



No:10-PMU/BOR/2016/3980

**BOARD OF REVENUE OF SINDH**  
**REFORMS WING & SPECIAL CELL**

Karachi, Dated: 22-04-2016

To,

The Director (Advertisement),  
Information Department,  
Government of Sindh,  
Karachi.

**Subject: ADVERTISEMENT OF TENDER NOTICE FOR "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT OF A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT" UNDER THE SCHEME NAMEDLY "AUTOMATION OF STAMPS REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH"**

Enclosed please find herewith 04 (four) copies of "Notice Inviting Tender" for "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT OF A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT" of BOR Sindh. The tender notice may please be got published in three leading National Daily Newspapers in English, Urdu & Sindh at the earliest.

Assistant Director P/CM  
LARMIS, PMU  
Board of Revenue, Sindh

A copy is forwarded for information to:-

1. The Additional Chief Secretary (Dev), P&D Department, Govt. of Sindh, Karachi.
2. The Member R&S, Board of Revenue, Sindh
3. The Secretary Information Department, Govt. of Sindh, Karachi.
4. The Project Director ASR, Board of Revenue, Sindh
- ✓ 5. The Manager (C.B), Sindh Public Procurement Authority, Karachi, alongwith a copy of bidding document, notification of PC, CRC, extract of APP, and NIT with a request to publish the attached bidding document on the website of SPPRA as per Rule 21(4) of SPP Rules 2010.
6. The Deputy Director F&A, ASR, Board of Revenue, Sindh
7. The Section Officer to the Senior Member, Board of Revenue Sindh, Karachi.
8. The Focal Person Website: [www.borsindh.gov.pk](http://www.borsindh.gov.pk)

Assistant Director P/CM  
LARMIS, PMU  
Board of Revenue, Sindh



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**Subject: ADVERTISEMENT OF TENDER NOTICE FOR "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT OF A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT" UNDER THE SCHEME NAMEDLY "AUTOMATION OF STAMPS REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH"**

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*22/4/16*  
**R&I Incharge**  
Advertisement Section  
Information Department  
Govt. of Sindh, Karachi

*22/4/16*  
o/c **Assistant Director P/CM**  
LARMIS, PMU  
Board of Revenue, Sindh

A copy is forwarded for information to:-

1. The Additional Chief Secretary (Dev), P&D Department, Govt. of Sindh, Karachi.
2. The Member R&S, Board of Revenue, Sindh
3. The Secretary Information Department, Govt. of Sindh, Karachi.
4. The Project Director ASR, Board of Revenue, Sindh
5. The Manager (C.B), Sindh Public Procurement Authority, Karachi, alongwith a copy of bidding document, notification of PC, CRC, extract of APP, and NIT with a request to publish the attached bidding document on the website of SPPRA as per Rule 21(4) of SPP Rules 2010.
6. The Deputy Director F&A, ASR, Board of Revenue, Sindh
7. The Section Officer to the Senior Member, Board of Revenue Sindh, Karachi.
8. The Focal Person Website: [www.borsindh.gov.pk](http://www.borsindh.gov.pk)

*22/4/16*  
o/c **Assistant Director P/CM**  
LARMIS, PMU  
Board of Revenue, Sindh

Office address: - C-73, Kahkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251367-68, 021-99251416  
Fax: +92-21-35305586, [www.sindharmis.gos.pk](http://www.sindharmis.gos.pk)





OFFICE OF PROJECT DIRECTOR AUTOMATION OF STAMPS & REGISTRATION  
REFORMS WING & SPECIAL CELL, BOARD OF REVENUE GOVERNMENT OF SINDH

**NOTICE INVITING TENDER**

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, invites sealed bids for the assignment as per prescribed procedure of single stage - two envelope bidding process, under SPPR 2010 from all interested bidders under the approved revised ADP (2015-16) scheme **AUTOMATION OF STAMPS & REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH:**

S.No.	Description of Assignment	Cost of Bidding Document (Rs.)	Bid Security (% of Bid Price)
01	"SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT OF A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT"	Rs.2,000/-	2%

**NOTE:** Detailed specifications are available in the bidding documents, which can be purchased from the office of PD ASR, Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kahkashan, Block-2, Clifton, Karachi. The bidder must bid for all the items of the assignment. Detailed TORs are specified in the bidding document.

**Instructions:**

- Interested eligible bidders may obtain further information on the bid and collect the bidding documents for the above assignment from the office of Project Director Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kahkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251368, 021-99251416 / Fax: +92-21-99251373 from **Wednesday April 27<sup>th</sup> 2016** during office Hours, i.e. from 9:00 am to 5:00 pm on payment of document fee of Rs. 2,000/- (non-refundable) in the form of Pay order/Demand Draft in favour of Project Director Automation of Stamps & Registration, Board of Revenue, Sindh till **12:00 PM on Thursday May 12<sup>th</sup> 2016**. Further information / clarifications may also be obtained from the same office.
- The bidding documents can also be downloaded from the website of SPPRA, i.e. [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk) or the website of BOR, Sindh, i.e. [www.borsindh.gov.pk](http://www.borsindh.gov.pk), in which case document fee may be submitted alongwith the bid. Only the bids submitted with the document fee or a proof of payment thereof will be considered as eligible for participation in the bidding process.
- Tender Bids in sealed envelope for the above assignment as per information given in the bidding documents are required. Interested bidders for bids should submit two separate envelopes, i.e. the technical & financial proposal for along with 2% bid security of the quoted amount of the total bid in the form of Pay Order / Demand Draft at the office of the Project Director Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kahkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251415-16, 021-99251416, 021-99251368/ Fax: +92-21-99251373, on or before **Thursday May 12<sup>th</sup> 2016 at 03:00 PM**. Further information / clarification may also be obtained from the same office.
- The **technical proposals** submitted against the respective RFP will be opened by the Procurement Committee on same day, i.e. **Thursday May 12<sup>th</sup> 2016 at 03:30 pm** in the Committee room of the Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi, Tel: +92-21-99251368/ Fax: +92-21-99251373 in presence of all the bidders, or their representatives, who may choose to be present.
- All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
- Only bids offered on the prescribed tender forms issued in the bidding documents by the office of the Project Director ASR, Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, shall be accepted. However, additional sheets may be attached, if necessitated.
- Conditional tenders / applications will not be entertained.
- The Procuring agency may cancel the bidding process at any time prior to the acceptance of a bid or proposal under Rule 25 (1) of SPP Rules 2010.
- The procuring agency shall announce the results of bid evaluation in the form of a report, giving justification for acceptance of a bid or proposal, subject to the relevant provisions of SPP RULES 2010.
- This notice can also be seen in the website of SPPRA i.e. [www.pprasindh.gov.pk](http://www.pprasindh.gov.pk) as well as in the website of Board of Revenue, Sindh, i.e. [www.borsindh.gov.pk](http://www.borsindh.gov.pk)
- Please note that in case of any emergency situation posing a natural calamity or declaration of public holiday by the Government of Sindh, the bid submission and opening timelines would be extended to the next working date.

-sd/-

Project Director  
Automation of Stamps & Registration  
Board of Revenue Government of Sindh

Office address: - C-73, Kahkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251415-16, 021-99251368 Fax:  
+92-21-99251373, [www.borsindh.gov.pk](http://www.borsindh.gov.pk)





**OFFICE OF PROJECT DIRECTOR  
AUTOMATION OF STAMPS  
& REGISTRATION**

**NOTICE INVITING TENDER**

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, invites sealed bids for the assignment as per prescribed procedure of single stage two envelope bidding process, under SPPR 2010 from all interested bidders under the approved revised ADP (2015-16) scheme AUTOMATION OF STAMPS & REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH:

*The news*

Sr	Description of Assignment	Cost of Bidding Document (Rs.)	Bid Security (% of Bid Price)
01	"Supply & Installation Of It, Hardware And Electronic Equipment Alongwith Support & Maintenance Services For The Project Management Unit Of A.S.R & Allied Facilities Of Stamps & Registration Department"	Rs. 2,000/-	2%

*24/4/16*



NOTE: Detailed specifications are available in the bidding documents, which can be purchased from the office of PD ASR, Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kalkashan, Block-2, Clifton, Karachi. The bidder must bid for all the items of the assignment. Detailed TORs are specified in the bidding document.

- Instructions:
- Interested eligible bidders may obtain further information on the bid and collect the bidding documents for the above assignment from the office of Project Director Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kalkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251368, 021-992514161 Fax: +92-21-99251373 from Wednesday April 27 2016 during office hours, i.e. from 9:00 am to 5:00 pm on payment of document fee of Rs. 2,000/- (non-refundable) in the form of Pay Order/Demand Draft in favour of Project Director Automation of Stamps & Registration, Board of Revenue, Sindh till 12:00 PM on Thursday May 12th 2016. Further information/clarifications may also be obtained from the same office.
  - The bidding documents can also be downloaded from the website of SPPRA, i.e. [www.sppra.sindh.gov.pk](http://www.sppra.sindh.gov.pk) or the web site of BOR, Sindh, i.e. [www.bor.sindh.gov.pk](http://www.bor.sindh.gov.pk), in which case document fee may be submitted alongwith the bid. Only the bids submitted with the document fee or a proof of payment thereof will be considered as eligible for participation in the bidding process.
  - Tender Bids in sealed envelope for the above assignment after information given in the bidding documents are required. Individual bidders for bids should submit two separate envelopes, i.e. the technical & financial proposal for along with 2% bid security of the quoted amount of the total bid in the form of Pay Order / Demand Draft at the office of the Project Director Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kalkashan, Block 2, Clifton, Karachi Tel: +92-21-99251415-16, 021-99251416, 021-99251368 / Fax: +92-21-99251373, on or before Thursday May 12th 2016 at 03:00 PM. Further information / clarification may also be obtained from the same office.
  - The technical proposals submitted against the respective RFP will be opened by the Procurement Committee on same day, i.e. Thursday May 12th 2016 at 03:30 pm in the Committee room of the Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi. Tel: +92-21-99251368 / Fax: +92-21-99251373 in presence of all the bidders, or their representatives, who may choose to be present.
  - All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
  - Only bids offered on the prescribed tender forms issued in the bidding documents by the office of the Project Director ASR, Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, shall be accepted. However, additional sheets may be attached, if necessitated.
  - Conditional tenders / applications will not be entertained.
  - The Procuring agency may cancel the bidding process at any time prior to the acceptance of a bid or proposal under Rule 25 (1) of SPP Rules 2010.
  - The procuring agency shall announce the results of bid evaluation in the form of a report, giving justification for acceptance of a bid or proposal, subject to the relevant provisions of SPP RULES 2010.
  - This notice can also be seen in the website of SPPRA, i.e. [www.sppra.sindh.gov.pk](http://www.sppra.sindh.gov.pk) as well as in the website of Board of Revenue, Sindh, i.e. [www.bor.sindh.gov.pk](http://www.bor.sindh.gov.pk)
  - Please note that in case of any emergency situation posing a natural calamity or declaration of public holiday by the Government of Sindh, the bid submission and opening timelines would be extended to the next working date.

-sd/-  
Project Director  
Automation of Stamps & Registration  
Board of Revenue Government of Sindh  
ENR.ARY: 172736





BOARD OF REVENUE SINDH  
REFORMS WING & SPECIAL CELL

**NOTIFICATION**

Karachi, dated the 20<sup>th</sup> April, 2016

No.P.S/SMBR/BOR/274(i)/2016. A Procurement Committee for procurement of works and services is hereby notified under Rule 7 & 8 of the Sindh Public Procurement Rules 2010 for the tender namely "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT OF A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT" under the scheme "Automation of Stamps & Registration, Extension to All Districts" being executed by PMU, ASR, Board of Revenue, Sindh

- |  |                  |
|--|------------------|
| a. Member R&S, BOR   | Chairman         |
| b. Project Director (ASR), BOR                             | Member/Secretary |
| b. Representative of IS&T Deptt., Govt. of Sindh           | Member           |
| b. Representative of Industries Department, Govt. of Sindh | Member           |
| c. Deputy Director (F&A), ASR, PMU, BOR                    | Member           |
| d. Sr. System Analyst, ASR, PMU                            | Co-opted Member  |

**TERMS OF REFERENCES**

Procurement Committee shall be responsible for;

- (1) Preparing bidding documents;
- (2) Carrying out technical as well as financial evaluation of the bids;
- (3) Preparing evaluation report as provided in Rule 45;
- (4) Making recommendations for the award of contract to the competent authority;
- (5) Perform any other function ancillary and incidental to the above.

