

**CENTRAL POWER PURCHASING AGENCY
(GUARANTEE) LIMITED (CPPA-G)**



Tender

**For Establishing Data Center at CPPA-G
Document No. ERP-02/08-2016**

OFFICE OF CEO

**CPPA-G, 6th Floor, Shaheed-e-Millat Secretariat, Jinnah Avenue, Blue
Area, Islamabad Tel: 051-9213616, Fax # 051-9213617**

Table of Contents

1. INTRODUCTION	3
2. SCOPE OF WORK.....	4
3. INFORMATION FOR BIDDERS	5
4. TERMS AND CONDITIONS:	5
5. GENERAL CONDITIONS	7
6. PROCEDURE FOR BID SUBMISSION	7
7. COMPELTION PERIOD	8
8. EVALUATION CRITERIA	8
9. PAYMENT TERMS.....	8
10. LATE BID	9
11. AMENDMENT OF BID SCHEDULE	9
12. FAILURE AND TERMINATION.....	9
13. FORFEITURE OF SECURITY BOND/GUARANTEE (PERFORMANCE BOND).....	10
14. COST OF BIDDING	11
15. CLARIFICATION OF BIDDING DOCUMENTS	11
16. LANGUAGE OF BID	11
17. BID FORM.....	11
18. BID SECURITY.....	12
19. PRELIMINARY EXAMINATION.....	12
20. FORCE MAJEURE.....	12
21. CONSIGNEE	12
22. SETTLEMENT OF DISPUTES	13
23. LAWS GOVERNING THE CONTRACT	13
ANNEXURE 1: TECHNICAL INFORMATION FOR DATA CENTRE EQUIPMENT AND SERVICES	14
ANNEXURE II: Bill of Quantity (As Per Specification Mentioned In Annexure 1)	19
ANNEXURE III: QUALIFICATION CRITERIA	20

1. INTRODUCTION

In 2009, the GOP decided to create an independent company to perform the market functions and accordingly the Central Power Purchasing Agency (Guarantee) Limited (CPPA-G) was incorporated in 2009 in order to take over the CPPA of NTDC's existing market operation functions. CPPA-G would now be responsible for the complete spectrum of the market operation functions necessary for the efficient administration of the Single Buyer, the Single Buyer Plus and the wholesale electric power markets.

The GOP's main objectives for doing so were:

- a. The introduction of a new cash flow management system consistent with envisaged sector restructuring.
- b. Improved fiscal discipline, i.e., DISCOs' ability to honor debts, especially those arising from new investments, and to attract further investments for the sector that will result in credibility of sector operations.
- c. The introduction of measures to improve the power supply-demand balance, while ensuring a reasonable quality of service.
- d. Paving the way toward the next phase of market reform, i.e., competitive trading bilateral contract power market and retail market.

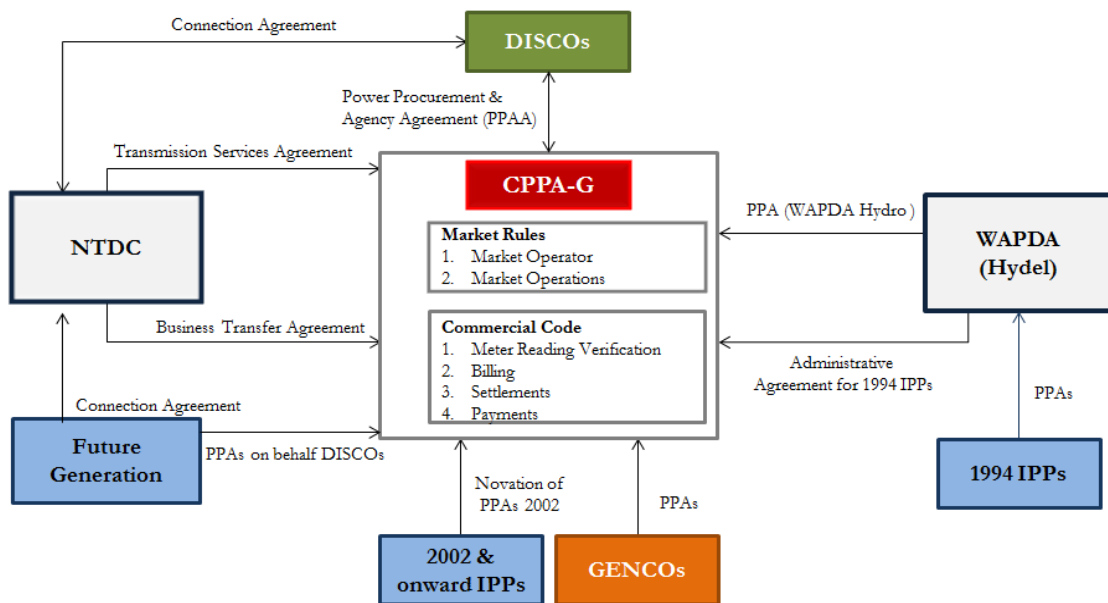
In addition to its function as a market operator, CPPA-G is to act as the sole agent of DISCOs and purchaser of capacity and energy from the Generation Companies, apart from Small Power Producers or other Generators, which have decided to contract bilaterally with the Distribution Companies, and to settle the energy and capacity taken by the Distribution Companies.

