled as Evaluation Criteria.**

31.2 **Least Cost Based Selection (LCBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered Successful Bid.

31.3 **Quality and Cost Based Selection (QCBS)**
In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

31.4 **Quality Based Selection (QBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk

management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second highest bidder and so on.

31.5 The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:

1. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or

2. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in Evaluation Criteria to be evaluated while determining the quality of the goods.

31.6 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(xxviii) of the Public Procurement Rules, 2026.

32. Abnormally Low Financial Bids

32.1 An abnormally low bid is a bid that, in light of the Procuring Agency's cost estimate, market conditions, or other received bids, appears to be unrealistically low and may not be sustainable for successfull contract execution.

32.2 **Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Successful Bids or as a part of the post-qualification process.**

32.3 The Procuring Agency may reject an Abnormally low financial bid in accordance with Rule 43 of the Public Procurement Rules, 2026.

32.4 In order to identify the Abnormally Low Bids (ALB) following approaches can be considered to minimize the scope of subjectivity:

1. Comparing the Bid price with the cost estimate;

2. Comparing the Bid price with the Bid(s) offered by other Bidders submitting substantially responsive Bids; and

3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.5 The respective Bid Evaluation Committee will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

32.6 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding documents shall not be used in the evaluation of the Bidders' qualifications.

32.7 Respective Bid Evaluation Committee may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

Explanation: The Certificate shall be furnished by the Bidder. The Bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

32.8 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the respective Bid Evaluation Committee will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.

F. Award of Contract

33. Criteria of Award

33.1 The Procuring Agency will award the Contract to the Bidder whose Bids has been determined to be substantially responsive to the Bidding documents and who has been declared as Successful Bidder.

34. Negotiations

34.1 In accordance with Rule 52A of Public Procurement Rules, 2026, without changing the cost and scope of work or services, the procuring agency may

negotiate with the successful bidder (with a view to streamline the work or task execution, at the time of contract finalization) on methodology, work plan, staffing and special conditions of the contract.

There shall be no limitation on the successful bidder offering voluntary reduction in bid price without affecting the quality or scope of the procurement.

35. Procuring Agency's Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 45 of the Public Procurement Rules, 2026.

36. Cancellation of Procurement

36.1 The procuring agency reserves the right to cancel the procurement proceedings in accordance with Rule 46 of the Public Procurement Rules, 2026.

37. Procuring Agency’s Right to Vary Quantities at the Time of Award

37.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the **quantity of** Goods originally specified in these Bidding documents provided this does not exceed **by** 15%, without any change in unit price or other terms and conditions of the Bids and Bidding documents.

38. Notification of Award

38.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on EPADS v2.0 in accordance with Rule 48 of the Public Procurement Rules, 2026.

The Bidder whose Bids has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bids/Bid Validity period. The Letter of Award will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the delivery of Goods as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

38.2 The Letter of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Guarantee and signing of the contract.

39. Signing of Contract

39.1 Promptly after issuance of Letter of award, Procuring Agency shall send the successful Bidder the draft Contract, incorporating all terms and conditions as agreed by the parties to the contract.

39.2 Immediately after the Redressal of grievance by the GRC (if any), and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

40. Corrupt & Fraudulent Practices

40.1 Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.

F. Grievance Redressal & Complaint Review Mechanism

41. Constitution of Grievance Redressal Committee

41.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 65 of the Public Procurement Rules, 2026 read with Redressal of Grievances Regulations, 2021.

In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 65(7) of the Public Procurement Rules, 2026 to be read with Redressal of Grievances Regulations, 2021.

G. Mechanism of Blacklisting

42. Mechanism of Blacklisting

42.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Rule 25 of the Public Procurement Rules, 2026.

42.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 25 (6) of the Public Procurement Rules, 2026 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.

43. Contract Management

43.1 For each procurement, the Procuring Agency shall designate a Contract Manager, who shall be duly responsible for the efficient management and administration of the contract in strict compliance with the provisions set forth under Rules 58, 59, and 60 of the Public Procurement Rules, 2026.

44. Inspection of goods and evaluation of services.

44.1 The Inspection Committee or the Firm shall have the right to conduct inspections of the goods in accordance with Rule 61 of the Public Procurement Rules, 2026.

45. Socio-economic development.

45.1 In accordance with Rule 63 of the Public Procurement Rules, 2026, preference may be granted to small and medium enterprises and marginalized groups in accordance with the policies notified by the Federal Government.

46. Environmental objectives

46.1 As per Rule 64 of the Public Procurement Rules, 2026, the procuring agency may seek to procure goods with a reduced environmental impact throughout their life cycle when compared to goods services with the same primary function that may otherwise be procured.

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number
ITB Number
Amendments of, and Supplements to, Clauses in the Instruction to Bidders

A. Introduction

BDS Clause Number 1
ITB Number 1.1

Name of Procuring Agency: **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited)**

The subject of procurement is: **Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Wednesday, December 30, 2026**

BDS Clause Number 2
ITB Number 2.1

Source of funds [Enter source of funds]

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P147390**

Identification Number:

BDS Clause Number 3
ITB Clause Number 3.1

Eligible Bidder [Enter eligibility of bidder]

JV/Consortium or Association Allowed: **No**
Number of JV/Consortium Members: **Nil**
see section of eligibility criteria.

B. Bidding Documents

BDS Clause Number 4

ITB Clause Number 4.1

Eligible goods and related services [Enter requirements for eligible goods and related services, if any]

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Sunday, October 25, 2026
Pre-Bid Meeting: Monday, October 12, 2026 10:00 AM
Venue: SAARC Office, G-10, Islamabad

ITB Number 8.2

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Sunday, October 25, 2026
Pre-Bid Meeting: Monday, October 12, 2026 10:00 AM
Venue: SAARC Office, G-10, Islamabad

ITB Number 8.3

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Sunday, October 25, 2026
Pre-Bid Meeting: Monday, October 12, 2026 10:00 AM
Venue: SAARC Office, G-10, Islamabad

ITB Number 8.5

Pre-bid meeting will be/will not be held [Tick the appropriate] If yes write down the time, and date of the pre-Bid meeting:
[The meeting should take place not later than one weeks before the deadline for Bid submission.]

C. Preparation of Bids

BDS Clause Number 5
ITB Number 10.1

The Language of all correspondences and documents related to the Bids shall be in: **English**

List of documents required along with the bid: No

BDS Clause Number 6
ITB Number 11.1

Documents required / not required with bid submission [enter list of documents] Samples required / not required with the bid [Enter the names and number of samples]
Items/Lots and their related documents:
See section items and Lots

BDS Clause Number 7
ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8
ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9
ITB Number 16.1

Currency of the Bids shall be : **PKR**

BDS Clause Number 10
ITB Number 17.1

The Bids/Bid Validity period shall be: **90 Days**

BDS Clause Number 11
ITB Number 18.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
Instrument of Bid Security shall be in the Name of : **Pakistan Revenue Automation Pvt Limited**
The Bid Security shall be in the form of: **Pay Order**

ITB Number 18.2

The address for submission of original bid security is [Insert the address for bid security submission]

D. Submission of Bids

BDS Clause Number 12
ITB Number 20.1

Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory before bid submission deadline.

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Wednesday, October 28, 2026 03:00 PM**

Day *:* ***Wednesday***

Date: ***Wednesday, October 28, 2026***

Time *:* ***03:30 PM***

E. Opening and Evaluation of Bids

BDS Clause Number 13
ITB Number 23.1

The Bids opening shall take place on **EPADS v2.0**.

Day *:* ***Wednesday***

Date: ***Wednesday, October 28, 2026***

Time *:* ***03:30 PM***

ITB Number 29.2

The procuring agency shall consider the following:
lump sum bid basis; or
items wise; or
Lot wise (contracts),

ITB Number 30.1

BDS Clause Number 14
ITB Number 31.1

Domestic Preference [applicable / not applicable]

ITB Number 31.2

Selection technique adopted will be:
The Procuring Agency shall use any of the following evaluation techniques for determination of successful bid.

Least Cost Base Selection (LCBS)
Quality and Cost Based Selection (QCBS)
Quality Based Selection (QBS)
[Insert the Evaluation Technique]

Selection technique adopted will be: **Least Cost Based Selection (LCBS)**
see Evaluation Criteria

F. Review of Procurement Decisions

BDS Clause Number 15
ITB Number 41.1

Grievence against this procurement shall be submitted online on EPADS v2.0.

Arbitrator shall be appointed by mutual consent of the both parties.

ITB Number 42.2

The Address of PPRA Grievance Redressal Appellate Committee to submit a copy of grievance:

Grievance Redressal Appellate Committee,
Public Procurement Regulatory Authority
1st Floor, G-5/2, Islamabad, Pakistan
Tel: +92-51-9202254

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
FBR (NTN) FBR (GSTN)

Eligibility Criteria	Document
1) Evidence of the bidding firm/company’s registration/incorporation. Copy of certificate of incorporation/company registration must be attached	Yes
2) Should be active taxpayer on the date of submitting the bid.Status report must be attached	Yes
3) Affidavit on stamp paper, declaring that company is not blacklisted by any Telco/FMCG/autonomous body/government/semi government or any organization. Affidavit on stamp paper original signed & stamped.	Yes

Evaluation Criteria

Eligibile bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	100
Passing Marks	70
Technical Evaluation Criteria	

Client Portfolio/ Relevant Experience (Quantitative)(Doc Required) Supplied & installed similar nature of Equipment to more than 10 local/international/multinational clients including public sector or private sector organizations: Documentary proof: (Purchase/Service order/ copies of contract with contact details of clients should be furnished, along with completion certificates *Multiple projects with same client will be counted as one. Note: A Prospective bidder who has submitted completion certificates for the post project has to submit 25% satisfactory certificates **(15)** Supplied & installed similar nature of Equipment to more than 06 but less than or equal to 10 local/international/multinational clients including public sector or private sector organizations: Documentary proof: (Purchase/Service order/ copies of contract with contact details of clients should be furnished, along with completion certificates *Multiple projects with same client will be counted as one. Note: A Prospective bidder who has submitted completion certificates for the post project has to submit 25% satisfactory certificates **(10)** Supplied & installed similar nature of Equipment to more than 03 but less than or equal to 06 local/international/multinational clients including public sector or private sector organizations: Documentary proof: (Purchase/Service order/ copies of contract with contact details of clients should be furnished, along with completion certificates *Multiple projects with same client will be counted as one. Note: A Prospective bidder who has submitted completion certificates for the post project has to submit 25% satisfactory certificates **(5)**	15
Compliance to the Technical Specifications and scope of work mentioned in the bidding document	
100% Compliance to the Specifications and scope of work / services mentioned in the bidding document along with OEM eligibility criteria mentioned above as OEM Eligibility Note: If the quoted product is fully complied with the specifications mentioned in the Scope of Work, full Marks will be given, else zero (0). (Bidder to share the copies of technical literature, Data Sheet & Brochures from the manufacturer, which may be verified on the Internet) (Quantitative)(Doc Required)	40
Site Survey	
Site Survey (Quantitative)(Doc Required)	10