SECRETARY TO GOVERNMENT OF SINDH  
REVENUE DEPARTMENT

C.C. to:-

1. The Chief Secretary, Government of Sindh, Karachi.
2. The Additional Chief Secretary (Dev), P & D Department, Govt. of Sindh, Karachi.
3. The Secretary IS&T Department, Government of Sindh, Karachi.
4. The Secretary Industries Department, Government of Sindh, Karachi.
5. The Project Director ASR, Board of Revenue, Sindh
6. The P.S to SMBR. Board of Revenue, Sindh, Karachi.
7. The P.S to Member R&S, Board of Revenue Sindh, Karachi.

MEMBER R&S  
BOARD OF REVENUE SINDH





BOARD OF REVENUE SINDH

**NOTIFICATION**

Karachi, dated the 14 December, 2011

No.01-15-10-BOR/14 : In supersession of earlier notification of the Board of Revenue Sindh issued vide No: 05/10/BOR/219/2010 dated: 13-05-2010 **Complaint Redressal Committee** with the following composition is hereby constituted under **Rule 31 of the Sindh Public Procurement Rules, 2010** to address complaints, if any, in respect of procurement processes under the Schemes of Land Administration and Revenue Management Information System (LARMIS), Geo-database Information System (GIS) and Preservation of Land Records & Revamping of Survey & Settlement Directorate projects being executed by the PMU, R&S Wing Board of Revenue Sindh:

- |  |          |
|--|----------|
| 1. Senior Member, Board of Revenue Sindh                                       | Chairman |
| 2. Representative of Accountant General, Sindh                                 | Member   |
| 3. An independent Professional from relevant field<br>i.e. IT/ Law/ Industries | Member   |

**TERMS OF REFERENCES**

1. To determine whether there exists any inconsistency in the procurement process with SPPR Rules, 2010 and regulations;
2. To determine whether any unauthorized act or decision made by the Consultant Selection Committee;
3. To reverse any decision of the Consultant Selection Committee or substitute its own decision for such a decision;
4. The Complaint Redressal Committee shall announce its decision within seven (07) days w.e.f. date of reference to the Committee.

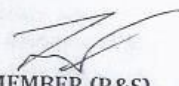
**SECRETARY TO GOVERNMENT OF SINDH**  
**REVENUE DEPARTMENT**

**C.C. to:-**

- The Accountant General Sindh, with a request to nominate a representative for the Committee;
- The Member R&S, Board of Revenue, Sindh;
- ✓ The Secretary, Board of Revenue, Sindh;
- \_\_\_\_\_ (Independent professional from relevant field).

**Copy for information to:**

- PS to Honourable Minister for Revenue & Relief, Sindh, Karachi.
- PS to Senior Member, Board of Revenue Sindh, Karachi

  
**MEMBER (R&S)**  
**BOARD OF REVENUE SINDH**





**REFORMS WING & SPECIAL CELL, BOARD OF REVENUE SINDH**  
**EXTRACT OF PROCUREMENT PLAN**

ADP SCHEME NAMEDLY "AUTOMATION OF STAMPS & REGISTRATION, EXTENSION TO ALL DISTRICTS OF SINDH PROVINCE"  
 FOR THE FINANCIAL YEAR 2015-2016

S. No.	Description of Procurement	Quantity (Where applicable)	Estimated Unit Cost (Where applicable) (Millions)	Funds allocated (Million)	Source of Funds (ADPs Non ADPs)	Proposed Procurement Method	Timing of Procurements				Remarks
							1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	
01	SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENTS ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT			Above 1 Million	ADP	Single Stage Two Envelope					Rule 46(2)

-/Sd  
 Member R&S  
 Board of Revenue, Sindh

CC:- • The Sindh Public Procurement Regulatory Authority, Govt. of Sindh, Karachi





April, 2016

**SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENTS  
ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT  
MANAGEMENT UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION  
DEPARTMENT UNDER THE SCHEME NAMEDLY "AUTOMATION OF STAMPS &  
REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH"**

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**PROJECT OF AUTOMATION OF STAMPS & REGISTRATION  
REFORMS WING & SPECIAL CELL  
BOARD OF REVENUE, GOVERNMENT OF SINDH**



## TABLE OF CONTENTS

Definitions.....	3
Invitation of Bid.....	4
General Terms & Conditions.....	6
Selection Criteria.....	9
Instructions for Responding Organizations.....	9
Basis of Evaluation and Comparison of Bid.....	10
Contacting the Purchaser.....	13
Purchaser's Right to Accept the Bid or Reject the Bid.....	14
Bill of Quantity.....	15
Bid Form.....	49
Bid Security Form.....	50
Performance Security Form.....	51
Technical Evaluation Forms.....	52



## Definitions

In this document, the following terms shall be interpreted as indicated hereunder:

“Bid” means a tender, or an offer by a person, consultant, firm, company or an organization expressing willingness to undertake a specified task at a price, in response to an invitation by a Procuring Agency.

“Bidding Documents” means all documents provided to the interested bidders to facilitate them in preparation of their bids in uniform manner.

“Bidding Process” means the procurement procedure under which sealed bids are invited, received, opened, examined and evaluated for the purpose of awarding a contract.

“Contract” means an agreement enforceable by law and includes General and Special Conditions, Specifications, Drawings and Bill of Quantities

“Contractor” means a person, firm, company or organization that undertakes to execute works including services related thereto, other than consulting services, incidental to or required for the contract being undertaken for the works;

“Government” means the Government of Sindh.

“Procuring Agency” means, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh.

“Supplier” means a person, firm, company or an organization that undertakes to supply goods and services related thereto, other than consulting services, required for the contract.

“Services” means any object of procurement other than goods or works, and includes consultancy services;

“Response Time” means, the period starting from the first date of issuance of bidding documents up to last date of issuance of bidding documents.”

“Lowest Evaluated Bid” means a bid most closely conforming to evaluation criteria and other conditions specified in the bidding document, having lowest evaluated cost;”



## INVITATION TO BID

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh (hereinafter referred to as Purchaser), invites sealed bids from eligible bidders for “SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENTS ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT, A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT” UNDER THE SCHEME NAMEDLY AUTOMATION OF STAMPS & REGISTRATION, 21 DISTRICTS EXTENSION TO ALL DISTRICTS IN SINDH”.

1. Tender Bids in sealed envelopes as per guidelines and information provided in this document are required. Interested bidders applying for bids should submit bids as per Single Stage Two Envelope Procedure of SPP Rules 2010. The interested bidder must have valid NTN, GST, PST registration certificates as a precondition for their eligibility for participation in the bidding process.
2. The bidder must quote for the complete desired specifications. The uncompleted bids will be rejected as non-responsive.
3. The bidder must bid for the complete packages. Bidding for individual items will be rejected as non-responsive.
4. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
5. Interested eligible bidders may obtain further information on the bid and collect the bidding documents from the office of Project Director Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kahkahan, Block-2, Clifton, Karachi, from **Wednesday 27<sup>th</sup> April 2016** during office Hours, i.e. from 9:00 am to 5:00 pm on payment of document fee of Rs. 2,000/- in the form of Pay order/Demand Draft in favour of Project Director Automation of Stamps & Registration, Board of Revenue, Sindh till **12:00 PM on Thursday May 12<sup>th</sup> 2016**. This bidding document can also be downloaded from the website of SPPRA or the website of the Board of Revenue Sindh, i.e. [www.borsindh.gov.pk](http://www.borsindh.gov.pk), in which case document fee required in the specified format may be submitted alongwith the bid. Only the bids submitted with the document fee or proof of payment thereof will be considered as eligible for participation in the bidding process.
6. All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of 'pay order', 'demand draft' or 'bank guarantee' in the name of Project Director Automation of Stamps & Registration, Board of Revenue, Sindh, and must be accompanied with the bid in a separate sealed envelope marked as "Earnest Money/Bid Security". Bid without earnest money/bid security of required amount and prescribed form shall be rejected.
7. Reforms Wing & Special Cell, Board of Revenue, Government of Sindh will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.

8. The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

9. The Procuring Agency shall have right of rejecting the tender as per Sindh Public Procurement Rules 2010.

10. All quoted prices must include all applicable taxes, such as General Sales Tax, Income Tax, Provincial Sales Tax and/or etc. If not specifically mentioned in the bid, then it will be presumed that the prices include all the taxes. Purchaser will not be responsible and would not pay any additional amount in case of changes in tax rate by the Government of Sindh or Government of Pakistan.

11. Rights and obligations of the procuring agency and the contractor shall be governed by General and Special conditions of contract signed between the procuring agency and the contractor.

12. Execution/installation of all components of the bid would be at locations specified in BoQ of this document.

13. The following shall result in blacklisting of suppliers, contractors, or contractors, individually or collectively as part of consortium:

- (a) conviction for fraud, corruption, criminal misappropriation, theft, forgery, bribery or any other criminal offence;
- (b) involvement in corrupt and fraudulent practices while obtaining or attempting to obtain a procurement contract;
- (c) final decision by a court or tribunal of competent jurisdiction that the contractor or supplier is guilty of tax evasion;
- (d) willful failure to perform in accordance with the terms of one or more than one contract;
- (e) failure to remedy underperforming contracts, as identified by the procuring agency, where underperforming is due to the fault of the contractor or supplier.

14. Failure to complete the contract within the stipulated time period will invoke penalty of 0.025% of the total cost per day. In addition to that, Performance Guarantee (CDR) amount will be forfeited and the company will not be allowed to participate in future tenders as well.

15. An interested bidder, who has obtained bidding documents, may request for clarification of contents of the bidding documents in writing, and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bids.

-sd/-

**Project Director**  
**Automation of Stamps & Registration**  
**Board of Revenue Sindh**



## General Terms & Conditions

- Bids not conforming to the terms, conditions and specifications stipulated in this document will be rejected.
- Project Management Unit, A.S.R Reforms Wing & Special Cell, Board of Revenue, Government of Sindh invites this tender under single stage - two envelope procedure, under SPPR 2010 as amended till date.
- Proposal after due date and time will not be accepted for any reason. Proposals must not be sent by Facsimile or e-mail. Such submissions will not be accepted for any reason.
- Bid/Proposal shall comprise the technical and financial proposal.
- The bidder must bid for the complete package. Bidding for individual items will be rejected as non-responsive.
- All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of this bidding document.
  - (i) **Bid Security & Performance Security**
    - All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of 'pay order', 'demand draft' or 'bank guarantee' in the name of Project Director Automation of Stamps & Registration, Board of Revenue, Sindh, and must be accompanied with the bid in a separate sealed envelope marked as "Earnest Money/Bid Security". Bid without earnest money/bid security of required amount in the prescribed form shall be rejected.
    - Bid security of the unsuccessful bidders will be released by PMU Automation of Stamps & Registration, Board of Revenue Sindh after award of work or after expiry of bid validity period whereas the bid security money of successful bidder will be released after the submission of performance security equivalent to 5% of contract price.
    - The performance security of the successful bidder will be released after issuance of successful completion certificate by the Project Management Unit Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh.
    - All/any terms and conditions not specified here shall be dealt with reference to SPPR Rules 2010 as amended till date.