The functions, operations and responsibilities of CPPA-G assigned under the Market Operation Registration, (Standard and Procedure) Rules (Market Rules) and Commercial Code may be further prescribed by NEPRA but presently include the following:

- a. In accordance with the Grid Code and the Commercial Code:
 - i. Settlement and development of competitive power market from CPPA-G of NTDC and to carry on these functions and business.
 - ii. Procurement of electric power on behalf of the DISCOs, including import of power from other countries.
 - iii. Generation invoice verification on the basis of meter reading or dispatch scheduling report and terms of the respective PPAs.
 - iv. Billing DISCOs based on the meter readings per delivery points procedures.
 - v. Payment from the DISCOs and settlement to the Market Participants.
 - vi. Management of cash flow, treasury management and other relevant banking functions for purposes of collection and disbursement.

- b. Administration, maintenance and implementation of the Commercial Code and supervision of compliance by Market Participants, including the billing, settlement and payment procedures per the Commercial Code.
- c. Updating, implementing, administering and enforcing the Commercial Code in relation to the Market Rules.
- d. Collecting information and statistics and publishing reports and information relating to the performance of the Market Operator administered market.
- e. Administering the development of and amendments to the Commercial Code for submission to NEPRA for approval.
- f. Developing and implementing competitive power markets based on policies guidelines of the Federal Government and/or requirements of NEPRA.
- g. Liaising with other bodies having market functions similar to the Market Operator or administering competitive power markets.

Figure below illustrates the envisaged contractual arrangement of CPPA-G.



Sealed Tenders are invited from reputed and well established firms/companies registered with Sales Tax and Income Tax Departments for the establishment of Data Center as per specification and conditions mentioned below at CPPA-G Islamabad. During warranty period, the successful bidder will be responsible for repair/replacement of faulty equipment inclusive of labor charges.

2. SCOPE OF WORK

Establishing Data Center and structured cabling facilities at CPPA-G Head Office, Islamabad. Following requirements define the scope of work for this Tender:

- 2.1 It is a turnkey project and it is required that the bidder should survey the site before submission of the bid. The submitted bid will cover all services, devices or items, mentioned or unmentioned that are required for completion of this project as per specification and accepted standard / best practices required for such projects.
- 2.2 Provisioning of services and equipment for Data center room, Electrical wiring, Air-conditioning, etc. by the bidder. The selected bidder will be responsible for the supply, installation, Integration, testing and commissioning of all equipment and services, provided against this Tender.
- 2.3 Selected bidder must ensure that the supplied equipment is fully operational, new and performs properly and meet Tender Technical Specification.
- 2.4 At the time of installation and commissioning, selected bidder must provide comprehensive documentation of system/equipment deployed including system manuals, Electrical & Network diagrams, labeling, training and training manuals, etc.
- 2.5 Warranty & Support: Standard onsite warranty & support as offered by manufacturer or two years (whichever is higher) with parts and labor.