Presence of the OEM or OEM’s authorized Tier 1/Highest level partner in Pakistan for Warranty & technical Support	
Presence of Principal/OEM or OEM’s authorized Tier 1 partner in Pakistan for equipment warranty & Support Services: Presence of Principal/OEM or OEM’s authorized Tier 1 partner in Pakistan for equipment warranty & Support Services 10 A Written confirmation from Principal/OEM on their Letterhead is required confirming their or their authorized tier 1 partner presence in Pakistan for equipment warranty & Support services. (Quantitative)(Doc Required)	10
Compliance to the delivery timelines for the supply, installation, commissioning of servers	
The Delivery Timelines for the supply, installation, commissioning within is 08-10 weeks after issuance of Purchase Order, Bidder to share compliance: A written confirmation on Company’s letterhead is required. (Quantitative)(Doc Required) The Delivery Timelines for the supply, installation, commissioning within is 08-10 weeks after issuance of Purchase Order, Bidder to share compliance: A written confirmation on Company’s letterhead is required. **(10)** 10-12 weeks **(5)**	10
Financial Turnover	

Annual turnover /revenue of the company is greater than or equal to 400 million (PKRs): Documentary proof required (tax returns or financial audited report from registered firm/company for the year 2023-2024 or latest) (Quantitative) (Doc Required) Annual turnover /revenue of the company is greater than or equal to 400 million (PKRs): Documentary proof required (tax returns or financial audited report from registered firm/company for the year 2023-2024 or latest) **(15)** Annual turnover /revenue of the company is less than 400 million (PKRs) but greater than or equal to 300 million (PKRs): Documentary proof required (tax returns or financial audited report from registered firm/company for the year 2023-2024 or latest) **(10)** Annual turnover /revenue of the company is less than 300 million (PKRs) but greater than or equal to 200 million (PKRs): Annual turnover /revenue of the company is greater than or equal to 400 million (PKRs): Documentary proof required (tax returns or financial audited report from registered firm/company for the year 2023-2024 or latest) **(5)**	15

Items/Lots

Lot Title : Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office

Bid Security : 500000 PKR

Item	UNSPSC	Delivery Schedule	Quantity
Type I (POE++) Layer II, 48 Port Access Switches	Network switches	**Address:** SAARC Office, G-10 Islamabad **Schedule:** 08-10 Weeks **Quantity:** 10/Qty	10 / Qty
Type II Layer II, 48 Port Access Switches	Network switches	**Address:** SAARC Office, G-10, Islamabad **Schedule:** 08-10 weeks **Quantity:** 16/Qty	16 / Qty
Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories	Network switches	**Address:** SAARC Office, G-10, Islamabad **Schedule:** 8-10 Weeks **Quantity:** 2/Qty	2 / Qty
Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC)	Network switches	**Address:** SAARC Office, G-10 Islamabad **Schedule:** 8-10 weeks **Quantity:** 2/Qty	2 / Qty
Stack cables/transceivers for core pair (sufficient to form redundant ring; type and length as per OEM design)	Transceivers and media converters	**Address:** SAARC Office, G-10 Islamabad **Schedule:** 8-10 Weeks **Quantity:** 1/Qty	1 / Qty

Item	UNSPSC	Delivery Schedule	Quantity
Multi-mode 1G optical SFP's for uplinks	Transceivers VHF, UHF single and multi channel	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 194/Qty	194 / Qty
Multi-mode 10G optical SFP+ (aggregation to firewall)	Transceivers and media converters	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 12/Qty	12 / Qty
1G Copper SFP must compatible with Aggregation SW	Transceivers and media converters	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 15/Qty	15 / Qty
10G DAC cable for core-to-firewall / in-rack use (1m/3m as per rack layout)	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 4/Qty	4 / Qty
Multi-Mode Fiber optic uplinks from access switches to Aggregation switch third floor in a five-floor building (as per actual)	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty

Item	UNSPSC	Delivery Schedule	Quantity
In case of additional switch requirement on the same floor with different location bidder will provide and laid fiber b/w the new switch & the floor rack ODF for all floors with all allied accessories.(as per actual)	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Cable rolls (CAT6 Corning Original)	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 2/Qty	2 / Qty
48 duplex port ODF for core switches	Patch panel	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 2/Qty	2 / Qty
24 duplex Port ODF for floor access switches	Patch panel	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 10/Qty	10 / Qty
Fiber pigtails, splice trays, sleeves, adapters and ODF accessories (as per actual)	Miscellaneous	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item	UNSPSC	Delivery Schedule	Quantity
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (0.5 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (1 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (3 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
CAT6 Patch cords (0.5 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
CAT6 Patch cords (1 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item	UNSPSC	Delivery Schedule	Quantity
CAT6 Patch cords (3 Meter)as per actual	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories (as per actual)	Miscellaneous	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Rack mounting kits & power cords (as per actual)	Network cable	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Earthing/grounding kit and bonding accessories (as per actual)	Electrical box extension	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Fire-stop sealing material and labeling materials (as per actual)	Fiber insulation	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Item	UNSPSC	Delivery Schedule	Quantity
Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher(as per actual)	Transceivers and media converters	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/Qty	1 / Qty
Installation, configuration, integration, testing and commissioning + (Annexure Corrigendum)	Miscellaneous	**Address:** SAARC Building Plot no 26, G-10/4 G 10 Markaz G-10, Islamabad **Schedule:** 8 to 10 weeks **Quantity:** 1/job	1 / job

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Related Services of Goods:

No

Items/Lot Specification

Lot Title : Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office

Item: Type I (POE++) Layer II, 48 Port Access Switches

UNSPSC: Network switches

Specifications / Requirements:

Type I (POE++) Layer II, 48 Port Access Switches • Layer II managed 48-port PoE access switches. • Switching capacity ≥104 Gbps per switch. • 48 × 10/100/1000BASE-T RJ-45 copper ports per switch. • Minimum 4 × 1G SFP optical uplink ports per switch; SFP+ ports supporting 1G SFPs shall also be acceptable. Optical uplinks shall be as per the fiber and optics specified under Allied Network Accessories. • Minimum 24 copper ports shall support IEEE 802.3at (PoE+), and at least 12 of these ports shall support IEEE 802.3bt (PoE++), with a minimum 60W power capability per 802.3bt-enabled port. The switch shall provide a minimum aggregate PoE power budget of 370W, dynamically allocated across PoE ports in accordance with IEEE/LLDP power negotiation. Ports shall be backward compatible with lower PoE standards for IP phones and other PoE-powered devices. • Support per-port PoE enable/disable, PoE priority and powered-device auto-detection. • Non-blocking, wire-speed forwarding architecture. • Switches must support physical or vendor-supported virtual/logical stacking, with HA/failover/redundancy mechanisms. • Support minimum 16,000 MAC addresses, 4,000 VLAN IDs (VLAN 1–4094) and jumbo frames of at least 9,000 bytes MTU. • Support VLANs, STP/RSTP/MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping. • Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent. • Support DHCP Snooping with Option 82 and Voice VLAN. • Support IEEE 802.1X port-based authentication and MAC-based authentication with RADIUS integration, Guest VLAN and dynamic VLAN assignment. • Support DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control. • Support administrator authentication through local authentication and RADIUS and/or TACACS+ • Support CLI and GUI management, and role-based administration. • Support SNMPv3, SNMP traps, Syslog and NTP; compatible with commonly used NMS and logging platforms • Support port mirroring (local SPAN); remote mirroring and sFlow/NetStream or equivalent flow telemetry shall be preferred. • 19-inch rack mountable, 1RU preferred, with mounting kit included. • Support configuration backup/export and restoration/import. • Support firmware/software upgrades through Web UI/CLI and TFTP, FTP, SFTP, HTTPS or equivalent. • Redundant power architecture through dual AC power supplies. • Dedicated console port; out-of-band management port preferred. • All switches shall be of the same OEM, make and model with identical firmware. • Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid. • Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access. • All licenses

required to meet these specifications shall be included in the quoted price. No mandatory feature shall be offered subsequently as a paid add-on.

Item: Type II Layer II, 48 Port Access Switches

UNSPSC: Network switches

Specifications / Requirements:

Type II Layer II, 48 Port Access Switches • Layer II managed 48-port access switches. • Switching capacity ≥104 Gbps per switch. • 48 × 10/100/1000BASE-T RJ-45 copper ports per switch. • Minimum 4 × 1G SFP optical uplink ports per switch; SFP+ ports supporting 1G SFPs shall also be acceptable. • Non-blocking, wire-speed forwarding architecture. • Switches must support physical or vendor-supported virtual/logical stacking. • Support minimum 16,000 MAC addresses, 4,000 VLAN IDs (VLAN 1–4094) and jumbo frames of at least 9,000 bytes MTU. • Support VLANs, STP/RSTP/MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping. • Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent. • Support DHCP Snooping with Option 82 and Voice VLAN. • Support IEEE 802.1X port-based authentication and MAC-based authentication with RADIUS integration, Guest VLAN and dynamic VLAN assignment. • Support DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control. • Support administrator authentication through local authentication and RADIUS and/or TACACS+. • Support CLI and GUI management, and role-based administration. • Support SNMPv3, SNMP traps, Syslog and NTP; compatible with commonly used NMS and logging platforms. • Support port mirroring (local SPAN); remote mirroring and sFlow/NetStream or equivalent flow telemetry shall be preferred. • Support configuration backup/export and restoration/import. • Support firmware/software upgrades through Web UI/CLI and TFTP, FTP, SFTP, HTTPS or equivalent. • 19-inch rack mountable, 1RU preferred, with mounting kit included. • Redundant power architecture through dual AC power supplies. • Dedicated console port; out-of-band management port preferred. • All switches shall be of the same OEM, make and model with identical firmware. • Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid. • Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access. • All licenses required to meet these specifications shall be included in the quoted price. No mandatory feature shall be offered subsequently as a paid add-on.