**(ii) Validity of the proposal**

- All proposals and price shall remain valid for a period of 90 days from the closing date of the submission of the proposal. However, the responding organization is encouraged to state a longer period of validity for the proposal.

**(iii) Currency**

- All currency in the proposal shall be quoted in Pakistani Rupees (PKR). The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

**(iv) Withholding Tax, Sales Tax and other Taxes**

- The responding organization is hereby informed that the Government shall deduct tax at the rate prescribed under the Tax laws of Pakistan, from all payments for supplies and services rendered by any responding organization who signs a contract with the Government. The responding organization will be responsible for all taxes on transactions and/or income, which may be levied by Government. If responding organization is exempted from any specific taxes, then it is requested to provide the relevant documents with the proposal.

**(v) Compliance to Specifications**

- The Responding Organization (RO) to provide information as per (Compliance sheet). RO may not propose any kind of refurbished equipment / Hardware / components in their technical proposals.

**(vi) Financial Capabilities**

- The RO(s) shall describe the financial position of its organization. Income Statement or Report should be included in the detailed Technical proposal.

**(vii) Penalty Clause**

- It is of utmost importance that schedule to tender should be filled in very carefully and the instructions set forth above, scrupulously complied with failing which the offer will be ignored. In case of non-completion of supplies and services within stipulated period Earnest Money will be forfeited in favor of the Project Management Unit, A.S.R Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, Karachi. Besides liquidated damages of 0.025% per day of the contract price per day will be deducted for delayed delivery of goods and services.





**The technical offer must be submitted (in duplicate) with the following documents**

1. Company Profile with complete address, telephone No. Fax. No. and e-mail address and contact person.
2. Evidence of Relevant experience.
3. Affidavit that the firm is not blacklisted;
4. Document Fee and Bid Security of the specified form and amount as per the Tender Document in a sealed envelope.
5. Bid must be signed, named and stamped by the authorized person of the firm along with authorization letter
6. Authenticated Financial Statements of last three years should also be submitted with Technical Proposals
7. Valid NTN, GST, PST, Professional Tax and any other valid Tax Registration Certificate required by law in force.
8. In case of joint venture, names, company profiles, NTN, GST, PST Registration Certificates and authorization letter of the JV Partner on Stamp Paper of the prescribed denomination to bid on its behalf duly attested by the authorized Oath Commissioner / Notary Public shall be required.
9. Drawings and brochures of the products offered with specification compliance sheet of each.
10. Complete schedule of supply & installation is to be provided.
11. Ability to provide after sales support.
12. A comparative sheet may be attached in the format indicating compliance of essential tender requirements in the format given below:

Sr. No	Tender Requirement	Compliance	Non- Compliance
1.	Bid submitted in prescribed format with required technical documents		
2.	Bid for complete package		
3.	Items specification compliance		
4.	Delivery schedule compliance		
5.	Support & Maintenance compliance		
6.	Technical skills compliance		

### **Selection Criteria**

Single stage two-envelope procedure under SPP Rules 2010 as amended till date, will be used for the final selection of the vendor for the supply, & installation of the IT hardware and Electronic Equipments. Bid / Proposal shall comprise one single envelope containing the technical & financial proposals separately sealed and required information mentioned in General Terms & Conditions. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

### **Instructions for Responding Organizations**

#### **Communication**

Enquiries regarding this tender document shall be submitted in writing/email to:  
Project Director, Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh.

#### **Mode of Delivery and Address**

Proposals should be submitted on or before **12<sup>th</sup> May 2016 at 03:00 PM** at the address given below:

*Project Director, Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh,*

*C-73, Kehkashan, Clifton, Block-2, Karachi.*

*Tel: +92-21-99251415-6*

*Fax:+92-21-35291752*

Proposals shall be delivered by hand or courier so as to reach the address given above by the last date indicated for submission. **PROPOSALS RECEIVED BY FAX OR EMAIL SHALL NOT BE ACCEPTED.**

#### **Submission of Proposal**

The bidder must bid for the complete package. Bidding for individual items from the package will be rejected as non-responsive. Proposals can be submitted on or before **12<sup>th</sup> May at 03:00 PM** at the office of Project Director, Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kehkashan, Block-2, Clifton, Karachi, Tel: +92-21-99251415-6, Fax: +92-21-35291752. Bid / Proposal shall comprise one single envelope containing the technical & financial proposals sealed and required information mentioned in General Terms & Conditions.

The Bank Draft for Bid Bond to be enclosed in a separate envelope, labeled as "Bank Draft/Earnest Money (Bid Bond)", and which should be sealed. Proof of Sales Tax and NTN numbers should also be provided. (Please provide photocopies of all relevant documents).



### **Opening of Proposals**

The technical proposal submitted against the subject tender document will be opened by the Procurement Committee of PMU, ASR Board of Revenue, Sindh on **12<sup>th</sup> May 2016 at 03:30 PM** in the Committee room of PMU, ASR Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, C-73, Kehkashan, Block-2, Clifton, Karachi, in presence of all the bidders, or their representatives, who may choose to be present.

### **Evaluation and Comparison of Technical and Financial Bids**

Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned in General Terms & Conditions. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

### **Mandatory Clause**

The Bidders must comply with the following mandatory requirements:

- The Bidder must be registered under the Companies Ordinance 1984;
- The Bidders must be registered with Federal Board of Revenue (FBR) for Income Tax and Sales Tax.
- The Bidders must be registered with Sindh Revenue Board (SRB) for Provincial Sales Tax and must be on SRB's Active Taxpayers List.
- The Bidders must be able to demonstrate that they have expertise in performing the tasks enlisted under scope of work.
- Bidders may submit bids as a Joint Venture but in such case one bidder shall be appointed as a lead bidder who shall be solely responsible for end to end delivery of the entire project.
- Bidders or any of its consortium partners must not have been black listed or declared bankrupt by any Government or Financial institution.
- Bidders NOT complying with any of the above eligibility pre-requisites would be disqualified. All documentary evidence must be submitted along with the bids; no document will be acceptable after bid submission.
- The Bidder individual or consortium as collectively must be partner of principle for IT Equipment listed at Sr# 1 to 5 of Package A, Sr# 1 to 16 & 19 to 21 of Package B and Sr# 4 & 6 to 9 of Package C of the BoQ.

### **Basis of Evaluation and Comparison of Bid**

The financial bid of only those bidders will be opened who meet the mandatory requirements and qualify the following evaluation criteria against the tender. The financial bid of disqualified/non-compliant bidders will be returned unopened.

S.No.	Criteria	Max. Marks	Marks obtained
<b>A</b>	<b>COMPANY PROFILE</b>	<b>200</b>	
1	Years in relevant Business. a. 10 years or more = 100 Marks b. More than 5 years but less than 10 years = 50 Marks (Attach Certificate of Incorporation)	100	
2	The firm must have at least 10 IT Employees/Staff on company's permanent payroll in relevant category for last One (01) year. a. More than 20 employees = 100 marks b. More than 10 but less than 20 = 50 marks c. No marks for less than 10 IT Employees/Staff  (Attach Authenticated Company's Payroll, CV and Degrees of Employees)	100	
<b>B</b>	<b>EXPERIENCE</b>	<b>400</b>	
1	<b><u>SPECIFIC EXPERIENCE</u></b> Completed at least 3 projects including Supply, Installation and Support of IT Equipments. No marks for less than 3 projects.  (Attach Successful Completion Certificate)	200	
2	<b><u>GENERAL EXPERIENCE</u></b> Completed at least 03 Projects having worth Rs. 25 Million or Above (40 marks for each Project to the maximum of 200 marks). No marks for less than 3 projects.  (Attach Successful Completion Certificate)	200	
<b>C</b>	<b><u>QUALITY</u></b>	<b>200</b>	
1	ISO 9001:2008 Certified or equivalent credentials  (Attach Valid Certificate)	100	
2	<b>Technical/Management credentials:</b> a. 1 x Project Management Professional (PMP) = 20 Marks b. 2 x Network Engineer (CCNA & CCNP) = 30 Marks (15 Marks for each) c. 2 x System Engineer (MCSE & MCP) = 30 Marks (15 marks for each) d. 2 x Hardware Engineer (A+ or Equivalent) = 20 Marks (10 marks for each)	100	



S.No.	Criteria	Max. Marks	Marks obtained
	(Attach Authenticated Company's Payroll, CV and Valid Certificates of Employees)		
<b>D</b>	<b>FINANCIAL CAPABILITY</b>	<b>200</b>	
1	Average turnover in relevant IT Business during last 3 Years: a. More than Rs. 30 Million but less than Rs. 50 Million = 100 Marks b. Rs. 50 Million or above = 200 Marks c. No marks will be given below Average Turnover of Rs. 30 Million during the specified period.  (Attach Audited Financial Statements)		
<b>Total:</b>		<b>1000</b>	
<b>Passing Marks:</b>		<b>750</b>	

#### Preliminary Evaluation Checklist

Bidders are required to furnish relevant information required in the evaluation criteria in the prescribed Technical Evaluation Forms provided in the document

#### Information Required

##### a) General

- 1 Name of Bidder consortium going into bid.
- 2 Number of Years in business in Pakistan
- 3 Number of Offices locations in Pakistan
- 4 Annual Turnover (Million Rs.)
- 5 Value of projects in hand (details may be given)
- 6 Year of Incorporation
- 7 Status of the Bidder
  - Sole Proprietor
  - Partnership Firm
  - Private Limited Company
  - Public Limited Company
  - Entity registered / incorporated outside Pakistan (Give details)
  - Other (Please specify)
- 8 Names of Owner / Partners / Chief Executive / Directors
- 9 Details of Registered Head Office (Address, Phone, Facsimile, Email and Website information)

##### b) Details of total staff employed

- 1 Number of permanent staff employed: Technical /Managerial
- 2 Cumulative Experience (in years)
- 3 Details of Staff assigned for the proposed project.

**c) Joint Ventures**

Bids submitted by a joint venture of two or more companies or partners shall comply with the following requirements:

- a) The Bid, and in case of successful Bid, the Contract form, shall be signed by the lead bidder duly nominated by all the JV partners;
- b) One of the consortium partners shall be authorized to be Incharge; and this authority shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners;
- c) The lead bidder shall be authorized to incur liabilities, receive payments and receive instructions for and on behalf of any or all partners of the joint venture;
- d) all partners of the joint venture shall be liable jointly and severally for executing the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under (b) above as well as in the Bid Form and the Form of Agreement (in case of a successful Bid); and
- e) The JV Agreement for this project entered into by the joint venture partners on stamp paper duly attested by Notary Public shall be submitted with the Bid.

**Special Instructions**

- Incomplete applications will not be considered.
- Any firm, which furnishes wrong information, will be liable for legal proceeding and if any contract is awarded, the same will be cancelled.
- Board of Revenue reserves the right to accept or reject any or all proposals without assigning any reason thereof.
- The financial bid must be filled in prescribed form without any alteration/over writing.
- Conditional tenders/bids will not be acceptable.
- Board of Revenue reserves the right to increase or decrease the scope of work / number of items without assigning any reason under relevant provisions of SPPRA Rules 2010.
- Only companies registered with Sales Tax, Income Tax & Sindh Revenue Board Departments shall be eligible to participate in the tender (proof of registration is required).
- Every page of this tender document should be signed and sealed by the bidder.

**Contacting the Purchaser**

Any effort by a bidder to influence the Purchaser in the Purchaser's decisions in respect of bid evaluation or Contract award will result in the rejection of the bidder's bid.



**Purchaser's Right to Accept the Bid or Reject the Bid**

The Purchaser reserves the right to accept or reject the bid and to annul the bidding process at any time prior to award of Contract, without thereby incurring any liability to the bidder or any obligation to inform the bidder of the grounds for the Purchaser's action as per SPP Rules, 2010.