3. INFORMATION FOR BIDDERS

Name of Procuring Agency:	Central Power Purchasing Agency (Guarantee) Limited 6th Floor, Shaheed-e-Millat Secretariat, Jinnah Avenue, Blue Area, Islamabad.
Earnest Money:	CDR/Demand Draft/Pay Order equal to 2% of the total bid value to be enclosed in Financial Proposal at the time of bid submission.
Last Date of Bid Submission:	18 August, 2014 at 02:00 P.M
Bid Opening Date and Time:	18 August, 2014 at 02:30 P.M
Bid Opening Place:	Central Power Purchasing Agency (Guarantee) Limited 6th Floor, Shaheed-e-Millat Secretariat, Jinnah Avenue, Blue Area, Islamabad.
Contact Person:	Mr. Namet Ullah (Manager ERP)
Phone:	051-9213616
Fax:	051-9213617
Cell Phone:	0300-6672837
Email:	nukalair@yahoo.com

4. TERMS AND CONDITIONS:

- 4.1. The bidder should be registered with Sales Tax and Income Tax Department.
- 4.2. Bid should be submitted in Pak Rupees only.

- 4.3. Bidder firm has not been blacklisted by any Government/Semi Government organization.
- 4.4. CPPA-G reserves the right to accept/reject wholly or partially any tender at any stage of the tender process. Reasons may be provided upon written request.
- 4.5. Validity period of the bids shall be for at least 180 days.
- 4.6. The decisions of CPPA-G will be binding on all concerned and will in no case be challengeable at any forum or any court of law.
- 4.7. Bids are liable to be rejected if; they are not conforming the terms, conditions and specifications stipulated in this Tender.
- 4.8. During the examination, evaluation and comparison of the bids, the CPPA-G at its sole discretion may ask the bidder for clarifications of its bid. However, no change in the price or substance of the bid shall be sought, offered or permitted after bid submission.
- 4.9. The amount submitted as Earnest Money shall be refunded to the unsuccessful bidders after the decision for the award of said tender.
- 4.10. For this tender all updates/changes shall be communicated through email or by publishing on official website of CPPA-G.
- 4.11. It is a turnkey project where all the equipment quoted in BOQ is to be installed by the bidder and handed over in an optimized condition. The price for installation where not specifically asked for in BOQ, is assumed to be included within the equipment cost by the vendor.
- 4.12. The bidder must have office in Islamabad and fully capable to provide maintenance support from Islamabad office.
- 4.13. Bids submitted via email or fax will not be entertained.
- 4.14. Before start of work the selected bidder will get the proposed electrical wiring & distribution diagram (as per the scope of work), approved from CPPA-G.
- 4.15. The selected bidder should provide single line diagram of Electrical DB.
- 4.16. The selected bidder will be required to submit project implementation plan.
- 4.17. Total Bid Value shall cover cost of equipment including optional equipment, required as per specification.
- 4.18. Maximum of 8 hours response time and one business working day resolution time for all components including replacement of the whole unit at his own expense.
- 4.19. The bidder must provide mechanism to ensure conformity in accordance with clause 4.18.
- 4.20. In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.
- 4.21. Please mention the country of origin / manufacturing / assembly of the quoted brand / model.
- 4.22. The bidder will not be eligible if the material offered is Non Compliance with the specifications as given in the tender document. However higher specifications may be

considered.

5. GENERAL CONDITIONS

- 5.1 Successful bidder will have to submit a performance security in the shape of Bank Draft/Bank Guarantee from a schedule bank of Pakistan on the prescribed form valid for 12 months from the receipt of last consignment, equal to 5% of the total value (inclusive GST). The Performance security shall be furnished with the acceptance of Letter of Intent and before the formal issuance of the Purchase Order.
- 5.2 CPPA-G reserves the right to increase/decrease the quantities up to 15% at the time of award/during the currency of contract.
- 5.3 CPPA-G also reserves the right to scrap this tender as per PPRA rules, 2004 (amended to date).
- 5.4 After opening the tender if it is established that the bidders have quoted a single price then CPPA-G reserves the right to scrap the tender and invite fresh tender or to take any decision as deemed fit for CPPA-G.
- 5.5 CPPA-G reserves the right to modify the bidding documents at any time prior to the deadline for submission of bids, on the request of the prospective bidders for any clarification or at its own initiative, for any reason. This amendment shall constitute part of the bidding documents. In order to afford the prospective bidders a reasonable time to take the amendments into account in preparing its bid, CPPA-G may at its discretion extend the deadline.