Item: Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories

UNSPSC: Network switches

Specifications / Requirements:

Type-III Layer 2, 48 Port Aggregation Switches (Stackable) • Layer 2, 48-port aggregation switch, suitable for deployment as the central switch. • Two (2) aggregation switches shall be supplied and shall operate as a redundant core pair forming a single logical switching system. • Each switch shall provide a minimum of 48 × 1G SFP optical ports for fiber connectivity to access switches and other network equipment. • Each switch shall have a minimum of 6 × 10G SFP+ optical ports, of which 2 × 10G SFP+ ports may be utilized for stacking/inter-switch connectivity, leaving a minimum of 4 × 10G SFP+ ports for network uplinks. • Each switch shall have a switching capacity of ≥216 Gbps and shall provide non-blocking, line-rate forwarding performance. • Forwarding performance shall be ≥160 Mpps. Figures quoted shall be based on manufacturer-published specifications and shall not be based solely on theoretical backplane/switching capacity. • The remaining 10G SFP+ ports shall support LACP/link aggregation in separate LAG groups, each providing up to 20 Gbps when two 10G links are used. Cross-stack LACP shall be supported, allowing a single logical link to terminate on both aggregation switches. • Dedicated console and management Ethernet ports shall be provided. • The two aggregation switches shall support stacking/virtual chassis and shall operate as one logical switch under a single management IP and single configuration, with master/standby election and automatic failover. The solution shall not rely solely on STP for core redundancy. • Minimum stack bandwidth 20 Gbps. Redundant stack links are mandatory; a single stack cable between the two switches shall not be accepted. • The bidder shall confirm whether stack links consume normal network ports. • The switch shall support 1+1 redundant AC power supplies, both to be quoted and supplied. Power supplies shall be hot-swappable were supported by the proposed model. Redundant/replaceable fan modules preferred. • The switch shall support VLAN, STP, RSTP, MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping. • Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent. • Support minimum 4,000 VLAN IDs (VLAN 1–4094) and 16,000 MAC addresses. • The switch shall support jumbo frames of at least 9,000 bytes MTU. • The switch shall support security features such as DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control. • Support IEEE 802.1X authentication and RADIUS integration. • Support multiple hardware QoS queues per port sufficient for required QoS functions with 802.1p and DSCP marking, SP, WRR and DRR scheduling, ingress policing, egress shaping and ACL-based QoS. • The switch shall support CLI and GUI-based management. Role-based administration shall be supported. • Administrator authentication shall support local user authentication as well as centralized authentication through RADIUS and/or TACACS+. • The switch shall support SNMPv3, SSHv2, SNMP traps, Syslog and NTP for network monitoring, logging and time synchronization. • The switch shall support network traffic analysis and shall be compatible with commonly used Network Management Systems (NMS), monitoring and logging platforms. • The switch shall support configuration backup/export and configuration restoration/import. • Support port mirroring, SFP DOM/DDM, and sFlow/NetStream or equivalent flow telemetry. • The switch shall support the latest stable vendor-supported firmware at time of supply, upgradeable through Web GUI/CLI and TFTP, FTP, SFTP or HTTPS, with minimum service interruption. • 19-inch rack mountable, 1RU preferred, with mounting kit included. • AC 100–240V, 50/60Hz input. • Both campus switches shall be of the same OEM, make and model with identical firmware. • Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid. • Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access. • All licenses required to meet these specifications including stacking, security and management licenses.

Item: Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC)

UNSPSC: Network switches

Specifications / Requirements:

Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC) • Layer 2, 24-port switch, suitable for deployment as the aggregation switch. • Vendor will be responsible to install these switches at FBR G5 Data Center. • Two (2) aggregation switches shall be supplied and shall operate as a redundant core pair forming a single logical switching system. • Each switch shall provide a minimum of 24 × 1G SFP optical ports for fiber connectivity to access switches and other network equipment. • Each switch shall have a minimum of 6 × 10G SFP+ optical ports, of which 2 × 10G SFP+ ports may be utilized for stacking/inter-switch connectivity, leaving a minimum of 4 × 10G SFP+ ports for network uplinks. • Each switch shall have a switching capacity of ≥168 Gbps and shall provide non-blocking, line-rate forwarding performance. • Forwarding performance shall be ≥120 Mpps. Figures quoted shall be based on manufacturer-published specifications and shall not be based solely on theoretical backplane/switching capacity. • The remaining 10G SFP+ ports shall support LACP/link aggregation in separate LAG groups, each providing up to 20 Gbps when two 10G links are used. Cross-stack LACP shall be supported, allowing a single logical link to terminate on both aggregation switches. • Dedicated console and management Ethernet ports shall be provided. • The two aggregation switches shall support stacking/virtual chassis and shall operate as one logical switch under a single management IP and single configuration, with master/standby election and automatic failover. The solution shall not rely solely on STP for core redundancy. • Minimum stack bandwidth 20 Gbps. Redundant stack links are mandatory; a single stack cable between the two cores shall not be accepted. • The bidder shall confirm whether stack links consume normal network ports. • The switch shall support 1+1 redundant AC power supplies, both to be quoted and supplied. Power supplies shall be hot-swappable were supported by the proposed model. Redundant/replaceable fan modules preferred. • The switch shall support VLAN, STP, RSTP, MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping. • Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent. • Support minimum 4,000 VLAN IDs (VLAN 1–4094) and 16,000 MAC addresses. • The switch shall support jumbo frames of at least 9,000 bytes MTU. • The switch shall support security features such as DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control. • Support IEEE 802.1X authentication and RADIUS integration. • Support multiple hardware QoS queues per port sufficient for required QoS functions with 802.1p and DSCP marking, SP, WRR and DRR scheduling, ingress policing, egress shaping and ACL-based QoS. • The switch shall support CLI and GUI-based management. Role-based administration shall be supported. • Administrator authentication shall support local user authentication as well as centralized authentication through RADIUS and/or TACACS+. • The switch shall support SNMPv3, SSHv2, SNMP traps, Syslog and NTP for network monitoring, logging and time synchronization. • The switch shall support network traffic analysis and shall be compatible with commonly used Network Management Systems (NMS), monitoring and logging platforms. • The switch shall support configuration backup/export and configuration restoration/import. • Support port mirroring, SFP DOM/DDM, and sFlow/NetStream or equivalent flow telemetry. • The switch shall support the latest stable vendor-supported firmware at time of supply, upgradeable through Web GUI/CLI and TFTP, FTP, SFTP or HTTPS, with minimum service interruption. • 19-inch rack mountable, 1RU preferred, with mounting kit included. • AC 100–240V, 50/60Hz input. • Both aggregation switches shall be of the same OEM, make and model with identical firmware. • Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid. • Minimum five (5) years OEM warranty and support from date of final acceptance, covering

hardware replacement, firmware upgrades and OEM TAC access. • All licenses required to meet these specifications including stacking, security and management licenses. Note: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables). Mandatory Site-Survey: The bidder is required to visit for the site survey and finalize all required accessories e.g. Fiber cable lengths, types, cable tray and duct length estimation along with all allied accessories etc. In case of any shortage of any required accessories bidder will be responsible to provide at no additional cost. Connectivity of basement with 3rd floor media room will be the responsibility of the bidder.

Item: Stack cables/transceivers for core pair (sufficient to form redundant ring; type and length as per OEM design)

UNSPSC: Transceivers and media converters

Specifications / Requirements:

Stack cables/transceivers for core pair (sufficient to form redundant ring; type and length as per OEM design) Qty. As per Actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Multi-mode 1G optical SFP's for uplinks

UNSPSC: Transceivers VHF, UHF single and multi channel

Specifications / Requirements:

Multi-mode 1G optical SFP's for uplinks

Item: Multi-mode 10G optical SFP+ (aggregation to firewall)

UNSPSC: Transceivers and media converters

Specifications / Requirements:

Multi-mode 10G optical SFP+ (aggregation to firewall)

Item: 1G Copper SFP must compatible with Aggregation SW

UNSPSC: Transceivers and media converters

Specifications / Requirements:

1G Copper SFP must compatible with Aggregation SW

Item: 10G DAC cable for core-to-firewall / in-rack use (1m/3m as per rack layout)

UNSPSC: Network cable

Specifications / Requirements:

10G DAC cable for core-to-firewall / in-rack use (1m/3m as per rack layout)

Item: Multi-Mode Fiber optic uplinks from access switches to Aggregation switch third floor in a five-floor building (as per actual)

UNSPSC: Network cable

Specifications / Requirements:

Multi-Mode Fiber optic uplinks from access switches to Aggregation switch third floor in a five-floor building (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: In case of additional switch requirement on the same floor with different location bidder will provide and laid fiber b/w the new switch & the floor rack ODF for all floors with all allied accessories.(as per actual)

UNSPSC: Network cable

Specifications / Requirements:

In case of additional switch requirement on the same floor with different location bidder will provide and laid fiber b/w the new switch & the floor rack ODF for all floors with all allied accessories.(as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Cable rolls (CAT6 Corning Original)

UNSPSC: Network cable

Specifications / Requirements:

Cable rolls (CAT6 Corning Original)

Item: 48 duplex port ODF for core switches

UNSPSC: Patch panel

Specifications / Requirements:

48 duplex port ODF for core switches

Item: 24 duplex Port ODF for floor access switches

UNSPSC: Patch panel

Specifications / Requirements:

24 duplex Port ODF for floor access switches

Item: Fiber pigtails, splice trays, sleeves, adapters and ODF accessories (as per actual)

UNSPSC: Miscellaneous

Specifications / Requirements:

Fiber pigtails, splice trays, sleeves, adapters and ODF accessories (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Fiber Patch cords, LC–LC Duplex, OM4, LSZH (0.5 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

Fiber Patch cords, LC–LC Duplex, OM4, LSZH (0.5 Meter)as per actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Fiber Patch cords, LC–LC Duplex, OM4, LSZH (1 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

Fiber Patch cords, LC–LC Duplex, OM4, LSZH (1 Meter)as per actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Fiber Patch cords, LC–LC Duplex, OM4, LSZH (3 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

Fiber Patch cords, LC–LC Duplex, OM4, LSZH (3 Meter)as per actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: CAT6 Patch cords (0.5 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

CAT6 Patch cords (0.5 Meter)as per actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: CAT6 Patch cords (1 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

CAT6 Patch cords (1 Meter)as per actual Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: CAT6 Patch cords (3 Meter)as per actual

UNSPSC: Network cable

Specifications / Requirements:

CAT6 Patch cords (3 Meter)as per actual. Note: The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories (as per actual)

UNSPSC: Miscellaneous

Specifications / Requirements:

Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Rack mounting kits & power cords (as per actual)

UNSPSC: Network cable

Specifications / Requirements:

Rack mounting kits & power cords (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Earthing/grounding kit and bonding accessories (as per actual)

UNSPSC: Electrical box extension

Specifications / Requirements:

Earthing/grounding kit and bonding accessories (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Fire-stop sealing material and labeling materials (as per actual)

UNSPSC: Fiber insulation

Specifications / Requirements:

Fire-stop sealing material and labeling materials (as per actual). Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher(as per actual)

UNSPSC: Transceivers and media converters

Specifications / Requirements:

Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher(as per actual) Note:The quantity of 1 is entered in EPADS solely for system processing purposes. The actual quantity required shall be determined as per the actual requirement at the time of procurement.