**Scope of Work**

Reforms Wing & Special Cell under its approved Project of Automation of Stamps & Registration, 21 Districts, extension to all Districts in Sindh is actively engaged in capacity building of Board of Revenue, Government of Sindh through number of project components, aimed at developing the standards and systems of Information & Communication Technology at the international industry levels.

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, under the said approved Project of Automation of Stamps & Registration, 21 Districts, extension to all Districts in Sindh invites tender through National Competitive Bidding.

Contractor shall also be responsible to supply, install and commission the IT Equipment, Hardware and Electronic Equipment at the PMU A.S.R and allied facilities of Registration & Stamps Department under the scheme Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh and it's allied Scanning Units located at Karachi, Hyderabad, Shaheed Benazirabad, Larkana, Sukkur and Mirpurkhas.

Vendor would be responsible to supply, install and commission the BOQ items with utmost care and for safe custody of the same till completion of the assignment. Penalty would be imposed on vendor to makeup the loss; in case of finding carelessness in equipment handling and misuse of the provided equipment.

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh through its Project of Automation of Stamps & Registration has right to terminate the contract if vendor will fail in providing satisfactory services in given scheduled time. In addition to that, Performance Security amount will also be forfeited.

Any unforeseen requirement for the implementation and maintenance of the project would be core responsibility of vendor.

SLA or any services agreement, if required, will be signed after implementation according to the satisfactory progress of the vendor and as per criteria of PMU Automation of Stamps & Registration, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh.

## BILL OF QUANTITY

### ALONGWITH DETAILED TECHNICAL SPECIFICATION

**Package "A" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for Data Center @ Revenue House, Karachi)**

Sr.#	Item	Description	Qty
1	Converge / Unified Storage	<p>Offered Storage array shall be a true converge / unified storage with a single Microcode / operating system instead of running different Microcode / Operating system / Controllers for File, block and object services respectively. Offered Storage array shall be end-to end 12Gbps enabled which means that both Front-end Fiber channel ports and Back-end engines shall be operated at minimum 12Gbps speed.</p> <p>Operating System &amp; Clustering Support: The storage array should support industry-leading Operating System platforms including: Windows Server 2008, Windows 2012, Vmware, Sun Solaris, HP-UX, IBM-AIX and Linux.</p> <p>Capacity &amp; Scalability: The Storage Array shall be offered with 200 TB Capacity with following tiers.</p> <p>The Storage Array shall be offered with 250 TB or higher Capacity with following tiers.</p> <p>Tier 0: SSD 5% useable capacity with Raid 5</p> <p>Tier 1: SAS 40% useable capacity with Raid 5</p> <p>Tier 2: NL-SAS 55% useable capacity with Raid 6</p> <p>2. Storage model shall be scalable up to 570 drives or higher.</p> <p>Cache: Offered Storage Array shall be given with Minimum of 64GB cache in a single unit of dual controller and shall be scalable to 128GB cache with 4 controllers. Cache shall be used only for Data and Control information. OS overhead shall not be done inside cache. Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache. Minimum of 1TB Flash cache shall be supported. If Flash cache is not supported inside the storage array then vendor shall ensure that offered storage array shall be scalable to minimum of 256GB DRAM cache without any replacement or upgrade of controllers.</p> <p>Processing Power: Offered Storage architecture shall be based on purpose built ASIC, XOR engine so that there shall be no load on the storage CPU during Raid Parity</p>	1 Solution





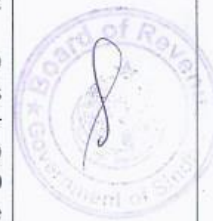
Sr.#	Item	Description	Qty
		<p>calculations.</p> <p>In case vendor doesn't have above ASIC functionality then additional 16GB read and write cache shall be provided per controller pair to balance the performance.</p> <p>Architecture &amp; Processing Power: Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.</p> <p>No Single point of Failure: Offered Storage Array shall be configured in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.</p> <p>Disk Drive Support: Offered Storage Array shall support dual-ported 300 / 600 / 1200 /1800GB hot-pluggable Enterprise SAS hard drives, Minimum of 400GB SSD Drives along with near line SAS 2TB / 4TB / 6TB drives.</p> <p>Raid Support &amp; Virtualization: Offered Storage Subsystem shall support Raid 0, 1, 1+0, 5 and Raid 6. Offered storage array shall have native virtualization support so that Raid 1, Raid 5, Raid 1+0, Raid 6 can be carved out from a logical space instead of dedicating separate physical disks for each application. Every supplied disk shall be able to participate into multiple and different raid sets simultaneously. In case vendor doesn't have above functionality, then 20% additional raw capacity shall be provided for each type of disk to balance out the capacity utilization.</p> <p>Data Protection: In case of Power failure, Storage array shall have de-stage feature to avoid any data loss.</p> <p>Protocols: Offered Storage array shall support all well-known protocols like FC, ISCSI, FCOE, SMB 3.0, NFS V4, NDMP etc.</p> <p>Host Ports and Back-end Ports: Offered Storage shall have minimum of 4 host ports for connectivity to servers running at 16Gbps speed and shall be scalable to 8 host ports. Offered Storage shall also support:</p> <ul style="list-style-type: none"> <li>a. Additional Quad number of 10Gbps ISCSI / FCOE ports.</li> <li>b. Along with ISCSI / FCOE ports, additional Quad number of 10Gbps IP ports or eight numbers of 1Gbps IP ports for File services operations. Offered storage shall have two additional IP ports for the storage based replication.</li> </ul> <p>Offered storage shall have minimum of 16 SAS lanes</p>	

Sr.#	Item	Description	Qty
		<p>running at 12Gbps speed and shall be scalable to 32 SAS lanes without any controller change.</p> <p>Global Hot Spare: offered Storage Array shall support distributed Global hot Spare for offered Disk drives. Global hot spare shall be configure as per industry practice.</p> <p>Performance and Quality of Service: Shall have capability to use more than 30 drives per array group or raid group for better performance. Storage shall be provided with Performance Management Software. Offered storage array shall support quality of service for critical applications so that appropriate and required response time can be defined for application logical units at storage. It shall be possible to define different service / response time for different application logical units. Quality of service engine shall allow to define minimum and maximum cap for required IOPS / bandwidth for a given logical units of application running at storage array. It shall be possible to change the quality of service Response time (In both milliseconds as well as Sub-milliseconds), IOPS, bandwidth specification on basis of real time.</p> <p>Thin Provisioning and Space Reclaim: Offered storage array shall be supplied with Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity. Thin Re-claim (Zero Page reclaim) inside storage subsystem shall be automatic in nature and there shall be no need to run any utility inside storage for same. Thin Re-claim inside storage shall not cause any overloading of Storage CPU and shall be able to claim the Zero pages even during peak load without any performance impact. For effective capacity utilization, thin reclaim maximum unit shall be 16KB. Vendor shall provide the documentary proof for same. Offered storage array shall be tightly integrated with VMware so that Eager zero disks layout can be used with thin provisioning and thin re-claim.</p> <p>Maintenance: Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives.</p> <p>Snapshot / Point in time copy / Clone: Offered Storage shall have support to make the snapshot and full copy (Clone) on the thin volumes if original volume is created on thick or vice-versa. The storage array should have support for both controller-based as well as file system based snapshots functionality (At-least 1024 copies for a</p>	



Sr.#	Item	Description	Qty
		<p>given volume or a file store). Storage array shall have functionality to re-claim the space from Thin Provisioned Deleted snapshot automatically. Vendors shall provision at-least 20% additional space over and above the actual requirements, if space re-claim from thin provisioned deleted snapshot is not possible automatically. Storage Array Configuration &amp; Management Software: Vendor shall provide Storage Array configuration and Management software. Software shall be able to manage more than one array of same family. Storage Tiering: Offered storage shall support dynamic migration of Volume from one Raid set to another set while keeping the application online. For effective data tiering, Storage subsystem shall support automatically Policy based Sub-Lun Data Migration from one Set of drive Tier to another set of drive tier. Remote Replication: The storage array should support hardware based data replication at the array controller level across all models of the offered family. The Storage array shall also support three ways (3 Data Centers) replication to ensure zero RPO in native fashion without using any additional replication appliance. Replication shall support incremental replication after resumption from Link Failure or fallback situations. Storage solution should include Replication licenses.</p>	
2	SAN Switch	<p>Non-blocking architecture with minimum of 8 ports and scalable up to 24 ports in a single domain concurrently active at 8 Gbit/sec full duplex with no oversubscription. Minimum Dual switches shall be offered. The switch should support auto-sensing 1, 2, 4, and 8 Gbit/sec capabilities. The switch shall support different port types such as FL_Port, F_Port, M_Port (Mirror Port), and E_Port; self-discovery based on switch type (U_Port); optional port type control in Access Gateway mode: F_Port and NPIV-enabled N_Port. The switch should be rack mountable. Non disruptive Microcode/ firmware Upgrades and hot code activation. The switch shall provide Aggregate bandwidth of 192 Gbit/sec: 24 ports × 8 Gbit/sec (data rate) end to end. Shall have optional support for Adaptive Networking services such as Quality of Service (QoS) to help optimize application performance in consolidated, virtual environments. It should be possible to define high, medium and low priority QOS zones to expedite high priority traffic. SAN switch shall</p>	01 Each

Sr.#	Item	Description	Qty
		<p>have support to restrict data flow from less critical hosts at preset bandwidths. The Switch should be configured with the Zoning and shall also support ISL trunking when more than 2 switches are configured in a single fabric. The switch shall be able to support ISL trunk up to 64 Gbit/sec between a pair of switches for optimal bandwidth utilization and load balancing. Exchange-based load balancing across ISLs should be supported with Dynamic Path Selection included in Switch OS</p> <p>SAN switch shall have support to isolate the high bandwidth data flows traffic to specific ISLs. Switch shall support to measure the top bandwidth-consuming traffic in real time for a specific physical or virtual device, or end to end across the fabric. Support for web based management and should also support CLI. The switch shall support advanced zoning and ACL to simplify administration and significantly increase control over data access. Offered Switch shall have support to configure the switches with alerts based on threshold values for temperature, fan status, Power supply status, port status. Switch shall support POST and online/offline diagnostics, including RAStrace logging, environmental monitoring, non-disruptive daemon restart, FCping and Path info (FC trace route), port mirroring (SPAN port).The switch should have USB port for firmware download, support save, and configuration upload/download. Offered SAN switches shall be highly efficient in power consumption. Bidder shall ensure that each offered SAN switch shall consume less than 60 Watt of power.</p>	
3	Server for Storage	<p>Supply &amp; Installation of 2U Rack server having 2 x E5-2630v3 or higher processor, with Intel® C610 Series Chipset, with 64GB scalable to at least up to 768GB, using DDR4 Load Reduced DIMM (LRDIMM) memory modules Advanced ECC with multi-bit error protection and memory online spare mode, 2 x 300GB 12G SAS 10K 2.5in, 2 x 300GB 12G SAS 15K 2.5in Support up to Up to 24+2 SFF/12+3 LFF max, HDD/SSD.</p> <p>With DVD-RW, Server should support one of below RAID controller without consuming PCIe slot Embedded 6Gb/s SATA controller RAID controller with RAID 0/1/10/5 or PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB battery backed write</p>	2 Each