6. PROCEDURE FOR BID SUBMISSION

- 6.1. For this tender 'Single stage- Two envelope procedure' for open competitive bidding shall be adopted.
- 6.2. Bid envelope submitted will comprise of a single envelope containing two separate closed / sealed envelopes containing Technical and Financial proposal.
- 6.3. Technical proposal envelope should be marked as "Technical proposal for Establishment of Data Center" and should include following documents:
 - 6.3.1 Technical brochure of the offered model / equipment.
 - 6.3.2 Company profile.
 - 6.3.3 List of customers (corporate sector) along with their contact details
 - 6.3.4 Technical specification (Annexure I) document completely filled, signed and stamped for identifying offered equipment.
 - 6.3.5 Partner Authorization letter from Manufacturer.
 - 6.3.6 Income Tax and GST certificates of the bidder.
 - 6.3.7 Any other document required as per this tender document.

- 6.4. Financial proposal should be marked ‘Financial proposal for Establishment of Data Center’ and contain bid price filled as per BOQ (Annexure II) for Establishment of Data Center as per specification given in Annex 1 and bank draft for the earnest money.
- 6.5 In first stage only the ‘Technical proposals’ will be opened in the presence of bidder’s representatives having valid authority letter from their respective organizations.
- 6.6 Technical proposals of the bidders will be evaluated, generally for compliance of ALL the requirements given in the tender document and specifically for Qualification Criteria given in Annexure III.
- 6.7 Vendors who will not submit all required documents / information as per Qualification Criteria and do not meet the qualification requirement will be declared as Non-Qualified Vendors.
- 6.8 As a part of technical evaluation, bidders may be asked to arrange visit to their completed projects.
- 6.9 On the basis of Qualification Criteria, the financial proposal of only technically qualified bidder will be opened in the presence of their representatives having valid authority letter from their respective organizations.
- 6.10 Financial proposals of bids found technically non-responsive will be returned un-opened.

7. COMPELTION PERIOD

The project completion period is three (03) weeks, which can be at most extended for one (01) week by CPPA-G, at its discretion, after evaluating the justification of such request.

8. EVALUATION CRITERIA

The lowest financial bid of technically responsive bidders will be accepted.

9. PAYMENT TERMS

- 9.1 Fifteen percent (15%) Advance after awarding of work.
- 9.2 Twenty percent (20%) after completion of work given under point 1.8 & 1.12 of Annexure II, Tender document.
- 9.3 Twenty percent (20%) after completion of work given under point 1.3 & 1.4 of Annexure II, Tender document.
- 9.4 Forty percent (40%) payment shall be payable to the vendor upon formal acceptance of the completed Data center as per tender, by IT department, CPPA-G.
- 9.5 Remaining Five percent (5%) payment shall be payable to the vendor upon completion of warranty and support period upon formal acceptance of Warranty & Support period completion.
- 9.5 All payments shall be made after deduction of taxes.
- 9.6 All payments shall be made through cross cheque in the Pak Rupees.
- 9.7 Taxes will be deducted at source as per government rules at the time of payment.

9.8 Bidder should mention any other charges/optional charges in financial bid deemed necessary to complete and compare final bid amount. (all-inclusive including taxes).

9.9 The Payment (including Sales Tax) will be made by CPPA-G on production of following documents:

- i) Bill in triplicate for 100% claim, approved by the Director General (IT) CPPA-G and pre-audited by office of CFO.
- ii) Delivery challan and GRN duly stamped and signed by the consignee
- iii) Warranty Certificate
- iv) Confirmation of Director General (IT) about acceptance of Performance Bond in case of the first claim.
- v) Inspection Certificate issued by Director General (IT) or his authorized representative.
- vi) GST amount will be deducted at the time of making payment as per FBR rules.
- vii) Professional Tax Paid Certificate by the firm.
- viii) The manufacturer in its invoices shall also give an undertaking that in case of omission of any deductible amount, CPPA-G's claim at any later stage (through pre-audit or post audit) shall be acceptable to bidder.

While raising invoice for the material or services supplied the firm shall vividly mention the account number as well as the name of the bank and branch enabling Chief Financial Officer Office to release payment thereof accordingly.

10. LATE BID

Bidder will himself be responsible for ensuring that his bid is submitted in accordance with the instructions stated herein. Any bid not submitted by the deadline prescribed for submission of bids will not be considered even if it becomes late as a result of circumstances beyond the Bidder's control.