Item: Installation, configuration, integration, testing and commissioning + (Annexure Corrigendum)

UNSPSC: Miscellaneous

Specifications / Requirements:

Installation, configuration, integration, testing and commissioning Lot

---

Price Schedule

For Individual Items

#	Item Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

a. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

b. The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 35 hereunder.

c. “Authority” means Public Procurement Regulatory Authority.

d. The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC.

e. “Completion date” means the date of completion of the Contract by the Bidder as certified by the Procuring Agency.

f. “Procuring Agency” means:-

a. any Ministry, Division, Department or any Office of the Government;

b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;.

g. “The Contract” means an agreement enforceable by law;

h. “The Contract Price” means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;

i. “Ancillary Services” means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;

j. “GCC” means the General Conditions of Contract contained in this section;

k. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

l. **“**Day” means calendar day unless indicated otherwise.

m. “Defective Goods” are those goods which are below standards, requirements or specifications stated by the Contract.

n. “Delivery” means the transfer of the goods from the supplier equipment, machinery, and /or other materials which the Supplier is required to supply to the Procuring Agency under Contract.

o. “Effective Date” means the date on which this Contract comes into force and effect.

p. “Force Majeure” means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

q. The Bidder” means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;

r. “The Project Site,” where applicable, means the place or places named in Bids Data Sheet and technical Specifications;

s. “Government” means the Government of Pakistan;

t. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Goods.

u. The “Services” means the work to be performed by the Bidder pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Bidder’s Bids;

v. “Party” means the Procuring Agency or the Bidder, as the case may be, and “Parties” means both of them;

w. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

x. “Completion Date” means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

y. “In Writing” means communicated in written form with proof of receipt;

z. “Local Currency” means the currency of Pakistan;

a. “Origin” means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.

b. “Specification” means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the Procuring Agency.

c. “Procuring Agency” means: -
any Ministry, Division, Department or any Office of the Federal Government;
any authority, corporation, body or organization established by or under a Federal Law or which is owned or controlled by the Federal Government;

2. Application and Interpretation

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

3. Applicable Law

3.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

4. Governing Language

4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged between the Bidder and the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5. Notices

5.1 Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

6. Standard

6.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, the American Standards (such as ACI, IEEE, ASME, etc.) or the Pakistani standards such as PSQCA Such standards shall be the latest issued by the concerned institution.

7. Delivery/Location

7.1 The Goods shall be delivered to such locations as the Procuring Agency may approve and as specified in SCC.

8. Authorized Representatives / Authority of Member in charge

8.1 Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Bidder may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

8. Effectiveness of Contract

8.1 This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.

9. Commencement of the Contract

9.1 The Bidder shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

10. Program

10.1 Before commencement of the Contract, the Bidder shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

11. Starting Date/Expiration Date

11.1 The Bidder shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

11.2 Unless terminated earlier pursuant to Clause **GCC 16** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

12. Entire Agreement

12.1 This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

13. Modification

13.1 Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any Bids for modification or variation made by the other Party.

13.2 In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

14. Force Majeure

14.1 Definition

For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

14.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

14.3 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure. However, such period shall not exceed sixty (60) days.

14.4 Payments

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Bidder shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

15. Termination

15.1 By the Procuring Agency

The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Bidder in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;

d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

15.2 By the Bidder

The Bidder may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.

b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.

c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.

d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

1. The Bidder shall deliver the product and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

16.2 Law Applicable to Goods

The Bidder shall deliver the goods in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

The remuneration of the Bidder shall constitute the Bidder's sole remuneration in connection with this Contract or the Services, and the Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Bidder shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

The Bidder agree that, during the term of this Contract and after its termination, the Bidder and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Goods for any project resulting from or closely related to the Services.

17.3 Prohibition of Conflicting Activities

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

18. Confidentiality

18.1 Except with the prior written consent of the Procuring Agency, the Bidder and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the contract.

19. Insurance to be Taken Out by the Bidder

19.1 The Bidder(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, loss or damage, and for the coverage, as shall be specified in the SCC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing

that such insurance has been taken out and maintained and that the current premiums have been paid.

20. Bidder's Actions Requiring Procuring Agency's Prior Approval

20.1 The Bidder shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

(a) appointing such members of the Personnel not provided by the Bidder;

(b) changing the Program of activities; and

(c) any other action that may be specified in the SCC.

21. Reporting Obligations

21.1 The Bidder shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in **SCC**. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 16.**

22.2 Correction for Over-payment

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Bidder by adjusting the next payment certificate. The Bidder shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in SCC.

22.3 Lack of performance penalty

If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Bidder. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the SCC.

23. Performance Guarantee

23.1 The Performance Security (or Guarantee) shall be provided to the Procuring Agency no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form acceptable to the Procuring Agency as specified in SCC, and denominated in the types and proportions of the currencies in which the Contract Price is payable as specified in the SCC.

23.2 Within Seven (07) days from the issuance of acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape of ------- at the discretion of the PA in the amount **specified in SCC.** In case the amount of Bids security is equal or greater than

23.3 The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

23.4 The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in SCC.

23.5 The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

23.6 The bid security of the successful bidder shall not be substituted with the Performance Guarantee.

24. Fraud and Corruption

24.1 The Procuring Agency requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

25. Sustainable Procurement

25.1 The Bidder shall conform to the sustainable procurement contractual provisions, if and as specified in the SCC.

D. Bidder's Personnel

26. Description of Personnel

26.1 The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

27. Removal and/or Replacement of Personnel

27.1 Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Personnel, the Bidder shall provide as a replacement a person of equivalent or better qualifications.

27.2 If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Bidder shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

27.3 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

28.1 The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Bidder such assistance and exemptions as specified in the SCC.

29. Change in the Applicable Law

29.1 If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the related Services rendered by the Bidder, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the SCC.

30. Services and Facilities

30.1 The Procuring Agency shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described , at the times and in the manner specified in the SCC or terms of reference.

30.2 In case that such services, facilities and property shall not be made available to the Bidder, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Bidder for the performance of the Services, (ii) the manner in which the Bidder shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Bidder as a result thereof.

F. Payments to the Bidder

31. Contract Price

31.1 The price payable shall be in Pakistani Rupees unless otherwise specified in the SCC. Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

32. Terms and Conditions of Payment

32.1 Payments will be made to the Bidder according to the payment schedule stated in the SCC and as per actual invoice submitted by the Bidder.

32.2 Unless otherwise stated in the SCC, the advance payment shall be made against the provision by the Bidder of a bank guarantee for the same amount, and shall be valid for the period stated in the SCC. Any other payment shall be made after the conditions listed in the SCC for such payment have been met, and the Bidder have submitted an invoice to the Procuring Agency specifying the amount due.

33. Currency of Payment

33.1 Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

G. Quality Control

34. Identifying Defects

34.1 The principle and modalities of Inspection of the Goods by the Procuring Agency shall be as indicated in the SCC. The Procuring Agency shall check the Bidder’s performance and notify him of any Defects that are found. Such checking shall not affect the Bidder’s responsibilities. The Procuring Agency may instruct the Bidder to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the SCC.

35. Correction of Defects, and

Lack of Performance Penalty

35.1 The Procuring Agency shall give notice to the Bidder of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice a Defect is given, the Bidder shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

35.3 If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the Bidder will pay this amount, and a Penalty for Lack of Performance.

36. Taxes and Duties

36.1 A Supplier shall be entirely responsible for all taxes, duties, fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

H. Settlement of Disputes

37. Alternate Dispute Resolution

37.1 Upon the commencement of the Procurement Contract, any disputes arising between the contracting parties shall be resolved in accordance with Rule 66 of the Public Procurement Rules, 2026.

37.2 The procuring agency may refer the matter to the Chief Justice Islamabad High Court or Managing Director PPRA or the Secretary Ministry of Law & Justice for appointment of Arbitrator.

37.3 The fee for the Arbitrator shall be specified in Pak Rupees as determined by the appointing authority which shall be borne and shared equally by the contracting parties.

38. Change Orders

The Procuring Agency may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

a)Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
b)The method of shipment or packing;
c)The place of delivery; and/or
d)The Services to be provided by the Supplier.

39. Contract Amendenments

39.1 Subject to GCC Clause 32, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

40. Sub-Contracts

40.1 The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory**

The Supplier is:

The title of the subject procurement is: **Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning**

Number of GC Clause 3

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 4

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 5

Notices:

The addresses for the notices are:

The Authority:

Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory
+92-334-531-4503
procurement@pral.com.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory
+92-334-531-4503
procurement@pral.com.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 17

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17**.**

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **1.00%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 23

Performance Guarantee:

Instrument of Performance Guarantee shall be in the Name of : **Pakistan Revenue Automation Pvt Limited**

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Bank Guarantee**

Number of GC Clause 32

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 33

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 34

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

Pre-bid: Date : 23-10-2026 , Time: 11:00 AM, Location : PRAL Head Office Islamabad

Number of GC Clause 37

Following is the guidance for Dispute Resolution

(a) For Contracts to be entered with foreign Contractor/ Service Provider:

All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.

(b) For Contracts to be entered with nationals of Pakistan:

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.

ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.

iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration in accordance with GCC clause 38.

iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute.
v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P147390***

Alternative No.: **[insert identification No if this is a Bid for an alternative]**

To: **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Signed: [insert signature of person whose name and capacity are shown] In the capacity of
[insert legal capacity of person signing the Bid Securing Declaration]

Name: [insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the Bid for and on behalf of: [insert complete name of Bidder]

Dated on day of , [insert date of signing]
Corporate Seal (where appropriate)

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning (*P147390*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Performance Guarantee Form

Performance Guarantee Form

To: **Pakistan Revenue Automation Pvt Limited (Pakistan Revenue Automation Pvt Limited), Manager Galaxy Business Center, 2nd Floor, Plot # 266-B, Street # 9, Sector I-9/3, Islamabad, Islamabad Capital Territory**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

_____

[address]

_____

[date}

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure

Technical Proposal

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Proposal** (page number: 87)

Annexure Corrigendum

Information (Read-Only)

See Form Under Additional Forms and Documents: **Annexure Corrigendum** (page number: 112)

Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Financial Proposal** (page number: 118)

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

Procurement of Enterprise-Grade Layer 2 (L2) Network Switches for SAARC Office – Including Mandatory Site Survey, Installation, Configuration, Testing and Commissioning

Technical Specifications for SAARC LAN Infrastructure

Type I (POE++) Layer II, 48 Port Access Switches

- Layer II managed 48-port PoE access switches.
- Switching capacity ≥104 Gbps per switch.
- 48 × 10/100/1000BASE-T RJ-45 copper ports per switch.
- Minimum 4 × 1G SFP optical uplink ports per switch; SFP+ ports supporting 1G SFPs shall also be acceptable. Optical uplinks shall be as per the fiber and optics specified under Allied Network Accessories.
- Minimum 24 copper ports shall support IEEE 802.3at (PoE+), and at least 12 of these ports shall support IEEE 802.3bt (PoE++), with a minimum 60W power capability per 802.3bt-enabled port. The switch shall provide a minimum aggregate PoE power budget of 370W, dynamically allocated across PoE ports in accordance with IEEE/LLDP power negotiation. Ports shall be backward compatible with lower PoE standards for IP phones and other PoE-powered devices.
- Support per-port PoE enable/disable, PoE priority and powered-device auto-detection.
- Non-blocking, wire-speed forwarding architecture.
- Switches must support physical or vendor-supported virtual/logical stacking, with HA/failover/redundancy mechanisms.
- Support minimum 16,000 MAC addresses, 4,000 VLAN IDs (VLAN 1–4094) and jumbo frames of at least 9,000 bytes MTU.
- Support VLANs, STP/RSTP/MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping.
- Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent.
- Support DHCP Snooping with Option 82 and Voice VLAN.
- Support IEEE 802.1X port-based authentication and MAC-based authentication with RADIUS integration, Guest VLAN and dynamic VLAN assignment.