Sr.#	Item	Description	Qty
		<p>cache (onboard or in a PCI Express slot), Server should support networking cards with below features: 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as Vmware NetQueue and Microsoft VMQ. 10Gb 2-port Ethernet adaptor supporting enterprise class features such as VLAN tagging, adaptive interrupt coalescing, MSI-X, NIC teaming (bonding), Receive Side Scaling (RSS), jumbo frames, PXE boot and virtualization features such as Vmware NetQueue and Microsoft VMQ. 10Gb 2-port Adapter providing Ethernet and iSCSI or Fibre Channel Over Ethernet (FcoE) connectivity using Converged Enhanced Ethernet (CEE) standards. This adaptor should support Hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine (TOE), Fibre Channel over Ethernet (FcoE), Jumbo frames and iSCSI. 10Gb 2-port provide up to 40Gb bi-directional bandwidth, Converges FcoE or RoCE with LAN traffic on a single 10 GbE wire, Tunnel Offload support for VXLAN and NVGRE, RDMA over Converged Ethernet (RoCE)</p> <p>Should have Interface Serial – 1, Micro SD slot – 1, USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p> <p>Bus Slot Requirement: Six PCI-Express 3.0 slots, at least two x16 and four x8 slots, Redundant platinum Power Supplies, Redundant hot-plug system fans, Integrated Matrox G200eH2 video standard with 16MB of Video RAM,</p> <p>Server Management: The Systems Management software should provide Role-based security, Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts, Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a Personalized dashboard to monitor device health, hardware events, and</p>	

Sr.#	Item	Description	Qty
		contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location – console based) or off premise (using internet), Should support scheduled execution of OS commands, batch files, scripts, and command line apps on remote nodes, Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components, The Server Management Software should be of the same brand as of the server supplier, Solution available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management, Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV with Windows Server 2012 Standard License	
4	Upgrade of Existing HP 3 Par SAN	HP M6720 LFF(3.5in) SAS FldIntDrvEncl x 7, HP M6720 2TB 6G SAS 7.2K 3.5in NL HDD x 168, HP 3PAR 7000 Drives over 1TB Support x 168, HP 3PAR 7000 Drive Enclosure Support x 7, HPE Startup 3PAR 7000 4U SAS Enclosr SVC x 7, HP Proactive Select Credit SVC, HP 3PAR 7200 Replication Suite Drive LTU x 48	
3.	Server	Supply and Installation of Server having Processor: 2 X E5-2623v3 Processors FIO Kit, Intel® C610 Series Chipset, RAM: 8 X 16 GB 2Rx4 PC4-2133P-R Kit RAM (128 GB), 1 X Universal Media Bay Kit, HDD: 5 X 900GB 6G SAS 10K 2.5in SC ENT HDD (5 HDD Per Server), 1 X 9.5mm SATA DVD-ROM Kit, 1 X 12Gb 2-ports SAS Array Controller, 1 X 8Gb 2-port PCIe FC HBA, 1 X 1.83m 10A C13 CN Power Cord, 1 X 2U Security Bezel Kit, 1 X 2U SFF Easy Install Rail Kit, RPS 500W FS Plat Hot, Plug Power Supply Kit & Redundant FANS and Microsoft Windows Server Standard 2012 R2 Licensed.	3
4.	Database Server License	Supply and Installation of Microsoft SQL Enterprise Edition 2014 for 4 Cores.	3
5.	Application Server License	Supply and Installation of Microsoft Visual Studio Professional Edition 2013 and .NET Framework.	1



Sr.#	Item	Description	Qty
6.	Basecamp Enterprise version license	Supply and Installation of Basecamp Enterprise version with the following features. Ability to manage more than 50 users, groups, chat, emails, To-Dos, Message Board, Schedules, Latest activity on project timeline and Reports with 2 Terabytes file storage.	1 Solution
7.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 6.	1 Job

**Package "B" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for ASR Head Office Building)**

Sr.#	Item	Description	Qty
1.	Server	Supply and Installation of Server having Processor: 2 X E5-2623v3 Processors FIO Kit, Intel® C610 Series Chipset, RAM: 8 X 16GB 2Rx4 PC4-2133P-R Kit RAM (128 GB), 1 X Universal Media Bay Kit, HDD: 5 X 900GB 6G SAS 10K 2.5in SC ENT HDD (5 HDD Per Server), 1 X 9.5mm SATA DVD-ROM Kit, 1 X 12Gb 2-ports SAS Array Controller, 1 X 8Gb 2-port PCIe FC HBA, 1 X 1.83m 10A C13 CN Power Cord, 1 X 2U Security Bezel Kit, 1 X 2U SFF Easy Install Rail Kit, RPS 500W FS Plat Hot, Plug Power Supply Kit & Redundant FANS and Microsoft Windows Server Standard 2012 R2 Licensing.	3
2.	Communication Rack	Supply and Installation of Communication Rack having Rack Size: 2000 mm (42U) x 600 mm x 1200 mm, Useable U space: 29U Air Flow Management Panel: 5U x 4, 2U x 3, 1U x 3, total 29U, Maximum depth of equipment: 1023 mm, Vertical Cable Management Panel: 2, Area: 0.6m x 1.2m = 0.72 m <sup>2</sup> , Color: Black, IP Marking: IP5X, Display Panel: 7" Touch Panel LCD, LED Lighting: 2, System Luminance: 88lux/1M, UPS Capacity: 5,000VA / 4,500W, System Input Breaker: 80A (Single Phase), System Frequency: 50Hz or 60Hz (2 different models), Power Distribution Units (PDU) 32A input Switched PDU, 18x C13 + 6x C19, Lightning Protection / Surge Suppression: Level 3 & 20KA, Maintenance Bypass: Included, Cooling Capacity: 900W ~ 3,000W & Variable Speed, Refrigerant: R410A, Emergency Fan: Two, one at front bottom and one at rear top, System Management (UPS/ Cooling/PDU): Yes, Temperature Sensor 2, Water Leak Detection: 1 piece & 5 meters long and Door Access Sensor: 2.	2
3.	Router	Supply and Installation of Router having DRAM: Upto 256 MB,	1

Sr.#	Item	Description	Qty
		Onboard LAN Ports: 2-10/100/1000, Network-Module Slot: 1 Slot, supports NM, NME and NME-X type modules, Extension Voice Module Slot: 1, PVDM (DSP) Slots on Motherboard: 3, Rack Mounting: Included, IOS: Support upto IP Level and Part replacement should be on Next Working Day.	
4.	Firewall	Supply and Installation of Firewall having Memory: 4 GB, System Flash: 4 GB, Stateful Inspection Throughput: 1 Gbps, Stateful Inspection Throughput (Multiprotocol): 500 Mbps, IPS Throughput: 250 Mbps, Users or Node: Unlimited, IPsec VPN peers: 250, Concurrent Connections: 100,000, Expansion Slot: 1 Interface Card, User-accessible Flash Slot: No, USB 2.0 ports: 2, Integrated I/O: 6 Gigabit Ethernet (GE) copper, Dedicated Management Port: Yes (1 GE), Serial Ports: 1 RJ-45 console and Part replacement should be on Next Working Day.	1
5.	Core Switch	Supply and Installation of Multilayer Switch having Ethernet Port: 24 10/100/1000 Ports, SFP-based Gigabit Ethernet Ports: 4, Performance: 32-Gbps Switching Fabric, Flash Memory: 32 MB, DRAM Memory: 128 MB, Rack Mounting: Included, Enterprise-class Intelligent Services delivered to the Network Edge, IOS: Support IP Level IOS and Part replacement should be on Next Working Day.	1
6.	Access Switch	Supply and Installation of Access Switch having Ethernet Port: 24 10/100/1000 ports, 4 of which are dual-purpose (10/100/1000 or SFP), Switching Bandwidth: upto 32 Gbps, Flash Memory: 32 MB, DRAM Memory: 64 MB, Rack Mounting: Included and IOS: Support LAN Level IOS and Part replacement should be on Next Working Day.	2
7.	Wireless Controller	Supply and Installation of Wireless LAN Controller should supports upto 75 access points and upto 1000 clients, Ease of Deployment: Quick and easy deployment Access Points can be connected directly to Wireless LAN Controller via two PoE (Power over Ethernet) ports, High Performance: Wired-network speed and non blocking performance for 802.11n and 802.11ac networks which supports up to 1 Gbps throughput, Rack Mounting: Yes, should include all allied software's and Part replacement should be on Next Working Day.	1
8.	Wireless Access Point	Supply and Installation of Access Point controller based should support 3x3 MIMO with two spatial streams, Maximal ratio combining (MRC), 802.11n and 802.11a/g beamforming, 20- and 40-MHz channels, PHY data rates up to 300 Mbps (40 MHz with 5 GHz), Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx), 802.11 Dynamic Frequency Selection (DFS), Cyclic shift diversity (CSD) support and Part replacement should be on Next Working	10



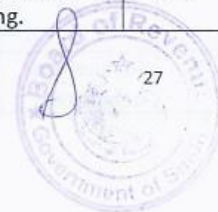
Sr.#	Item	Description	Qty
		Day.	
9.	Color Laser Printer	Supply and Installation of Color Laser Printer having Print speed black: Upto 35 ppm, Print speed color: Upto 35 ppm, First Page Out: Black: As fast as 9.5 sec & Color: As fast as 9.5 sec 6 Print quality black: Upto 1200 x 1200 dpi, Print quality color: Upto 1200 x 1200 dpi, Duty cycle (monthly, A4): Upto 100,000 pages, Print technology: Laser Processor speed: upto 800 MHz, Duplex Printing: Yes, Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.	3
10.	Black Laser Printer	Supply and Installation of Black Laser Printer having Print speed black: Upto 35 ppm, Printer Resolution: Upto 1200 x 1200 dpi, First Page Out: As fast as 8 sec Duty Cycle: Upto 50,000 pages, Duplex Printing: Yes, Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.	10
11.	Scanner	Supply and Installation of Scanner having Scanner Type: Flatbed, Scan Technology: Charge Coupled Device (CCD), Scan Resolution: 4800 x 9600 dpi, 48-bit, 256 grayscale levels, Scan Speed Preview Mode: Upto 11 sec, Scan Media Types: Paper (inkjet, laser, plain), photographic material (silver halide, pigment-dye), 3-D objects, 35 mm slides and negatives (using transparent media adapter), Maximum scan size: 8.5 x 11.7 in and Enlargement Range:10 to 2400% in 1% increments	3
12.	Photocopier	Supply and Installation of Photocopier having Type: Desktop (Reader Combined + Inner Output), Feeding Method: Duplex Automatic Document Feeder, Imaging System: Laser Dry Electrostatic Transfer System, Memory: upto 256MB, Network Interface: Ethernet (100Base-TX / 10Base-T), Warm Up Time: 30 seconds maximum after powering ON & 1 second maximum from the Sleep mode, First Copy Output Time: 3.9 seconds or less, Multiple Copies: 1 to 999 sheets, Magnification: 25% to 400% (1% increment), Maximum Original Size: Max. A3 / 11" x 17", Duplex: Standard, Copy / Print Speed: 45 ppm, Resolution: (Reading) 600 x 600dpi & (Writing)1200 x 1200dpi, Paper Sources (80gsm): Paper Cassette: Standard: 2 x 550 sheets paper capacity & Maximum:4 x 550 sheets paper capacity and Stack Bypass: Standard: 100 sheets paper capacity.	2
13.	Color Photocopier	Supply and Installation of Photocopier having Type: Color Laser Multifunctional Device (Reader / Printer Desktop), CPU: 1.66 Ghz, Memory: 2 GB, Hard Disk Drive: 250 GB, Network Interface: Ethernet 1000Base-T / 100Base-TX / 10Base-T - (RJ-45), Resolution: Scan 600 x 600 dpi, Copy 600 x 600 dpi & Print 1200 x	1