11. AMENDMENT OF BID SCHEDULE

- a) At any time prior to the deadline for submission of bids, the purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by amendment.
- b) The amendment will be notified in writing or by telex or cable to all prospective bidders who have received the bid schedule/bidding documents and will be binding on them.
- c) In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the purchaser may at its discretion extend the deadline for the submission of bids.

12. FAILURE AND TERMINATION

- (A) If bidder fails to complete the work or any consignment thereof within the specified delivery period, the purchaser shall be entitled at his option either;

- i) CPPA-G will be entitled to deduct an amount, not exceeding 5%, of the bid value from the final payment except;
 - a) Where un-delivered work hold up the use of other work, liquidated damages shall be levied on the total value of the Contract.
 - b) The recovery of liquidated damages mentioned above can be effected from any payment due to bidder from any unit of CPPA-G/DISCOs/GENCOs/NTDC/WAPDA, or
- ii) To purchase from elsewhere without notice to bidder at bidder's risk and cost, the stores not delivered, without canceling the contract in respect of the consignment not yet due for delivery.
- iii) To cancel the contract at bidder's risk and cost;

In the event of action being taken under (ii) or (iii) above, bidder shall be liable for any loss which the purchaser may suffer on the account; but bidder shall not be entitled to any gain on repurchase made against the supply order.

- (B) If during the course of execution of contract, bidder is black-listed by DISCOs/GENCOs/NTDC/WAPDA/CPPA-G, the purchaser may proceed with all or any of the actions detailed below:
 - i) To allow the contract to run its course till completed in accordance with the terms and conditions of Contract.
 - ii) To stop further supplies with or without financial repercussions;
 - iii) To cancel the contract with or without reservation or rights.

NOTE:

While determining liquidated damages the purchaser shall not consider any of the following circumstances, a cause under "FORCE MAJEURE" and shall not allow any relaxation in the liquidated damages on the account:-

- i) Delay on the part of the contractor in the arrangement of raw materials and services.
- ii) Defect or failure occurring to any machinery or equipment installed at the contractor works during the currency of the contract.

13. FORFEITURE OF SECURITY BOND/GUARANTEE (PERFORMANCE BOND)

The contracting officer will have the right to forfeit the security Bond/Guarantee (performance bond)

- 13.1 If the contractor:
- 13.2 fails to supply the goods or services within the time specified;

Commits any breach of contract;

13.3 Fails to account for the Import License issued on account of the purchase;

13.4 Fails to account for the raw material secured by the contractor against any license or permit issued on account of the Contracting Officer.

13.5 Fails to return drawings, design or any material belonging to the contracting officer which was to be returned in good condition to the Contracting Officer after the successful termination of the contract.

13.6 For other reasons specified in the Purchase Order by the contracting officer for forfeiting the security deposit.

13.7 If the forfeiture of the security deposit does not compensate the contracting officer for losses suffered due to non-delivery or breach of contract for any other reasons, the Contracting Officer will have a right to forfeit other security deposits or to recover the same from any other security deposit made in favor of any other unit of DISCOs/GENCOs/NTDC/CPPA-G or from any money due to the Contractor from any unit of WAPDA/CPPA-G /DISCOs/GENCOs/NTDC.

14. COST OF BIDDING

The bidder shall bear all the costs associated with the preparation and submission of its bid, and the purchaser named in the Bid data sheet, hereinafter referred as “the purchaser” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

15. CLARIFICATION OF BIDDING DOCUMENTS

A prospective bidder requiring any clarification of the bidding document may notify the purchaser in writing or by cable (hereinafter the term cable is deemed to include telex and facsimile) at the purchaser address indicated in the bid data sheet.

The purchaser will respond in writing to any request for clarification of the bidding documents which it receives not later than fifteen days.

16. LANGUAGE OF BID

The bid prepared by the bidder shall be written in the English, supporting documents and printed literature furnished by bidder may be in another language provided they are accompanied by accurate translation in English, for purpose of interpretation of the bid.

17. BID FORM

The Bidder shall complete the bid form and the appropriate price schedule furnished in the bidding document, indicating the goods or services to be supplied, a brief description of the goods of services, their country of origin quantity and prices.

All other bid offering goods from within the country of the purchaser.