- Support DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control.
- Support administrator authentication through local authentication and RADIUS and/or TACACS+
- Support CLI and GUI management, and role-based administration.
- Support SNMPv3, SNMP traps, Syslog and NTP; compatible with commonly used NMS and logging platforms
- Support port mirroring (local SPAN); remote mirroring and sFlow/NetStream or equivalent flow telemetry shall be preferred.
- 19-inch rack mountable, 1RU preferred, with mounting kit included.
- Support configuration backup/export and restoration/import.
- Support firmware/software upgrades through Web UI/CLI and TFTP, FTP, SFTP, HTTPS or equivalent.
- Redundant power architecture through dual AC power supplies.
- Dedicated console port; out-of-band management port preferred.
- All switches shall be of the same OEM, make and model with identical firmware.
- Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid.
- Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access.
- All licenses required to meet these specifications shall be included in the quoted price. No mandatory feature shall be offered subsequently as a paid add-on.

Type II Layer II, 48 Port Access Switches

- Layer II managed 48-port access switches.
- Switching capacity ≥104 Gbps per switch.
- 48 × 10/100/1000BASE-T RJ-45 copper ports per switch.

- Minimum 4 × 1G SFP optical uplink ports per switch; SFP+ ports supporting 1G SFPs shall also be acceptable.
- Non-blocking, wire-speed forwarding architecture.
- Switches must support physical or vendor-supported virtual/logical stacking.
- Support minimum 16,000 MAC addresses, 4,000 VLAN IDs (VLAN 1–4094) and jumbo frames of at least 9,000 bytes MTU.
- Support VLANs, STP/RSTP/MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping.
- Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent.
- Support DHCP Snooping with Option 82 and Voice VLAN.
- Support IEEE 802.1X port-based authentication and MAC-based authentication with RADIUS integration, Guest VLAN and dynamic VLAN assignment.
- Support DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control.
- Support administrator authentication through local authentication and RADIUS and/or TACACS+.
- Support CLI and GUI management, and role-based administration.
- Support SNMPv3, SNMP traps, Syslog and NTP; compatible with commonly used NMS and logging platforms.
- Support port mirroring (local SPAN); remote mirroring and sFlow/NetStream or equivalent flow telemetry shall be preferred.
- Support configuration backup/export and restoration/import.
- Support firmware/software upgrades through Web UI/CLI and TFTP, FTP, SFTP, HTTPS or equivalent.
- 19-inch rack mountable, 1RU preferred, with mounting kit included.
- Redundant power architecture through dual AC power supplies.
- Dedicated console port; out-of-band management port preferred.

- All switches shall be of the same OEM, make and model with identical firmware.
- Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid.
- Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access.
- All licenses required to meet these specifications shall be included in the quoted price. No mandatory feature shall be offered subsequently as a paid add-on.

Type-III Layer 2, 48 Port Aggregation Switches (Stackable)

- Layer 2, 48-port aggregation switch, suitable for deployment as the central switch.
- Two (2) aggregation switches shall be supplied and shall operate as a redundant core pair forming a single logical switching system.
- Each switch shall provide a minimum of 48 × 1G SFP optical ports for fiber connectivity to access switches and other network equipment.
- Each switch shall have a minimum of 6 × 10G SFP+ optical ports, of which 2 × 10G SFP+ ports may be utilized for stacking/inter-switch connectivity, leaving a minimum of 4 × 10G SFP+ ports for network uplinks.
- Each switch shall have a switching capacity of ≥216 Gbps and shall provide non-blocking, line-rate forwarding performance.
- Forwarding performance shall be ≥160 Mpps. Figures quoted shall be based on manufacturer-published specifications and shall not be based solely on theoretical backplane/switching capacity.
- The remaining 10G SFP+ ports shall support LACP/link aggregation in separate LAG groups, each providing up to 20 Gbps when two 10G links are used. Cross-stack LACP shall be supported, allowing a single logical link to terminate on both aggregation switches.
- Dedicated console and management Ethernet ports shall be provided.

- The two aggregation switches shall support stacking/virtual chassis and shall operate as one logical switch under a single management IP and single configuration, with master/standby election and automatic failover. The solution shall not rely solely on STP for core redundancy.
- Minimum stack bandwidth 20 Gbps. Redundant stack links are mandatory; a single stack cable between the two switches shall not be accepted.
- The bidder shall confirm whether stack links consume normal network ports.
- The switch shall support 1+1 redundant AC power supplies, both to be quoted and supplied. Power supplies shall be hot-swappable were supported by the proposed model. Redundant/replaceable fan modules preferred.
- The switch shall support VLAN, STP, RSTP, MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping.
- Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent.
- Support minimum 4,000 VLAN IDs (VLAN 1–4094) and 16,000 MAC addresses.
- The switch shall support jumbo frames of at least 9,000 bytes MTU.
- The switch shall support security features such as DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control.
- Support IEEE 802.1X authentication and RADIUS integration.
- Support multiple hardware QoS queues per port sufficient for required QoS functions with 802.1p and DSCP marking, SP, WRR and DRR scheduling, ingress policing, egress shaping and ACL-based QoS.
- The switch shall support CLI and GUI-based management. Role-based administration shall be supported.
- Administrator authentication shall support local user authentication as well as centralized authentication through RADIUS and/or TACACS+.
- The switch shall support SNMPv3, SSHv2, SNMP traps, Syslog and NTP for network monitoring, logging and time synchronization.
- The switch shall support network traffic analysis and shall be compatible with commonly used Network Management Systems (NMS), monitoring and logging platforms.

- The switch shall support configuration backup/export and configuration restoration/import.
- Support port mirroring, SFP DOM/DDM, and sFlow/NetStream or equivalent flow telemetry.
- The switch shall support the latest stable vendor-supported firmware at time of supply, upgradeable through Web GUI/CLI and TFTP, FTP, SFTP or HTTPS, with minimum service interruption.
- 19-inch rack mountable, 1RU preferred, with mounting kit included.
- AC 100–240V, 50/60Hz input.
- Both campus switches shall be of the same OEM, make and model with identical firmware.
- Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid.
- Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access.
- All licenses required to meet these specifications including stacking, security and management licenses.

Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC)

- Layer 2, 24-port switch, suitable for deployment as the aggregation switch.
- Vendor will be responsible to install these switches at FBR G5 Data Center.
- Two (2) aggregation switches shall be supplied and shall operate as a redundant core pair forming a single logical switching system.
- Each switch shall provide a minimum of 24 × 1G SFP optical ports for fiber connectivity to access switches and other network equipment.
- Each switch shall have a minimum of 6 × 10G SFP+ optical ports, of which 2 × 10G SFP+ ports may be utilized for stacking/inter-switch connectivity, leaving a minimum of 4 × 10G SFP+ ports for network uplinks.
- Each switch shall have a switching capacity of ≥168 Gbps and shall provide non-blocking, line-rate forwarding performance.

- Forwarding performance shall be ≥120 Mpps. Figures quoted shall be based on manufacturer-published specifications and shall not be based solely on theoretical backplane/switching capacity.
- The remaining 10G SFP+ ports shall support LACP/link aggregation in separate LAG groups, each providing up to 20 Gbps when two 10G links are used. Cross-stack LACP shall be supported, allowing a single logical link to terminate on both aggregation switches.
- Dedicated console and management Ethernet ports shall be provided.
- The two aggregation switches shall support stacking/virtual chassis and shall operate as one logical switch under a single management IP and single configuration, with master/standby election and automatic failover. The solution shall not rely solely on STP for core redundancy.
- Minimum stack bandwidth 20 Gbps. Redundant stack links are mandatory; a single stack cable between the two cores shall not be accepted.
- The bidder shall confirm whether stack links consume normal network ports.
- The switch shall support 1+1 redundant AC power supplies, both to be quoted and supplied. Power supplies shall be hot-swappable were supported by the proposed model. Redundant/replaceable fan modules preferred.
- The switch shall support VLAN, STP, RSTP, MSTP, LACP, LLDP/LLDP-MED, QoS and IGMP Snooping.
- Support BPDU Guard, Root Guard, Loop Protection and Edge Port/PortFast or equivalent.
- Support minimum 4,000 VLAN IDs (VLAN 1–4094) and 16,000 MAC addresses.
- The switch shall support jumbo frames of at least 9,000 bytes MTU.
- The switch shall support security features such as DHCP Snooping, Dynamic ARP Inspection or equivalent, IP Source Guard, MAC/Port Security, Port Isolation and Storm Control.
- Support IEEE 802.1X authentication and RADIUS integration.
- Support multiple hardware QoS queues per port sufficient for required QoS functions with 802.1p and DSCP marking, SP, WRR and DRR scheduling, ingress policing, egress shaping and ACL-based QoS.

- The switch shall support CLI and GUI-based management. Role-based administration shall be supported.
- Administrator authentication shall support local user authentication as well as centralized authentication through RADIUS and/or TACACS+.
- The switch shall support SNMPv3, SSHv2, SNMP traps, Syslog and NTP for network monitoring, logging and time synchronization.
- The switch shall support network traffic analysis and shall be compatible with commonly used Network Management Systems (NMS), monitoring and logging platforms.
- The switch shall support configuration backup/export and configuration restoration/import.
- Support port mirroring, SFP DOM/DDM, and sFlow/NetStream or equivalent flow telemetry.
- The switch shall support the latest stable vendor-supported firmware at time of supply, upgradeable through Web GUI/CLI and TFTP, FTP, SFTP or HTTPS, with minimum service interruption.
- 19-inch rack mountable, 1RU preferred, with mounting kit included.
- AC 100–240V, 50/60Hz input.
- Both aggregation switches shall be of the same OEM, make and model with identical firmware.
- Equipment shall be new, current-production models and shall not be End-of-Sale (EOS) or End-of-Life (EOL) during the five (5) years support period. OEM End-of-Sale/End-of-Life declaration shall be submitted with the bid.
- Minimum five (5) years OEM warranty and support from date of final acceptance, covering hardware replacement, firmware upgrades and OEM TAC access.
- All licenses required to meet these specifications including stacking, security and management licenses.