Sr.#	Item	Description	Qty
		1200 dpi, Copy/Print Speed: A4 30 / 30 ppm & A3 15 / 15 ppm, Multiple Copies/Print: 1 to 999 copies, Magnification: Copy Ratio 25 – 400%, First Copy Time: Full Color 8.2 Sec & Mono Chrome 5.8 Sec, Warm-up Time: 34 sec and PDL: UFR II (Standard).	
14.	Fax Machine	Supply and Installation of Fax Machine having Printer Type: Monochrome Laser, CPU: Upto Processor 133 MHz, Memory: 64 MB, Standard Interface: USB 2.0 High Speed, Print Speed: Upto 19 ppm (Letter), First Print Time: 7.8secs. (A4) and 7.7secs. (LTR), Print Resolution: Up to 600 x 600dpi 1200 (equivalent) x 600dpi, Print Memory: 64 MB (Shared), Standard Paper Source: 150-Sheet Cassette, Fax Modem Speed: Upto 33.6 Kbps, Fax Resolution: Upto 200 x 400 dpi (super fine), Compression Modes: MH, MR, MMR and Memory Capacity: Upto 512 pages.	2
15.	Laptop	Supply and Installation of Laptop having Processor: Ci7 5500U 2.4 Ghz Turbo upto 3.0 Ghz, Chipset: Mobile Intel® HM76 Express, Memory DDR3L SDRAM: 8 GB, Internal Storage: 1TB 5400 rpm, Removable Storage: DVD RW, Display: 15.6" HD BV, FINGER PRINT, BACKLIT K/B, WEBCAM, MS Win 8.1 Pro License and Good Quality Carry Case.	8
16.	Personal Computer	Supply and Installation of PC having Processor: Intel® Core™ i7 – 4790 Processor, Processor Speed: Up to 4.0 GHz Max Turbo Frequency (3.6 GHz base frequency) 8 MB cache – 4 cores – 8 threads, Chipset: Intel® Q87 Express chipset Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP), Memory: 8 GB DDR3 (2 x 4 GB) RAM, Hard Disk Drive: 1 TB 7200RPM SATA-6G HDD, Optical Drive: DVDRW Drive, Display: 18.5" LED LCD Screen, Graphics: Intel HD Graphics 4600, Keyboard: USB Standard Keyboard, Mouse: USB Optical Mouse, NIC: Intel® Ethernet Connection I217L GbE LOM integrated network connection, Audio: DTS Sound audio management technology, Ports: Parallel and USB Ports, Power Supply: 320W, Standard efficiency or 90% high efficiency Power Supply, Chassis: Micro Tower Chassis and Operating System: Windows 8.1 Professional 64 Bit License Software.	10
17.	UPS	Supply and Installation of UPS having Input Connection: IEC-320 C14, Output Connection: IEC-320 C13, Communication Interface: USB, Form Factor: Mini tower, Capacity (VA / W): 1000 / 600, Nominal Input Power: 230VAC – single phase with ground – 50 or 60Hz auto-select, Input Voltage: 160 to 287VAC, Input Frequency: 50 / 60Hz ± 5%, Transfer Time (AC to DC): 4 to 6ms typical, Surge Protection: 220J, Wave Form: Stepped Sine wave and includes shutdown software.	10
18.	UPS	Supply and Installation of UPS having Rectifier Type: IGBT, Input	1



Sr.#	Item	Description	Qty
		Voltage Range: Single Phase 120 VAC to 276 VAC, Input Power Factor: Single Phase 0.99, Communication Interface: USB, Form Factor: Mini tower, Capacity (kVA/kW): 6 / 4.8, Transfer Time (Power Failure): No transfer time and on-line operation, Surge Protection: IEC / EN 61000-4-5, Protection Level: IP20, Backup Time: Standard (5 to 10 mins.) and includes all allied software's.	
19.	Scanner	Scan Resolution: Hardware: 2400 x 2400 dpi (on flatbed), 600 x 600 (on ADF), Optical: 2400 dpi, Enhanced: 19,200 dpi, 48-bit, 65536 grayscale levels Scan Speed (ADF): 15 ppm/6 ipm, Scan Media Types Paper (plain, inkjet, photo), envelopes, cards (index, greeting), 3-D object Technologies: Adaptive Lighting, Auto Red-eye Removal, Image Restoration, Photo Brightening, Maximum scan size: 8.5 x 14 inch (legal size) Enlargement Range: 12 to 2400% in 1% increments Connectivity: 1 Hi-Speed USB 2.0 Features: 50-page ADF (with duplex scanning), 5 front panel buttons.	1
20.	Fixed Multimedia Projector	Supply and Installation of Fixed Multimedia Projector having Projection System: DLP, Native Resolution: XGA (1024x768), Brightness: 4000 ANSI Lumen, Contrast Ratio: 13000:1, Display Color: 1.07 Billion Colors, Lens: F=2.58~3.24 & f=15.94~25.5mm, Aspect Ratio: Native 4:3 (5 aspect ratio selectable), Throw Ratio: 1.39~2.26, Image Size (Diagonal): 33" ~ 300", Zoom Ratio: 1.6x and Lamp Type: Up to 310W.	1
21.	Portable Multimedia Projector	Supply and Installation of Portable Multimedia Projector having Projection System: DLP, Native Resolution: XGA (1024x768), Brightness: 3000 AL, Contrast Ratio: 13000:1, Display Color: 1.07 Billion Colors, Lens: F=2.56~2.8 & f=21~23.1mm, Aspect Ratio: Native 4:3 (5 aspect ratio selectable), Throw Ratio: 1.86~2.04, Image Size (Diagonal): 36" ~ 300", Zoom Ratio: 1.1:1 and Lamp Type: Up to 190W.	1
22.	Projector Screen Motorized	Supply and installation of Projector Screen Motorized having Size 6 x 8.	1
23.	Passport Drive	Supply and Installation of Passport Drive having Capacity: 5 TB, Connectivity: USB 3.0 ports, Shocking speeds up to 215 MB/s, Fan-free Aluminum Heat Sink Design and Data Security with Encryption.	6
24.	USB Flash Drive	Supply of USB flash drive having Capacity: 16 GB and Connectivity: USB 3.0 ports.	15
25.	Interactive White Board	Supply and Installation Interactive White Board having of Size: 84 Inch, Active Size: 79.3 Inch, Aspect Ration: 4:3 with left and right icons, Touch Way: Finger, pointer or any other opaque objects, Multi-touch: 2 points or 4 points, Orientation Accuracy: < 1mm,	1

Sr.#	Item	Description	Qty
		Cursor Speed: Approximately 180 dots per second, Resolution: 16384 (W) x 16384 (D), Board Material: Nano galvanized sheet, aluminum honeycomb panel, Mounting Way: Wall mounting and Mobile Stand include, Interface: USB 2.0, Power Supply: USB and including all mandatory items.	
26.	PABX	Supply and Installation of Rack mountable PABX System having support of 12 direct lines, 36 extension lines and 48 telephone set including all allied accessories and related cabling.	1 Solution
27.	LED TV	Supply and Installation of Internet Enabled LED HD TV 46" with all other requirements of reputed brand. Contractor should provide best quality TV Cable System in the ASR Head Office Building.	5
28.	Water Dispenser	Supply and Installation of Water Dispenser having Capacity 14 liters, Eco Safety, Compressor Cooling, Precise Temperature Function Sensor Function, Easy Operation Switch, Hot & Cold options and Cabinet with Fridge.	5
29.	Room Refrigerator	Supply and Installation of Room Refrigerator having Capacity: 52 liters, Cooling Type: Direct Cooling Reversible Door & Single Door, Compact design and Eco Friendly. Contractor should provide appropriate Voltage Stabilizer.	5
30.	Refrigerator	Supply and Installation of Refrigerator having Capacity: 292 liters, Cooling Type: Direct Cool, D-Frost Water Evaporated Pan, Two Door, Wide Body design, Big Condenser, Energy Sufficient & Super Performance and Oil Cooling Compressor. Contractor should provide appropriate Voltage Stabilizer.	1
31.	Microwave Oven	Supply and Installation of Microwave Oven having Capacity: 23 liters, 7 Built In Recipes, SS Control Panel, Jet / Weight Defrost, Mirror glass door and Timer up to 95mins.	2
32.	Email Server License	Supply and Installation of ALTn MDAemon 15.0 including Security Plus (Additional layer of antivirus and outbreak protection.), Outlook Connector (Enables end users to use the Microsoft Outlook client.) and ActiveSync for Mdaemon (Connect mobile devices to the Mdaemon server.) for 50 Users.	1 Solution
33.	Antivirus Server License	Supply and Installation of Antivirus Endpoint Protection Advanced for SMB for 50 Users including Threat Protection, Web and Messaging Security, Mobile Security, Data Protection and Management.	1 Solution
34.	Laying Work	Data, Electrical and Voice Cabling, Network Cable with laying, Electric Cable laying, Network Points, Phase Plates, UPS Cabling etc. included.	1 Job
35.	Internet Connectivity	Redundant Fiber Optics Link with Different Paths having 6 Mbps Internet CIR Circuit from any Tier I Internet Service Provider of Pakistan including strong local and international peering.	1 Job



Sr.#	Item	Description	Qty
36.	Data Connectivity	Wireless Based Data Connectivity required for 10 Mbps from ASR Head Office, Clifton, Karachi to Revenue House, Clifton, Karachi for 1 Years Bases.	1 Job
37.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 36.	1 Job

**Package "C" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for 6 Scanning Unit Located at Karachi, Hyderabad, Shaheed Benazirabad, Larkana, Sukkur & MirpurKhas)**

Sr.#	Item	Description	Qty
1.	Water Dispenser	Supply and Installation of Water Dispenser having Capacity 14 liters, Eco Safety, Compressor Cooling, Precise Temperature Function Sensor Function, Easy Operation Switch, Hot & Cold options and Cabinet with Fridge.	6
2.	QR Code Scanner	Supply and Installation of USB Long Scan Handheld Automatic Laser QR Code Scanner, Bar Code Type: USB, COM, PS/2 Optical Resolution: 0.10mm (4mil) PCS 0.9 and Scan Element Type: Laser	30
3.	QR Code Label Printer	Supply and Installation of QR Code LaserJet Label Printers having Resolution: 203 dpi (8 dots/mm), Width: 4.09" (104 mm) and Speed: 4" (102 mm) per second.	25
4.	Black LaserJet Printers	Supply and Installation of Black Laser Printer having Print speed black: Upto 35 ppm, Printer Resolution: Upto 1200 x 1200 dpi, First Page Out: As fast as 8 sec Duty Cycle: Upto 50,000 pages, Duplex Printing: Yes, Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.	6
5	Biometric Fingerprint Scanner	Supply of Biometric Fingerprint Scanner Devices, Connection Type: USB 2.0, Supported OS: Microsoft Windows (32-bit & 64-bit), Resolution: 500 ppi, Image Capture Area (Platen size): 25 x 25 mm (1.0" x 1.0"), Fingerprint Image Size: 500 x 500 pixels and Sensor Type: Optical.	35
6.	Color Photocopier	Supply and Installation of Photocopier having Type: Color Laser Multifunctional Device (Reader / Printer Desktop), CPU: 1.66 Ghz, Memory: 2 GB, Hard Disk Drive: 250 GB, Network Interface: Ethernet 1000Base-T / 100Base-TX / 10Base-T - (RJ-45), Resolution: Scan 600 x 600 dpi, Copy 600 x 600 dpi & Print 1200 x 1200 dpi, Copy/Print Speed: A4 30 / 30 ppm & A3 15 / 15 ppm, Multiple Copies/Print: 1 to 999 copies, Magnification: Copy Ratio 25 – 400%, First Copy Time: Full Color 8.2 Sec & Mono Chrome 5.8 Sec, Warm-up Time: 34 sec and PDL: UFR II (Standard).	7
7.	Scanner (for helpdesk)	Scan Resolution: Hardware: 2400 x 2400 dpi (on flatbed), 600 x 600 (on ADF), Optical: 2400 dpi, Enhanced: 19,200 dpi, 48-bit, 65536	6