18. BID SECURITY

18.1 The bidder shall furnish, as part of its bid, a bid security in the amount specified in the bid.

18.2 The bid security is required to protect the purchaser against the risk of bidders conduct which would warrant the security's forfeiture.

18.3 The bid security may be forfeited

If a bidder;

- a) Withdraws its bid during the period of bid validity specified by the bidder on the bid form, or
- b) Does not accept the correction of error or in case of a purchaser bidder, if the bidder fails
- c) To sign the contract in accordance with the clause of contract or
- d) To furnish performance security in accordance with clause of contract after issue of LOI

19. PRELIMINARY EXAMINATION

19.1 The purchaser will examine the bid to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

19.2 Arithmetical error will be rectified on the following basis, if there is a discrepancy between the 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. If there is a discrepancy between words and figures, the amount in words will prevail, if the suppliers not accept the correction of the errors, its bid will be rejected and its bid security may be forfeited.

20. FORCE MAJEURE

19.3 Notwithstanding the provision of GCC Clauses, the supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an events of Force Majeure.

19.4 For purpose of this clause "Force Majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and no restricted to act of the purchaser, epidemics, quarantine restrictions and freight embargoes.

19.5 If a Force Majeure situation arises, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

21. CONSIGNEE

Manager (Computer/IT), CPPA-G, Islamabad.

22. SETTLEMENT OF DISPUTES

- (1) If any dispute or difference of any kind whatsoever shall arise between the Purchaser and the Supplier in connection with or arising out the Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- (ii) If after 30 days the parties have failed to resolve their dispute or difference by such mutual consultation, then either party the purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided as to the matter in dispute and no arbitration in respect of this matter may be commenced unless such notice is given.
 - a) Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this clause shall be finally settled by arbitration. Arbitration may be commence prior to or after delivery of the goods under the contract.
 - b) Arbitration proceeding shall be conducted in accordance with the rules of procedure specified in the SCC.
 - c) Notwithstanding any reference to arbitration herein
 - i) The parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - ii) The purchaser shall pay the supplier any monies due to the supplier.

23. LAWS GOVERNING THE CONTRACT

- a) The contract shall be governed by the Laws of Pakistan as amended from time to time.
- b) Subject to the above conditions, a binding contract has been concluded with the issuance of this letter and that the provisions of this contract shall be binding on bidder, on bidder's assigns, executors, administrators and all those who have any interest pecuniary or otherwise in bidder's concern.

ANNEXURE 1: TECHNICAL INFORMATION FOR DATA CENTRE EQUIPMENT AND SERVICES

Equipment Category	Equipment Type	Equipment and Services Specifications	QTY	Compliance (Y/N)	Comments	Model	Ref. Brochure	
1.1 Rack Accessories	1.1.1 Patch Panel	Classic 24 port patch panel	08					
		Branded like Clipsal, 3M or Equivalent						
		Manufacturer certified for Authenticity (MAL)						
		Inclusive of cable management panel/Arms						
1.2 Structured Data Cabling	1.2.1 Cat 6 Cable Roll (from Data center to nodes)	Branded like Clipsal, 3M or equivalent	15					
		Manufacturer certified for authenticity (MAL)						
		1000 feet per roll						
		4 pair Cat-6 UTP cable 23 AWG solid copper						
	1.2.2 Cable Trays, Piping and Ducting	Cables routed in the false ceiling be enclosed in PVC pipes/Duct of adamjee or equivalent	Lump Sum					
		Supply of Galvanized Cable Tray 10x4 for Data with Accessories complete in all respect	30 Ft					
		Supply of Galvanized Cable Tray 4x4 for power with Accessories complete in all respect	30 Ft					
		Separate from Power Trays						
	1.2.3 Face Plates	Cat 6	110					
		Single Shutter with back box						
		Clipsal, 3M or Equivalent						
		Manufacturer certified for authenticity (MAL)						
	1.2.4 Patch Cord 1 Meter	Cat 6, 4 pair, RJ45 to RJ45	110					
		Manufacturer certified for Authenticity						
1.2.5 Patch Cord 3 Meter	Cat 6, 4 pair, RJ45 to RJ45	110						
	Manufacturer certified for Authenticity (MAL)							
1.2.6 Cat-6 Information Outlet	Branded Like Clipsal, 3M or equivalent	110						
	Cat-6 Rj-45 Outlet K6 Jack							
1.2.7 Cable Laying termination & services	For 110 Nodes	1						
1.2.8 Patch Panel wiring on rack	As per international cabling standard (EIA/TIA)							