Note: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables).

Mandatory Site-Survey: The bidder is required to visit for the site survey and finalize all required accessories e.g. Fiber cable lengths, types, cable tray and duct

length estimation along with all allied accessories etc. In case of any shortage of any required accessories bidder will be responsible to provide at no additional cost. Connectivity of basement with 3rd floor media room will be the responsibility of the bidder.

The quantities of items marked "As per Actual" will be finalized after site survey, the vendor must submit site survey report within one (1) day if a vendor is not able to submit report within the required time they will be marked as technically non-complaint.

Responsibilities

- Bidder shall ensure complete connectivity, configuration, integration, installation, testing and commissioning.
- The bidder shall deliver a complete, fully functional and integrated LAN solution meeting all requirements of this document. Any equipment, module, license, software, subscription, transceiver, cable, accessory, material or service that is not specifically listed in the BOQ, but is necessary for the proper, complete and reliable operation of the solution, shall be deemed included in the quoted price. It shall be supplied at no additional cost to PRAL.
- Quantities in the BOQ are indicative minimums. Where a quantity proves insufficient to achieve the specified design (including redundancy, dual-homing and spares), the bidder shall supply the shortfall at no additional cost. **The quantities of items marked "As per Actual" will be finalized after site survey, the vendor must submit site survey report within two (2) day if a vendor is not able to submit report within the required time they will be marked as technically non-complaint.**
- The bidder shall be deemed to have inspected the site and satisfied itself of all conditions, distances, routes and constraints. No claim for additional cost or time shall be entertained on grounds of site conditions, cable route length or incomplete information.
- The bidder shall be responsible for the compatibility of all supplied components with each other and with PRAL's firewall, wireless and existing systems. Where the solution fails to meet specified functionality or

performance, the bidder shall replace or add equipment, licenses or services at no additional cost until compliance is achieved.

- Bidder shall conduct a site survey and finalize fiber cable lengths, types, routes, cable trays/ducts, ODF, patch cords and all other required accessories.
- Fiber cables shall be properly protected through ducts/conduits/cable trays, securely supported and protected against mechanical damage and rodent ingress. Ducts/conduits shall be properly sealed.
- The bidder shall provide all necessary configuration, documentation, network diagrams, IP/VLAN details and test reports related to the installed core-switch solution.
- The complete solution shall be supplied, installed, configured, tested and commissioned as a working system. No additional item that is essential for the proper operation of the proposed core network should be left out of the bidder's scope.

Allied network accessories:

All accessories, consumables and materials required for a complete working installation shall be supplied and installed by the bidder, whether or not specifically listed. Quantities marked "as per actual" shall be finalized through site survey, and unit rates shall be quoted so final quantities can be settled on joint measurement.

Connectivity architecture

- Prior Survey is mandatory to finalize all type of allied accessories.
- Access switch to aggregation switch (3rd Floor Media Room): 1G multimode fiber using SFP modules, minimum two uplinks per access switch in LACP, one to each core member.
- Aggregation Switches to firewall (3rd Floor Media Room Same RACK): 10G using SFP+, over DAC cables.
- All optical links shall terminate on ODFs. Direct termination on active equipment shall not be accepted.

  Fiber Cables for up linking with core Switches

All the cables must be protected through duct and pipes and must be properly hanged with the roof top. Bidder will ensure that the pipes and ducts are sealed pack in order to avoid any rat attack. The quantity is as per actual and the bidder is required to visit for the site survey and finalize all required accessories e.g. Fiber cable lengths, types, cable tray and duct length estimation etc.

Fiber and optics:

- Three (3) separate fiber optic cables shall be laid from each floor to the 3rd floor Media Room, routed independently. Each cable shall be Multimode OM4 (OM3 minimum), LSZH jacketed, LC/UPC connectors, 12-core, fully terminated. The primary 12-core cable shall serve as the active link, and the second & third 12-core cable shall serve as a dedicated redundant/backup link or we can load share using all fiber links. OM1 and OM2 shall not be accepted.
- ODFs shall be rack-mounted with LC/UPC **duplex** adapters: 48 duplex ports (96 cores) for the core, and 24 duplex ports (48 cores) per floor. They shall be fully loaded with pigtails, splice trays and adapters for all cores, including spares.
- Every link shall support minimum 150 meters end-to-end at the rated port speed, measured over the complete link including ODFs, splices and patch cords.
- Should any route exceed 150 meters or fail the optical loss budget, the bidder shall provide higher-grade or single-mode fiber with corresponding optics at no additional cost. Route length shall not be grounds for price variation after award.
- Stack cables/transceivers of the type, length and quantity required for a redundant stack ring.

Termination and cabling accessories:

- ODFs (48-port for core and 24-port per floor) complete with pigtails, splice trays, sleeves and adapters for all cores including spares.
- In case of any additional switch requirement on the same floor at a different location, the bidder shall supply, install, and terminate suitable fiber optic cabling (OM4, minimum OM3, LSZH jacketed, LC/UPC connectors) between

the new switch location and the floor's rack/ODF, including all required patch cords, termination, testing at no additional cost.

- Fiber patch cords shall be LC/UPC–LC/UPC duplex, Multimode OM4 (aqua), LSZH jacketed, factory-terminated and tested, in 0.5 m, 1 m and 3 m lengths as per actual. CAT6 patch cords shall be factory-terminated in 0.5 m, 1 m and 3 m lengths as per actual. Site-made or site-crimped patch cords shall not be accepted.
- Cable and patch cords must be corning or equivalent.

Rack, power and pathway:

- Rack mounting kits, power cords for every PSU quoted, including redundant units.
- Earthing kit for all equipment's, ODFs and patch panels bonded to the building earth bar.
- Fire-stop sealing of all duct, conduit and floor/wall penetrations. Fiber bend radius shall be maintained throughout the route.
- Machine-printed labels at both ends of every link and on all ODFs, panels, racks and switches. Cable ties, clamps and fasteners deemed included.

NOTE-II: Cable and patch cords must be corning or equivalent.

Testing

- Proper fluke testing will be done at the end
- Fluke certification on every copper link and OTDR and optical-loss testing on every fiber core including spares, with reports submitted before final acceptance. Links failing the loss budget shall be re-terminated or re-laid at the bidder's cost.
- Test equipment shall be arranged by the bidder with valid calibration certificates.

OEM Eligibility Note: The proposed OEM must meet all of the following. Documentary evidence for each point shall be submitted with the bid, failing which the bid may not further technically evaluated.

- The OEM has manufactured and sold enterprise-grade managed Layer-2/Layer-3 switches for at least fifteen (15) years before the bid date.

- The OEM is listed in the latest published Gartner Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure as on the bid date. A copy of the relevant report pages shall be attached.
- The OEM enterprise grade switches have been deployed at not less than five (5) customer sites, each with 10 or more managed switches, in the last five (5) years. Customer name and contact details shall be provided.
- The bidder is an authorized partner of the OEM in Pakistan. The OEM provides 24×7 technical support (TAC) and Next Business Day replacement of faulty hardware.
- The bidder shall submit a Manufacturer Authorization Form (MAF) from the OEM, specific to this tender.

BOQ For Switches

SR. No	Product	Quantity
1.	Type I (POE++) Layer II, 48 Port Access Switches	10
2.	Type II Layer II, 48 Port Access Switches	16
3.	Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories	2
4.	Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC)	2
5.	Stack cables will for aggregation switches OEM specific	04
6.	Multi-mode 1G optical SFP's for uplinks	194
7.	Multi-mode 10G optical SFP+ (aggregation to firewall)	8
8.	1G Copper SFP must compatible with Aggregation SW	15
9.	12-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables from 3rd floor to each of floors 1, 2, 4 and 5 and 3rd floor switches will also be connected to the core aggregation switch.	As per Actual
10.	Cable rolls (CAT6 Corning Original)	2 Roll

11.	Multimode OM3 LC fibre ODF, **48 duplex port or** Multimode OM3 LC fibre ODF, **96-port simplex,** including couplers, pigtails and splice tray; 3rd-floor main data center for core switches	2
12.	Multimode OM3 LC fibre ODF, **24 duplex Port** or Multimode OM3 LC fibre ODF, **48-port simplex**, including couplers, pigtails and splice tray; one each on floors 1, 2, 4 and 5 for floor access switches	06
13.	Fiber pigtails, splice trays, sleeves, adapters and ODF accessories	As per Actual
14.	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (0.5 Meter)	As per Actual
15.	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (1 Meter)	As per Actual
16.	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (3 Meter)	As per Actual
17.	CAT6 Patch cords (0.5 Meter)	As per Actual
18.	CAT6 Patch cords (1 Meter)	As per Actual
19.	CAT6 Patch cords (3 Meter)	As per Actual
20.	Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories	As per Actual
21.	Rack mounting kits & power cords	As per Actual
22.	Earthing/grounding kit and bonding accessories	As per Actual
23.	Fire-stop sealing material and labeling materials	As per Actual

24.	Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher	As per Actual
25.	Installation, configuration, integration, testing and commissioning	Lot

Note: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables).

OEM Backed warranty:

Comprehensive post-sales support for hardware, software, and licenses for five (05) years with 24×7 extendable support. NBD part replacement, in case of any part or hardware failure.

Delivery Timelines:

The delivery timeline for the supply, installation, and commissioning of Switches shall be 08–10 weeks from the date of issuance of the Purchase Order. However, PRAL reserves the right to extend or revise the delivery timeline as deemed necessary.