Sr.#	Item	Description	Qty
		grayscale levels Scan Speed (ADF): 15 ppm/6 ipm, Scan Media Types Paper (plain, inkjet, photo), envelopes, cards (index, greeting), 3-D object Technologies: Adaptive Lighting, Auto Red-eye Removal, Image Restoration, Photo Brightening, Maximum scan size: 8.5 x 14 inch (legal size) Enlargement Range: 12 to 2400% in 1% increments Connectivity: 1 Hi-Speed USB 2.0 Features: 50-page ADF (with duplex scanning), 5 front panel buttons.	
8.	Maintenance Kits for Scanners	ADF Roller and separation Pad Replacement Kit for HP Digital Sender Flow 8500 fn1 Document Capture Workstation (Model:L2719-65001)	20
9.	Document Scanner + Flatbed Scanner	Supply and Installation of Document Scanner + Flatbed Scanner having Document Scanner Type: Desktop sheet-fed & Flatbed scanner, Document Feeding: Automatic or manual sheet feeding, Document Size: Width 50.8 - 305mm and Length 70 - 432mm, Document Thickness and Weight: Continuous Feeding: 20 - 209g/m2, 0.04 - 0.25mm and Non-Separation Mode: 20 - 255 g/m2, 0.04 - 0.3mm, Feeding Capacity: 48mm stack or 500 sheets of 80 g/m2, Scanning Element: 3-line CMOS CIS, Light Source: LED (red, green, and blue), Scanning Side: Simplex / Duplex, Scanning Modes: Black and White, Error Diffusion, Advanced Text Enhancement, Advanced Text Enhancement II, 256-level Grayscale, 24-bit Color, Auto Colour Detection, Scanning Resolutions: 150 x 150dpi, 200 x 200dpi, 240 x 240dpi, 300 x 300dpi, 400 x 400dpi, 600 x 600dpi, Interface: Hi-Speed USB 2.0, Scanner Driver: ISIS / TWAIN, Flatbed Scanner, Type: Desktop flatbed scanner Scanning Document Size: Width 297.4mm and Length 431.8mm, Scanning Sensor: CCD, Light Source: LED, Scanning Side: Simplex, Scanning Modes: Black and White, Error Diffusion, 256-level Grayscale, Advanced Text Enhancement II, 24-bit Colour Scanning Resolution: (Primary Scan Lines x Secondary Scan Lines) 100 x 100dpi / 150 x 150dpi / 200 x 200dpi / 240 x 240dpi / 300 x 300dpi / 400 x 400dpi / 600 x 600dpi Interface: Hi-Speed USB 2.0 and Noise: Not more than 59dB.	8
10.	All in One PC	Integrated form Factor, Lockable rear access panel with intrusion sensor, Intel® Core™ i7-4770S up to 3.9 GHz Max. Turbo Frequency (3.1 GHz base frequency), 8 MB cache or higher, 4 cores, 8 threads, Intel® stable Image Platform Program (SIPP) Latest bios for better security, manageability and software image stability Intel® Q85 chipset, Integrated Intel® HD Graphics, Integrated Intel® I217LM or higher Gigabit Network Connection. 16 GB of DDR3 SDRAM, dual channel memory support, two SODIMM slots 1 x 120 GB, SATA, Solid State Drive, 1 x 1 TB, 7200 rpm, STAT 6.0 GB/s, SMART IV, Support for up to 3 storage drivers( 2 STAT, 1 mSTATA) Slim DVD ROM, Should be ENERGY STAR® CCC, CECP & SEPA Certified, 21.5-inch IPS Full HD (1920 x 1080) diagonal widescreen SLED backlit anti-glare LCD. Operating System: Windows 8.1 Professional 64 Bit License Software	10
11.	Windows Licensing	Microsoft Windows Server Standard 2012 R2 Licensing	15
12.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 10.	1 Job



**Technical Specifications**

**Note:** Vendors should submit their bid with equivalent or higher configuration.

**Delivery schedule**

The successful bidder would be required to carry out the delivery of the BOQ items within a period of Three (03) months after signing of contract.

**Support Capabilities**

Responding organization should indicate the support capabilities for the provided IT hardware and electronic equipments in the following format:

	Item	Action Item	Maximum Resolution Time
1	IT Hardware and Electronic Equipments	Repair	01 Week
		Re-Configuration	1 Working Days
2	Support & Maintenance	Troubleshooting/Tune-up	1 Working Days
		Re-Configuration/Installation	3 Working Days



### PRICE SCHEDULE

The bidders should submit their price bid/financial proposal in the following prescribed format detailing item, its quantity, unit price & total price in accordance with the terms and conditions and provisions of this bid document.

**Package "A" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for Data Center @ Revenue House, Karachi)**

Sr.#	Item	Description	Qty	Unit Price	Total Price
1	Converge / Unified Storage	<p>Offered Storage array shall be a true converge / unified storage with a single Microcode / operating system instead of running different Microcode / Operating system / Controllers for File, block and object services respectively. Offered Storage array shall be end-to-end 12Gbps enabled which means that both Front-end Fiber channel ports and Back-end engines shall be operated at minimum 12Gbps speed.</p> <p>Operating System &amp; Clustering Support: The storage array should support industry-leading Operating System platforms including: Windows Server 2008, Windows 2012, Vmware, Sun Solaris, HP-UX, IBM-AIX and Linux.</p> <p>Capacity &amp; Scalability: The Storage Array shall be offered with 200 TB Capacity with following tiers.</p> <p>The Storage Array shall be offered with 250 TB or higher Capacity with following tiers.</p> <p>Tier 0: SSD 5% useable capacity with Raid 5</p> <p>Tier 1: SAS 40% useable capacity with Raid 5</p> <p>Tier 2: NL-SAS 55% useable capacity with Raid 6</p> <p>2. Storage model shall be scalable up to 570 drives or higher.</p> <p>Cache: Offered Storage Array shall be given with Minimum of 64GB cache in a single unit of dual controller and shall be scalable to 128GB cache with 4 controllers. Cache shall be used only for Data and Control information. OS overhead shall not be done inside cache. Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache. Minimum of 1TB Flash cache shall be supported. If Flash cache is not supported inside the storage array then vendor shall</p>	1 Solution		





Sr.#	Item	Description	Qty	Unit Price	Total Price
		<p>ensure that offered storage array shall be scalable to minimum of 256GB DRAM cache without any replacement or upgrade of controllers.</p> <p>Processing Power: Offered Storage architecture shall be based on purpose built ASIC, XOR engine so that there shall be no load on the storage CPU during Raid Parity calculations.</p> <p>In case vendor doesn't have above ASIC functionality then additional 16GB read and write cache shall be provided per controller pair to balance the performance.</p> <p>Architecture &amp; Processing Power: Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.</p> <p>No Single point of Failure: Offered Storage Array shall be configured in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.</p> <p>Disk Drive Support: Offered Storage Array shall support dual-ported 300 / 600 / 1200 /1800GB hot-pluggable Enterprise SAS hard drives, Minimum of 400GB SSD Drives along with near line SAS 2TB / 4TB / 6TB drives.</p> <p>Raid Support &amp; Virtualization: Offered Storage Subsystem shall support Raid 0, 1 , 1+0, 5 and Raid 6. Offered storage array shall have native virtualization support so that Raid 1, Raid 5, Raid 1+0, Raid 6 can be carved out from a logical space instead of dedicating separate physical disks for each application. Every supplied disk shall be able to participate into multiple and different raid sets simultaneously. In case vendor doesn't have above functionality, then 20% additional raw capacity shall be provided for each type of disk to balance out the capacity utilization.</p> <p>Data Protection: In case of Power failure, Storage array shall have de-stage feature to avoid any data loss.</p> <p>Protocols: Offered Storage array shall support all well-known protocols like FC, ISCSI, FCOE, SMB 3.0, NFS V4, NDMP etc.</p>			

Sr.#	Item	Description	Qty	Unit Price	Total Price
		<p>Host Ports and Back-end Ports: Offered Storage shall have minimum of 4 host ports for connectivity to servers running at 16Gbps speed and shall be scalable to 8 host ports. Offered Storage shall also support:</p> <p>a. Additional Quad number of 10Gbps ISCSI / FCOE ports.</p> <p>b. Along with ISCSI / FCOE ports, additional Quad number of 10Gbps IP ports or eight numbers of 1Gbps IP ports for File services operations. Offered storage shall have two additional IP ports for the storage based replication. Offered storage shall have minimum of 16 SAS lanes running at 12Gbps speed and shall be scalable to 32 SAS lanes without any controller change.</p> <p>Global Hot Spare: offered Storage Array shall support distributed Global hot Spare for offered Disk drives. Global hot spare shall be configure as per industry practice.</p> <p>Performance and Quality of Service: Shall have capability to use more than 30 drives per array group or raid group for better performance. Storage shall be provided with Performance Management Software. Offered storage array shall support quality of service for critical applications so that appropriate and required response time can be defined for application logical units at storage. It shall be possible to define different service / response time for different application logical units. Quality of service engine shall allow to define minimum and maximum cap for required IOPS / bandwidth for a given logical units of application running at storage array. It shall be possible to change the quality of service Response time (In both milliseconds as well as Sub-milliseconds), IOPS, bandwidth specification on basis of real time. Thin Provisioning and Space Reclaim: Offered storage array shall be supplied with Thin provisioning and Thin Re-claim to make the volume thin for an extended period of time for complete array supported raw capacity. Thin Re-claim (Zero Page reclaim) inside storage subsystem shall be automatic in nature and there shall be no need to run any utility inside storage for same. Thin Re-claim inside storage</p>			



Sr.#	Item	Description	Qty	Unit Price	Total Price
		<p>shall not cause any overloading of Storage CPU and shall be able to claim the Zero pages even during peak load without any performance impact. For effective capacity utilization, thin reclaim maximum unit shall be 16KB. Vendor shall provide the documentary proof for same. Offered storage array shall be tightly integrated with VMware so that Eager zero disks layout can be used with thin provisioning and thin reclaim. Maintenance: Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives. Snapshot / Point in time copy / Clone: Offered Storage shall have support to make the snapshot and full copy (Clone) on the thin volumes if original volume is created on thick or vice-versa. The storage array should have support for both controller-based as well as file system based snapshots functionality (At-least 1024 copies for a given volume or a file store). Storage array shall have functionality to re-claim the space from Thin Provisioned Deleted snapshot automatically. Vendors shall provision at-least 20% additional space over and above the actual requirements, if space re-claim from thin provisioned deleted snapshot is not possible automatically. Storage Array Configuration &amp; Management Software: Vendor shall provide Storage Array configuration and Management software. Software shall be able to manage more than one array of same family. Storage Tiering: Offered storage shall support dynamic migration of Volume from one Raid set to another set while keeping the application online. For effective data tiering, Storage subsystem shall support automatically Policy based Sub-Lun Data Migration from one Set of drive Tier to another set of drive tier. Remote Replication: The storage array should support hardware based data replication at the array controller level across all models of the offered family. The Storage array shall also support three ways (3 Data Centers) replication to ensure zero RPO in native fashion without using any additional replication appliance. Replication shall support incremental replication after resumption from Link Failure or failback situations. Storage solution should</p>			