	1.2.9 Harnessing Labeling cable Management of rack	As per international cabling standard (EIA/TIA)					
1.3 Data Centre DB	1.3.1 Distribution Box	24*30 Distribution Box containing Panel Lights, Volt Meter	1				
		Separate wiring for / Equipment and lighting					
		Installation and distribution panel layout and wiring with C/B catering for mains, UPS, load distribution, safety, etc.					
		Installation and wiring of independent C/B each for lightening, A/C, Equipment, etc.					
		Labeling and Documentation					
	1.3.2 Circuit Breakers included in DB	Brand Schlender/Lingard or equivalent					
		60 Amps Triple Pole for data center db and main db	02				
		32 Amps for UPS IN/OUT	02				
		32 Amps for AC	02				
		16 Amps for Rack	04				
10 Amps for light		02					
10 Amps for Access Control		01					
10 Amps for work station	02						
1.4 Electrical Wiring	1.4.1 Power Cables	All power cables Specification make Pakistan Cables or equivalent					
		Installation of Electric Wiring for data center and other nodes					
		Separate wiring for Equipment and lighting					
		From UPS (with in data center) to Data center DB 16mm 3 Core	10 Meter				
		From Data center DB to UPS 16mm 3 Core	10 Meter				
		6mm (7 x 36) 4 Core Cable for Rack 04	40 Meter				
		6mm (7 x 36) 4 Core Cable for quantity 02 AC					
		2.5mm (7 x 29) Cable for 07 workstation from Data center DB to individual workstations	45 Meter				
	1.4.2 Piping and Ducting	PVC pipes various sizes					
		Ducts various sizes					
1.5 Industrial Sockets	1.5.1 Industrial sockets for	Clipsal, Giro/ Sara or equivalent Industrial sockets 16 AMP 3 pin for rack supply	04				

	racks & ups	Clipsal, Giro / Sara or equivalent Industrial sockets 32 AMP single phase for UPS in/out	02				
1.6 Equipment Earth	1.6.1 Earth Pit	OEM Earth Pit construction and termination in all respect	Lump Sum				
		Distribution of Earth points for equipment and Each Socket	--				
	1.6.2 Earth Cable	From Earth Pit (ground floor) to Data center (1 st floor) DB 16mm single core	150 Ft				
1.7 Fire Suppression	1.7.1	FM200 Fire Suppression System, CTEC UK Panel, With Sounder, Smoke Detectors, Nozzle, 32Ltr Cylinder with Gas, with All mechanical and Electrical work.	01				
		FM 200 Fire tube for each rack 2 meter Fidiás	4				
		Complete installation in all respect					
1.8 Air- conditioning system	1.8.1 Split type AC	1.5 Ton General, Mitsubishi, Daiken or equivalent	02				
		UPVC Drainage line	Lump Sum				
		GI Drainage tray	02				
		Copper piping for Gas	Lump Sum				
		Power plugs 16 Amp for AC	02				
		Automatic Sequence Controller For ACS	01				
		Complete installation in all Respect					
1.9 Emergency Shutdown	1.9.1 Emergency power off	EPO (for RAW+ UPS supply cut off) with box	01				
		Emergency shutdown for single point of equipment disconnect for all electronic systems in the room					
		Complete Installation					
1.10 Access Control system	1.10.1 Access Control system	HIT Indonesia/ VIRDI or equal	01				
		Access Control Software					
		Access logging/tracking					
		Standalone					
		Card Reader at Data center Entrance					
		Push Button at Data center Exit					
		RFID Cards					
		Dead Bolt Locks					
		Complete Installation					
	1.10.2 CCTV	Supply & Installation of Scout/HIK Vision or equivalent 3x CCTV Cameras with Hard	01				