TECHNICAL EVALUATION CRITERIA				
Sr #	**Descriptions**	**Total Points**	**Scoring Points**	**Remarks** (Attachment of relevant evidence in each case is mandatory. In case of non-compliance no mark will be awarded)
1	**Client Portfolio/ Relevant Experience**	**15**		
	Supplied & installed similar nature of Equipment to more than 10 local/international/multinational clients including public sector or private sector organizations:		**15**	**Documentary proof**: (Purchase/Service order/ copies of contract with contact details of clients should be furnished, along with completion certificates *Multiple projects with same client will be counted as one. Note: A Prospective bidder who has submitted completion certificates for the post project has to submit 25% satisfactory certificates
	Supplied & installed similar nature of Equipment to more than 06 but less than or equal to 10 local/international/multinational clients including public sector or private sector organizations:		**10**	
	Supplied & installed similar nature of Equipment to more than 03 but less than or equal to 06 local/international/multinational clients including public sector or private sector organizations:		**05**	
2	**Compliance to the Technical Specifications and scope of work mentioned in the bidding document**	**40**		
	100% Compliance to the Specifications and scope of work / services mentioned in the bidding document along with OEM eligibility criteria mentioned above as OEM Eligibility Note.		40	If the quoted product is fully complied with the specifications mentioned in the Scope of Work, full Marks will be given, else zero (0). (Bidder to share the copies of technical literature, Data Sheet & Brochures from the manufacturer, which may be verified on the

				Internet)
3	**Site Survey**	**10**		Site survey report required
	Site Survey		**10**	
4	**Presence of the OEM or OEM's authorized Tier 1/Highest level partner in Pakistan for Warranty & technical Support**	**10**		
	Presence of Principal/OEM or OEM's authorized Tier 1 partner in Pakistan for equipment warranty & Support Services		**10**	A Written confirmation from Principal/OEM on their Letterhead is required confirming their or their authorized tier 1 partner presence in Pakistan for equipment warranty & Support services.
6	**Compliance to the delivery timelines for the supply, installation, commissioning of servers**	**10**		
	The Delivery Timelines for the supply, installation, commissioning within is 08-10 weeks after issuance of Purchase Order, Bidder to share compliance.		**10**	A written confirmation on Company's letterhead is required**.**
	10-12 weeks		**5**	
7	**Financial Turnover**	**15**		
	Annual turnover /revenue of the company is greater than or equal to 400 million (PKRs)		15	Documentary proof required (tax returns or financial audited report from registered firm/company for the year 2023-2024 or latest)
	Annual turnover /revenue of the company is less than 400 million (PKRs) but greater than or equal to 300 million (PKRs)		10	
	Annual turnover /revenue of the company is less than 300 million (PKRs) but greater than or equal to 200 million (PKRs)		**5**	
Total Technical Evaluation Score		**100**		

Passing Criteria:

Minimum Qualifying Score: A bidder must obtain a minimum of 70 marks out of 100 in the Technical Evaluation to qualify for further evaluation.

Mandatory Technical Compliance: Full marks (40/40) in Technical Compliance is mandatory. Failure in either shall render the bid technically non-responsive irrespective of the overall score.

All participating vendors are required to submit compliance sheets in editable Excel format against the technical specifications.

A separate compliance sheet in editable Excel format shall also be submitted against the evaluation criteria, clearly detailing:

- Number of similar projects completed
- Quoted product/solution and OEM details
- OEM local presence and support capability
- Committed delivery timeline

The information provided shall be supported by relevant documentary evidence wherever applicable.

NOTE: All bidders are requested to submit all the important documents through EPADS before the deadline, no missing document that affects evaluation shall be requested or accepted after submission, and the bid shall be evaluated as submitted.

CORRIGENDUM Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches

Final Site Survey Findings and Passive Infrastructure BOQ – PRAL SAARC Building LAN Network

This document consolidates the site survey findings and passive infrastructure BOQ to establish a common baseline for all bidders responding to the PRAL SAARC Building LAN Network requirement. All bidders shall quote against the same BOQ descriptions, units, and quantities.

- The building comprises a basement and five floors, with the 3rd-floor media room serving as the central point for the wired network infrastructure.
- Two core/aggregation switches (Core A and Core B) shall be installed in the 3rd-floor rack and interconnected through an HA link. Server-room switches shall connect to the core pair.
- Each floor rack shall accommodate five access switches: two PoE and three non-PoE switches.
- Floors 1, 2, 4, and 5 shall each have two 12-core OM3 multimode fibre uplinks to the 3rd floor, one to each core switch, routed through separate ducts.
- Two 2-core OM3 multimode fibre cables shall connect the 3rd floor to basement B2 through separate ducts, terminating on a single 6-port duplex fibre ODF.
- Fibre cables shall be indoor/outdoor tight-buffer type, Corning ClearCurve or equivalent. Fibre laying, termination, splicing, labelling, testing, and commissioning shall be included.
- PRAL shall provide one 32U, 19-inch floor-standing rack per floor, with two 10-way, 32A PDUs per rack. The bidder shall provide rail kits, mounting accessories, and six cable managers per rack.
- All bidders shall include the complete required accessories and installation services in their BOQ pricing.

Accordingly, the following amendments are made to the tender:

Revised Line Items	
Initial	**Revised**
Reference to technical marking criteria **Point # 3 (Tender Page 103)** **Mandatory Site Survey** Prior Site Survey 10 Marks	Revised to normal marking criteria not mandatory as site surveys already conducted and we have finalized the requirements.

Full marks are mandatory in site survey otherwise will be marked as noncompliant.	
Additional Line Items	
The OEM shall have a registered office in Pakistan, supported by documentary evidence, while the bidder shall maintain a registered office in Islamabad to ensure day-to-day support.	
The solution shall be deployed by OEM-certified engineers. The bidder shall provide five (5) years of support and maintenance, backed by the OEM for the entire support period.	
Final acceptance shall be subject to successful Layer 2 switching performance testing, VLAN configuration and isolation verification, trunk/access port functionality, Spanning Tree Protocol (STP/RSTP/MSTP) operation, link aggregation (LACP), redundancy and failover testing, and verification of all specified Layer 2 features and security controls.	
The proposed solution should be able to integrate with 3rd party VAPT tools e.g., Nexpose / Nipper / Nessus or equivalent for identifying the security gaps/vulnerabilities for Information Security compliance.	
Bidder must ensure to provide timely patches of known vulnerabilities, release software and security patches in regular intervals throughout the 5-year warranty support and SLA.	
Bidder must ensure that proposed solution should provision OEM's secure configuration guide.	
Proposed OEM should be able to comply with Industry best security control standards like ISO etc.	
Proposed solution should support best practice security hardening configuration standards like CIS/NIST/SANS or equivalent standards for IS compliance.	

Revised BOQ For Switches	
Initial Line Items	**Revised Line Items**
Type I (POE++) Layer II, 48 Port Access Switches **QTY = 10**	Unchanged
Type II Layer II, 48 Port Access Switches **QTY = 16**	Unchanged
Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories **QTY = 2**	Unchanged
Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC) **QTY = 2**	Unchanged
Stack cables/transceivers for core pair (sufficient to form redundant ring; type and length as per OEM design) **QTY** = As per Actual	Stack cables will for aggregation switches OEM specific. **QTY = 4**
Multi-mode 1G optical SFP's for uplinks **QTY = 194**	Unchanged
Multi-mode 10G optical SFP+ (aggregation to firewall) **QTY = 8**	Unchanged
1G Copper SFP must compatible with Aggregation SW **QTY = 15**	Unchanged
10G DAC cable for core-to-firewall / in-rack use (1m/3m as per rack layout) **QTY = 4**	Eliminated, as we will used fiber patch cords for core to firewall connectivity.
Multi-Mode Fiber optic uplinks from access switches to Aggregation switch third floor in a five-floor building **QTY = As per actual**	12-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables from 3rd floor to each of floors 1, 2, 4 and 5 and 3rd floor switches will

	also be connected to the core aggregation switch. **QTY = As per actual**
In case of additional switch requirement on the same floor with different location bidder will provide and laid fiber b/w the new switch & the floor rack ODF for all floors with all allied accessories. **QTY = As per actual**	Eliminated
Cable rolls (CAT6 Corning Original) **QTY = 2**	Unchanged
48 duplex port ODF for core switches **QTY = 2**	Multimode OM3 LC fibre ODF, **48 duplex port or** Multimode OM3 LC fibre ODF, **96-port simplex,** including couplers, pigtails and splice tray; 3rd-floor main data center for core switches **QTY = 2**
24 duplex Port ODF for floor access switches **QTY = 10**	Multimode OM3 LC fibre ODF, **24 duplex Port** or Multimode OM3 LC fibre ODF, **48-port simplex**, including couplers, pigtails and splice tray; one each on floors 1, 2, 4 and 5 for floor access switches **QTY = 6**
Fiber pigtails, splice trays, sleeves, adapters and ODF accessories **QTY = As per actual**	Unchanged
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (0.5 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (0.5 Meter) **QTY = As per actual**
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (1 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (1 Meter) **QTY = As per actual**

Fiber Patch cords, LC–LC Duplex, OM4, LSZH (3 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (3 Meter) **QTY = As per actual**
CAT6 Patch cords (0.5 Meter) **QTY = As per actual**	Unchanged
CAT6 Patch cords (1 Meter) **QTY = As per actual**	Unchanged
CAT6 Patch cords (3 Meter) **QTY = As per actual**	Unchanged
Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories **QTY = As per actual**	Unchanged
Rack mounting kits & power cords **QTY = As per actual**	Unchanged
Earthing/grounding kit and bonding accessories **QTY = As per actual**	Unchanged
Fire-stop sealing material and labeling materials **QTY = As per actual**	Unchanged
Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher **QTY = As per actual**	Unchanged
Installation, configuration, integration, testing and commissioning **QTY = 1 LOT**	Unchanged
Additional Line-Item BOQ	
2-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables from 3rd floor to basement B2 of 2-core each **QTY = As per actual**	
Fiber ODF MM OM3 LC 6 port (Including Couplers, Pigtails and Splice	

tray) (for Basement B2) **QTY = 1**
Cable management panel, front, 19-inch, 1U, plastic body, Corning or specified equivalent **QTY = As per actual**
Cable duct, 40 × 40 mm, Adamjee / Accufit / Dura or equivalent, PVC / flexible pipe, mixed sizes, suitable for the specified cable routes, **QTY = As per actual**
Cable ladder, fabricated from 16 SWG MS pipe and sheet, powder-coated, 10-inch × 2-inch, including couplers and brackets for UTP/fibre cables, Cable ties, tag ties, tagging material, screws, clamps and thimble for rack earthing **QTY = As per actual**
10 mm SC flexible cable for rack earthing, Fast Cables or equivalent, PU insulating foam sealant spray **QTY = As per actual**
Passive works services: fibre cable laying, duct/pipe installation, ODF installation, patch-panel termination, cable management, tagging, rack earthing and mounting of access points **QTY = As per actual**
CAT6 Uplink Cabling to Wi-Fi Access Points, where required, using Corning or equivalent cable. **QTY = As per actual**
Any missing or additional items required to complete the passive and active works shall be included in the bidder's scope under this BOQ line item. **QTY = As per actual**

NOTE-I: All measurements are in meters. Bidders shall quote the unit rate per meter for each applicable BOQ item measured by length.

NOTE-II: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables).

NOTE-III: PRAL reserves the right to increase or decrease the quantities by up to 15% at its sole discretion.

All amendments shall apply equally to all bidders. All other terms and conditions of the original tender shall remain unchanged. The revised bid submission deadline shall be as notified by PRAL. Failure to meet mandatory requirements shall be dealt with in accordance with the tender conditions and applicable procurement rules.

CORRIGENDUM Tender No. P-72/2026 Procurement of Enterprise-Grade Layer 2 (L2) Network Switches

Final Site Survey Findings and Passive Infrastructure BOQ – PRAL SAARC Building LAN Network

This document consolidates the site survey findings and passive infrastructure BOQ to establish a common baseline for all bidders responding to the PRAL SAARC Building LAN Network requirement. All bidders shall quote against the same BOQ descriptions, units, and quantities.

