

PAKISTAN AERONAUTICAL COMPLEX BOARD, KAMRA

REQUEST FOR PRE-QUALIFICATION

1. Sealed Technical quotations for pre-qualification are invited from sales tax registered firms for procurement of following stores / items. Technical & commercial quotations are to be addressed to **Director Logistics, MRF PAC Kamra Distt Attock** and must be deposited as per following details:-

S No	Detail of Stores	Closing Time	Time & Date of opening
(a)	Pre-Qualification for establishment of TIER-III Software Defined Data Centre (SDDC) at PAC Kamra	1000 Hrs	1100 Hrs on 10-12-2018

2. For further details please visit PPRA website www.ppra.org.pk and PAC website www.pac.org.pk. In case of any query, please contact at e-mail addresses:- provmrf@pac.org.pk



PAKISTAN AERONAUTICAL COMPLEX
A SYMBOL OF EXCELLENCE IN AVIATION



PRE-QUALIFICATION FOR ESTABLISHMENT OF TIER-III SOFTWARE DEFINED DATA CENTRE (SDDC) AT PAC KAMRA

Introduction

1. Pakistan Aeronautical Complex (PAC) intends to build two state of the art Software Defined Data Centers compliant to TIA-942 Data Center standard and meeting Rated 3 (Tier-III) requirement {Referred as Data Centre (s) in the document}. We are looking for a company who should be experienced and certified with accreditation in the same business to handle various tasks in setting up our new data centers.

Objective

2. The PAC intends to establish two Data Centre comprising of about 8 racks each site with expendable capacity of 12 racks; One as Primary Site and Second as Disaster Recovery Site (DR Site), where all enterprise based mission critical business applications would be housed and executed on 24x7 basis.

Eligibility Criteria

3. The bidder should meet the following eligibility requirements. PAC will evaluate the proposals submitted against pre-qualification and after scrutiny of proposal; Firms will be short listed and ONLY short-listed firms will be issued RFP for further proposal submissions. Selected firms will submit Technical and Financial proposals separately.

(a) Participating firm should be Tier-1 partner of OEMs like Computing (Servers, Storage, and backup solutions), Networks (Data Center Switching, Routing, and Security), Power and Cooling solutions. Participating Firms should submit the documentary proof of the Manufacturer Authorization Letter (MAL) for major components (Computing, Network, Power & Cooling etc.) along with proposal is mandatorily required.

(b) This will be a **Turnkey Project** comprising of Shell Part and the Active part of the Data Center and partial proposals may lead to disqualification. Therefore, participating firm MUST be a **System Integrator** having expertise in Data Center, Computing, Switching, Security etc. so that all components should be integrated by single vendor. Similar Integration project references are required with documentary proof.

(c) The firm should have minimum of five years of experience in Data Centre design and implementation business.

(d) Firm should preferably have experience of working at minimum of two certified Rated-3 (Tier-3) data centers in the past 5 years in Pakistan.

(e) Joint Venture (JVs) of firms is allowed, however, complete details of the JV partners along with the extent of partnership should be furnished in response to this pre-qualification. It may be noted that the responsibility of the project will rest with the major JV partner.

- (f) Participating firms should have branch offices in major cities of Pakistan with at least one office in Islamabad.
- (g) Firm should have Technical team and certified resources on their company pay roll as permanent employees of the company. (Documentary proof required & to be submitted with the proposal).
- (h) Firm should be sound financially. Audited Financial reports for last 03 Years must be submitted with the Proposal.
- (i) The company must have minimum of two successful references for Data Center design and implementation in the region.
- (j) Firms already working with defense sector of Pakistan will be given preference, documentary proof needs to be submitted with the proposals.

Scope of Work

4. The areas that the firm is required to cover in this project must be as per TIA-942 Data Center standard which consist of but not limited to the following sections:-

- (a) Electrical
- (b) Mechanical
- (c) HVAC
- (d) Fire Detection, suppression & Prevention
- (e) Safety / Security
- (f) Data Centre Operations Center
- (g) Data Center Infrastructure Management System
- (h) Documentation

Broad Level Requirements

5. For Tier-III data center, there will be SHELL PART covering power, cooling, electrical, mechanical and civil work and ACTIVE PART covering computing (DB Servers, Application Servers, Enterprise Level SAN Storage, Backup solution), Network components (Switches, Firewalls, Routers, Load Balancers, etc).

6. In addition to this, there will be a requirement of establishing Operation and Management Centers.

7. Computing (Servers, Storage, backup) should be from single vendor, Networks (Routing, Switching, Security) should be from single vendor. Likewise, power and cooling solution should be from single vendor.

8. Integration of PAC existing Juniper based NGN network with new Data Centers will be responsibility of the firm. The participating firm should have certified technical resources to execute the project and post implementation support.

9. The broad scope of work consists of providing the following phases of the project which will be applicable after short listing of the firms.

(a) Planning Stage

- (i) Assessment of the current Data Center infrastructure.
- (ii) Preliminary assessment and capacity analysis of the new Data Center project requirements and the future roadmap.
- (iii) Sizing and requirement specifications for Tier-III Data Center facility after assessing projected business volume and considering the facilities already available at PAC Kamra.

(b) Design Stage

- (i) The selected company shall design the Data Center in line with minimum requirements as laid out in TIA-942, specifications for Rated-3 Data center, where possible.
- (ii) Should be able to deliver all Design Documents as per TIA-942 standard.
- (iii) Should be able to furnish Project Initiation Document (Inception Report).