		drive and NVR					
	1.11.1 Environmental Control	Sky Control or Equivalent	01				
1.11 Environmental Control Room Alert System	1.11.1 Environmental Control	Management Software	01 120				
		Maintain Event Logs					
		Alarm Bell					
	1.11.2 Smoke Detector	Complete Installation					
		Meet the data center standard					
	1.11.2 Smoke Detector	Complete Installation and integration with Room Alert System					
		Meet the data center standard					
	1.11.3 Temperature and Humidity Sensor	Complete Installation and integration with Room Alert System					
Mero or equivalent							
1.12 Construction of server Room	1.12.1 Flooring (17pprox. 11'3"x9'3")	Antistatic and fire proof tiles 24"x24"	120 As per room size				
		Document proof have to provide for antistatic and fire proof					
		1.12.3 Civil Work					
	1.12.3 Civil Work	Fire proof paint	Lump Sum				
		1.12.4 Glass Work	Civil work services	Lump Sum			
	12 mm tempered Fired resistance						
	1.12.4 Glass Work	Meet the data center requirement					
		1.12.5 Electrical wiring of server room	Glass door 7' X 3.5' with Aluminum Deluxe Section door closure 12 mm tempered glass				
			Glass Work Services	Lump Sum			
		Complete wiring of server room in all respect	Lump Sum				
1.13 Server Room Racks	Rack	Branded Dell/HP or equivalent NetShelter SX 42U 600mm Wide X 1070mm Deep Enclosure with Sides Black	3				
	KVM	Branded Dell/HP or equivalent KVM 8-Port Switch	3				
	LED and	Branded Dell/HP or equivalent	3				



	Keyboard	1U KVM mounting bracket for LED 18.5" LED KMM Console 18.5" in LED KMM – International English Keyboard					
		Total					

Note:

This tender is governed by General Conditions of Contract for by WAPDA dated 12.8.1984 (amended to date) and latest purchase procedure PPRA-2004 (amended to-date).

ANNEXURE II: Bill of Quantity (As Per Specification Mentioned In Annexure 1)

Equipment Category	Unit Price (w/o Taxes)	Taxes	Unit Price (with Taxes)
1.1 Rack Accessories (As Per Specification in Annexure I Point 1.1)			
1.2 Structured Data Cabling (As Per Specification in Annexure I Point 1.2)			
1.3 Data Center DB (As Per Specification in Annexure I Point 1.3)			
1.4 Electrical Wiring (As Per Specification in Annexure I Point 1.4)			
1.5 Industrial Sockets (As Per Specification in Annexure I Point 1.5)			
1.6 Equipment Earth (As Per Specification in Annexure I Point 1.6)			
1.7 Data Center Lighting (As Per Specification in Annexure I Point 1.7)			
1.8 Air-Conditioning System (As Per Specification in Annexure I Point 1.8)			
1.9 Emergency Shutdown (As Per Specification in Annexure I Point 1.9)			
1.10 Access Control system (As Per Specification in Annexure I Point 1.10)			
1.11 Environmental Control room alert system (As Per Specification in Annexure I Point 1.11)			
1.12 Construction of Server Room (As Per Specification in Annexure I Point 1.12)			
1.13 Server Room Racks (As Per Specification in Annexure I Point 1.13)			
Warranty & Support			
Total Price			

ANNEXURE III: QUALIFICATION CRITERIA

Vendors who will meet the following conditions and submit the documents / statements / information as mentioned, will be declared Qualified Vendors while others will be classified as Non-Qualified Vendors.

1. Income Tax Certificate and GST Certificate (Copy to be provided).
2. Partner Authorization letter from Manufacturer.
3. Successful implementation of at least three (03) similar projects* completed within last three years Testimonial from the customer or can be confirmed by CPPA-G through the contact details provided.
4. The data center project completed during last three years and in hand should have a combined worth of at least Rs 10.0 Million (list and Testimonial from customer to be provided). The participating company should provide the details of experience in similar projects according to the following format:

Sr. #	Nature of Project (small brief)	Value of Project	Size of project	Name of the customer with contact person & contact details
-------	---------------------------------	------------------	-----------------	--

5. List of technical support staff with length of service with vendor
6. Compliance of the offered model / product with the specification mentioned in Technical Information. Annexure I completely filled signed and stamped to be included.
7. Completely Filled Bill of Quantity as per equipment quantity given under Annex II.
8. Project implementation plan as per Delivery Period.
9. Technical proposal documents be duly signed and stamped.

* Project listed should be of the same or higher specification than this Tender