- The building comprises a basement and five floors, with the 3rd-floor media room serving as the central point for the wired network infrastructure.
- Two core/aggregation switches (Core A and Core B) shall be installed in the 3rd-floor rack and interconnected through an HA link. Server-room switches shall connect to the core pair.
- Each floor rack shall accommodate five access switches: two PoE and three non-PoE switches.
- Floors 1, 2, 4, and 5 shall each have two 12-core OM3 multimode fibre uplinks to the 3rd floor, one to each core switch, routed through separate ducts.
- Two 2-core OM3 multimode fibre cables shall connect the 3rd floor to basement B2 through separate ducts, terminating on a single 6-port duplex fibre ODF.
- Fibre cables shall be indoor/outdoor tight-buffer type, Corning ClearCurve or equivalent. Fibre laying, termination, splicing, labelling, testing, and commissioning shall be included.
- PRAL shall provide one 32U, 19-inch floor-standing rack per floor, with two 10-way, 32A PDUs per rack. The bidder shall provide rail kits, mounting accessories, and six cable managers per rack.
- All bidders shall include the complete required accessories and installation services in their BOQ pricing.

Accordingly, the following amendments are made to the tender:

Revised Line Items	
Initial	**Revised**
Reference to technical marking criteria **Point # 3 (Tender Page 103)** **Mandatory Site Survey** Prior Site Survey 10 Marks	Revised to normal marking criteria not mandatory as site surveys already conducted and we have finalized the requirements.

Full marks are mandatory in site survey otherwise will be marked as noncompliant.	
Additional Line Items	
The OEM shall have a registered office in Pakistan, supported by documentary evidence, while the bidder shall maintain a registered office in Islamabad to ensure day-to-day support.	
The solution shall be deployed by OEM-certified engineers. The bidder shall provide five (5) years of support and maintenance, backed by the OEM for the entire support period.	
Final acceptance shall be subject to successful Layer 2 switching performance testing, VLAN configuration and isolation verification, trunk/access port functionality, Spanning Tree Protocol (STP/RSTP/MSTP) operation, link aggregation (LACP), redundancy and failover testing, and verification of all specified Layer 2 features and security controls.	
The proposed solution should be able to integrate with 3rd party VAPT tools e.g., Nexpose / Nipper / Nessus or equivalent for identifying the security gaps/vulnerabilities for Information Security compliance.	
Bidder must ensure to provide timely patches of known vulnerabilities, release software and security patches in regular intervals throughout the 5-year warranty support and SLA.	
Bidder must ensure that proposed solution should provision OEM's secure configuration guide.	
Proposed OEM should be able to comply with Industry best security control standards like ISO etc.	
Proposed solution should support best practice security hardening configuration standards like CIS/NIST/SANS or equivalent standards for IS compliance.	

Revised BOQ For Switches	
Initial Line Items	**Revised Line Items**
Type I (POE++) Layer II, 48 Port Access Switches **QTY = 10**	Unchanged
Type II Layer II, 48 Port Access Switches **QTY = 16**	Unchanged
Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories **QTY = 2**	Unchanged
Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC) **QTY = 2**	Unchanged
Stack cables/transceivers for core pair (sufficient to form redundant ring; type and length as per OEM design)	Stack cables will for aggregation switches OEM specific. **QTY = 4**

QTY = As per Actual	
Multi-mode 1G optical SFP's for uplinks **QTY = 194**	Unchanged
Multi-mode 10G optical SFP+ (aggregation to firewall) **QTY = 8**	Unchanged
1G Copper SFP must compatible with Aggregation SW **QTY = 15**	Unchanged
10G DAC cable for core-to-firewall / in-rack use (1m/3m as per rack layout) **QTY = 4**	Eliminated, as we will used fiber patch cords for core to firewall connectivity.
Multi-Mode Fiber optic uplinks from access switches to Aggregation switch third floor in a five-floor building **QTY = As per actual**	12-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables from 3rd floor to each of floors 1, 2, 4 and 5 and 3rd floor switches will also be connected to the core aggregation switch. **QTY = As per actual**
In case of additional switch requirement on the same floor with different location bidder will provide and laid fiber b/w the new switch & the floor rack ODF for all floors with all allied accessories. **QTY = As per actual**	Eliminated
Cable rolls (CAT6 Corning Original) **QTY = 2**	Unchanged
48 duplex port ODF for core switches **QTY = 2**	Multimode OM3 LC fibre ODF, **48 duplex port or** Multimode OM3 LC fibre ODF, **96-port simplex,** including couplers, pigtails and splice tray; 3rd-floor main data center for core switches **QTY = 2**

24 duplex Port ODF for floor access switches **QTY = 10**	Multimode OM3 LC fibre ODF, **24 duplex Port** or Multimode OM3 LC fibre ODF, **48-port simplex**, including couplers, pigtails and splice tray; one each on floors 1, 2, 4 and 5 for floor access switches **QTY = 6**
Fiber pigtails, splice trays, sleeves, adapters and ODF accessories **QTY = As per actual**	Unchanged
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (0.5 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (0.5 Meter) **QTY = As per actual**
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (1 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (1 Meter) **QTY = As per actual**
Fiber Patch cords, LC–LC Duplex, OM4, LSZH (3 Meter) **QTY = As per actual**	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (3 Meter) **QTY = As per actual**
CAT6 Patch cords (0.5 Meter) **QTY = As per actual**	Unchanged
CAT6 Patch cords (1 Meter) **QTY = As per actual**	Unchanged
CAT6 Patch cords (3 Meter) **QTY = As per actual**	Unchanged
Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories **QTY = As per actual**	Unchanged
Rack mounting kits & power cords **QTY = As per actual**	Unchanged
Earthing/grounding kit and bonding accessories **QTY = As per actual**	Unchanged

Fire-stop sealing material and labeling materials **QTY = As per actual**	Unchanged
Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher **QTY = As per actual**	Unchanged
Installation, configuration, integration, testing and commissioning **QTY = 1 LOT**	Unchanged
Additional Line-Item BOQ	
2-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables from 3rd floor to basement B2 of 2-core each **QTY = As per actual**	
Fiber ODF MM OM3 LC 6 port (Including Couplers, Pigtails and Splice tray) (for Basement B2) **QTY = 1**	
Cable management panel, front, 19-inch, 1U, plastic body, Corning or specified equivalent **QTY = As per actual**	
Cable duct, 40 × 40 mm, Adamjee / Accufit / Dura or equivalent, PVC / flexible pipe, mixed sizes, suitable for the specified cable routes, **QTY = As per actual**	
Cable ladder, fabricated from 16 SWG MS pipe and sheet, powder-coated, 10-inch × 2-inch, including couplers and brackets for UTP/fibre cables, Cable ties, tag ties, tagging material, screws, clamps and thimble for rack earthing **QTY = As per actual**	
10 mm SC flexible cable for rack earthing, Fast Cables or equivalent, PU insulating foam sealant spray **QTY = As per actual**	
Passive works services: fibre cable laying, duct/pipe installation, ODF installation, patch-panel termination, cable management, tagging, rack earthing and mounting of access points **QTY = As per actual**	

CAT6 Uplink Cabling to Wi-Fi Access Points, where required, using Corning or equivalent cable. **QTY = As per actual**
Any missing or additional items required to complete the passive and active works shall be included in the bidder's scope under this BOQ line item. **QTY = As per actual**

NOTE-I: All measurements are in meters. Bidders shall quote the unit rate per meter for each applicable BOQ item measured by length.

NOTE-II: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables).

NOTE-III: PRAL reserves the right to increase or decrease the quantities by up to 15% at its sole discretion.

All amendments shall apply equally to all bidders. All other terms and conditions of the original tender shall remain unchanged. The revised bid submission deadline shall be as notified by PRAL. Failure to meet mandatory requirements shall be dealt with in accordance with the tender conditions and applicable procurement rules.

Price Format

SR. No	Product	Quantity	Unit Price in PKR (Exclusive of taxes)	GST/PST amount applicable per unit in PKR	Total Cost in PKR (Inclusive of all applicable taxes.)
	Type I (POE++) Layer II, 48 Port Access Switches	10			
	Type II Layer II, 48 Port Access Switches	16			
	Type-III Layer 2, 48 Port Aggregation Switches along with allied accessories	2			
	Type-IV Layer 2, 24 Port Aggregation Switches (FBR G5 DC)	2			
	Stack cables will for aggregation switches OEM specific	04			
	Multi-mode 1G optical SFP's for uplinks	194			
	Multi-mode 10G optical SFP+ (aggregation to firewall)	12			
	1G Copper SFP must compatible with Aggregation SW	15			
	12-core multimode OM3 fibre optic cable, indoor/outdoor tight-buffer, Corning or equivalent; two cables	As per Actual			

	from 3rd floor to each of floors 1, 2, 4 and 5 and 3rd floor switches will also be connected to the core aggregation switch.				
	Cable rolls (CAT6 Corning Original)	2 Roll			
	Multimode OM3 LC fibre ODF, **48 duplex port or** Multimode OM3 LC fibre ODF, **96-port simplex,** including couplers, pigtails and splice tray; 3rd-floor main data center for core switches	2			
	Multimode OM3 LC fibre ODF, **24 duplex Port** or Multimode OM3 LC fibre ODF, **48-port simplex**, including couplers, pigtails and splice tray; one each on floors 1, 2, 4 and 5 for floor access switches	06			
	Fiber pigtails, splice trays, sleeves, adapters and ODF accessories	As per Actual			
	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (0.5 Meter)	As per Actual			
	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (1 Meter)	As per Actual			

	Fiber Patch cords, LC–LC Duplex, **OM3,** LSZH (3 Meter)	As per Actual			
	CAT6 Patch cords (0.5 Meter)	As per Actual			
	CAT6 Patch cords (1 Meter)	As per Actual			
	CAT6 Patch cords (3 Meter)	As per Actual			
	Cable Trays/Duct/Conduit, Tagging of all Ports/Devices/ODF/Fibers etc. & all allied accessories	As per Actual			
	Rack mounting kits & power cords	As per Actual			
	Earthing/grounding kit and bonding accessories	As per Actual			
	Fire-stop sealing material and labeling materials	As per Actual			
	Spares (SFP/SFP+, DAC, patch cords) — 2 nos. of each type or 5% of installed quantity, whichever is higher	As per Actual			
	Installation, configuration, integration, testing and commissioning + (Annexure Corrigendum)	Lot			

Note: Type I, Type II, Type III, Type-IV switches & SFP/SFP+ for all switches must be from same-OEM (stacking ports with OEM stack/DAC cables).

OEM Backed warranty:

Comprehensive post-sales support for hardware, software, and licenses for five (05) years with 24×7 extendable support. NBD part replacement, in case of any part or hardware failure.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS PRAL