Sr.#	Item	Description	Qty	Unit Price	Total Price
		include Replication licenses.			
2	SAN Switch	<p>Non-blocking architecture with minimum of 8 ports and scalable up to 24 ports in a single domain concurrently active at 8 Gbit/sec full duplex with no oversubscription. Minimum Dual switches shall be offered. The switch should support auto-sensing 1, 2, 4, and 8 Gbit/sec capabilities. The switch shall support different port types such as FL_Port, F_Port, M_Port (Mirror Port), and E_Port; self-discovery based on switch type (U_Port); optional port type control in Access Gateway mode: F_Port and NPIV-enabled N_Port. The switch should be rack mountable. Non disruptive Microcode/ firmware Upgrades and hot code activation. The switch shall provide Aggregate bandwidth of 192 Gbit/sec: 24 ports × 8 Gbit/sec (data rate) end to end. Shall have optional support for Adaptive Networking services such as Quality of Service (QoS) to help optimize application performance in consolidated, virtual environments. It should be possible to define high, medium and low priority QOS zones to expedite high priority traffic. SAN switch shall have support to restrict data flow from less critical hosts at preset bandwidths. The Switch should be configured with the Zoning and shall also support ISL trunking when more than 2 switches are configured in a single fabric. The switch shall be able to support ISL trunk up to 64 Gbit/sec between a pair of switches for optimal bandwidth utilization and load balancing. Exchange-based load balancing across ISLs should be supported with Dynamic Path Selection included in Switch OS</p> <p>SAN switch shall have support to isolate the high bandwidth data flows traffic to specific ISLs. Switch shall support to measure the top bandwidth-consuming traffic in real time for a specific physical or virtual device, or end to end across the fabric. Support for web based management and should also support CLI. The switch shall support advanced zoning and ACL to simplify administration and significantly increase control over data access. Offered Switch shall have support to configure the switches with alerts based on threshold values for temperature, fan status, Power</p>	01 Each		



Sr.#	Item	Description	Qty	Unit Price	Total Price
		<p>supply status, port status.</p> <p>Switch shall support POST and online/offline diagnostics, including RAS trace logging, environmental monitoring, non-disruptive daemon restart, FC ping and Path info (FC trace route), port mirroring (SPAN port).The switch should have USB port for firmware download, support save, and configuration upload/download. Offered SAN switches shall be highly efficient in power consumption. Bidder shall ensure that each offered SAN switch shall consume less than 60 Watt of power.</p>			
3	Server for Storage	<p>Supply &amp; Installation of 2U Rack server having 2 x E5-2630v3 or higher processor, with Intel® C610 Series Chipset, with 64GB scalable to at least up to 768GB, using DDR4 Load Reduced DIMM (LRDIMM) memory modules Advanced ECC with multi-bit error protection and memory online spare mode, 2 x 300GB 12G SAS 10K 2.5in, 2 x 300GB 12G SAS 15K 2.5in Support up to Up to 24+2 SFF/12+3 LFF max, HDD/SSD.</p> <p>With DVD-RW, Server should support one of below RAID controller without consuming PCIe slot Embedded 6Gb/s SATA controller RAID controller with RAID 0/1/10/5 or PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or in a PCI Express slot), Server should support networking cards with below features: 1Gb 4-port network adaptor supporting advanced features such as Large Send offload capability, TCP checksum and segmentation, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as Vmware NetQueue and Microsoft VMQ. 10Gb 2-port Ethernet adaptor supporting enterprise class features such as VLAN tagging, adaptive interrupt coalescing, MSI-X, NIC teaming (bonding), Receive Side Scaling (RSS), jumbo frames, PXE boot and virtualization features such as Vmware NetQueue and Microsoft VMQ. 10Gb 2-port Adapter providing Ethernet and iSCSI or Fibre Channel Over Ethernet (FcoE) connectivity using Converged Enhanced Ethernet (CEE) standards. This adaptor</p>	2 Each		

Sr.#	Item	Description	Qty	Unit Price	Total Price
		<p>should support Hardware acceleration and offloads for stateless TCP/IP, TCP Offload Engine (TOE), Fibre Channel over Ethernet (FcoE), Jumbo frames and iSCSI. 10Gb 2-port provide up to 40Gb bi-directional bandwidth, Converges FcoE or RoCE with LAN traffic on a single 10 GbE wire, Tunnel Offload support for VXLAN and NVGRE, RDMA over Converged Ethernet (RoCE)</p> <p>Should have Interface Serial – 1, Micro SD slot – 1, USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p> <p>Bus Slot Requirement: Six PCI-Express 3.0 slots, at least two x16 and four x8 slots, Redundant platinum Power Supplies, Redundant hot-plug system fans, Integrated Matrox G200eH2 video standard with 16MB of Video RAM,</p> <p>Server Management: The Systems Management software should provide Role-based security, Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts, Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a Personalized dashboard to monitor device health, hardware events, and contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location – console based) or off premise (using internet), Should support scheduled execution of OS commands, batch files, scripts, and command line apps on remote nodes, Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components, The Server Management Software should be of the same brand as of the server supplier, Solution</p>			



Sr.#	Item	Description	Qty	Unit Price	Total Price
		available to Deploy a fast and easy installation via software appliance delivery mode. With its own OS and Database to provide infra and lifecycle management, Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV with Windows Server 2012 Standard License			
4	Upgrade of Existing HP 3 Par SAN	HP M6720 LFF(3.5in) SAS FldIntDrvEncl x 7, HP M6720 2TB 6G SAS 7.2K 3.5in NL HDD x 168, HP 3PAR 7000 Drives over 1TB Support x 168, HP 3PAR 7000 Drive Enclosure Support x 7, HPE Startup 3PAR 7000 4U SAS Enclosr SVC x 7, HP Proactive Select Credit SVC, HP 3PAR 7200 Replication Suite Drive LTU x 48			
3.	Server	Supply and Installation of Server having Processor: 2 X E5-2623v3 Processors FIO Kit, Intel® C610 Series Chipset, RAM: 8 X 16 GB 2Rx4 PC4-2133P-R Kit RAM (128 GB), 1 X Universal Media Bay Kit, HDD: 5 X 900GB 6G SAS 10K 2.5in SC ENT HDD (5 HDD Per Server), 1 X 9.5mm SATA DVD-ROM Kit, 1 X 12Gb 2-ports SAS Array Controller, 1 X 8Gb 2-port PCIe FC HBA, 1 X 1.83m 10A C13 CN Power Cord, 1 X 2U Security Bezel Kit, 1 X 2U SFF Easy Install Rail Kit, RPS 500W FS Plat Hot, Plug Power Supply Kit & Redundant FANS and Microsoft Windows Server Standard 2012 R2 Licensed.	3		
4.	Database Server License	Supply and Installation of Microsoft SQL Enterprise Edition 2014 for 4 Cores.	3 Solution		
5.	Application Server License	Supply and Installation of Microsoft Visual Studio Professional Edition 2013 and .NET Framework.	1 Solution		
6.	Basecamp Enterprise version license	Supply and Installation of Basecamp Enterprise version with the following features.  Ability to manage more than 50 users, groups, chat, emails, To-Dos, Message Board, Schedules, Latest activity on project timeline and Reports with 2	1 Solution		

Sr.#	Item	Description	Qty	Unit Price	Total Price
		Terabytes file storage.			
7.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 6.	1 Job		





**Package "B" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for ASR Head Office Building)**

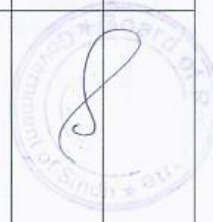
Sr.#	Item	Description	Qty	Unit Price	Total Price
1.	Server	Supply and Installation of Server having Processor: 2 X E5-2623v3 Processors FIO Kit, Intel® C610 Series Chipset, RAM: 8 X 16GB 2Rx4 PC4-2133P-R Kit RAM (128 GB), 1 X Universal Media Bay Kit, HDD: 5 X 900GB 6G SAS 10K 2.5in SC ENT HDD (5 HDD Per Server), 1 X 9.5mm SATA DVD-ROM Kit, 1 X 12Gb 2-ports SAS Array Controller, 1 X 8Gb 2-port PCIe FC HBA, 1 X 1.83m 10A C13 CN Power Cord, 1 X 2U Security Bezel Kit, 1 X 2U SFF Easy Install Rail Kit, RPS 500W FS Plat Hot, Plug Power Supply Kit & Redundant FANS and Microsoft Windows Server Standard 2012 R2 Licensed.	3		
2.	Communication Rack	Supply and Installation of Communication Rack having Rack Size: 2000 mm (42U) x 600 mm x 1200 mm, Useable U space: 29U Air Flow Management Panel: 5U x 4, 2U x 3, 1U x 3, total 29U, Maximum depth of equipment: 1023 mm, Vertical Cable Management Panel: 2, Area: 0.6m x 1.2m = 0.72 m <sup>2</sup> , Color: Black, IP Marking: IP5X, Display Panel: 7" Touch Panel LCD, LED Lighting: 2, System Luminance: 88lux/1M, UPS Capacity: 5,000VA / 4,500W, System Input Breaker: 80A (Single Phase), System Frequency: 50Hz or 60Hz (2 different models), Power Distribution Units (PDU) 32A input Switched PDU, 18x C13 + 6x C19, Lightning Protection / Surge Suppression: Level 3 & 20KA, Maintenance Bypass: Included, Cooling Capacity: 900W ~ 3,000W & Variable Speed, Refrigerant: R410A, Emergency Fan: Two, one at front bottom and one at rear top, System Management (UPS/ Cooling/PDU): Yes, Temperature Sensor 2, Water Leak Detection: 1 piece & 5 meters long and Door Access Sensor: 2.	2		
3.	Router	Supply and Installation of Router having DRAM: Upto 256 MB, Onboard LAN Ports: 2-10/100/1000, Network-Module Slot: 1 Slot, supports NM, NME and NME-X type modules, Extension Voice Module Slot: 1, PVDM (DSP) Slots on Motherboard: 3, Rack Mounting: Included, IOS: Support upto IP Level and Part replacement should be on Next Working Day.	1		
4.	Firewall	Supply and Installation of Firewall having Memory: 4 GB, System Flash: 4 GB, Stateful Inspection Throughput: 1 Gbps, Stateful Inspection Throughput (Multiprotocol): 500 Mbps, IPS Throughput: 250 Mbps, Users or Node: Unlimited, IPsec VPN peers: 250, Concurrent Connections: 100,000, Expansion Slot: 1 Interface Card, User-accessible Flash Slot: No, USB 2.0 ports: 2, Integrated I/O: 6 Gigabit Ethernet (GE) copper, Dedicated Management Port: Yes (1 GE),	1		

Sr.#	Item	Description	Qty	Unit Price	Total Price
		Serial Ports: 1 RJ-45 console and Part replacement should be on Next Working Day.			
5.	Core Switch	Supply and Installation of Multilayer Switch having Ethernet Port: 24 10/100/1000 Ports, SFP-based Gigabit Ethernet Ports: 4, Performance: 32-Gbps Switching Fabric, Flash Memory: 32 MB, DRAM Memory: 128 MB, Rack Mounting: Included, Enterprise-class Intelligent Services delivered to the Network Edge, IOS: Support upto IP Level and Part replacement should be on Next Working Day.	1		
6.	Access Switch	Supply and Installation of Access Switch having Ethernet Port: 24 10/100/1000 ports, 4 of which are dual-purpose (10/100/1000 or SFP), Switching Bandwidth: upto 32 Gbps, Flash Memory: 32 MB, DRAM Memory: 64 MB, Rack Mounting: Included and IOS: Support upto LAN Level and Part replacement should be on Next Working Day.	2		
7.	Wireless Controller	Supply and Installation of Wireless LAN Controller should supports upto 75 access points and upto 1000 clients, Ease of Deployment: Quick and easy deployment Access Points can be connected directly to Wireless LAN Controller via two PoE (Power over Ethernet) ports, High Performance: Wired-network speed and non blocking performance for 802.11n and 802.11ac networks which supports up to 1 Gbps throughput, Rack Mounting: Yes, should include all allied software's and Part replacement should be on Next Working Day.	1		
8.	Wireless Access Point	Supply and Installation of Access Point controller based should support 3x3 MIMO with two spatial streams, Maximal ratio combining (MRC), 802.11n and 802.11a/g beamforming, 20- and 40-MHz channels, PHY data rates up to 300 Mbps (40 MHz with 5 GHz), Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx), 802.11 Dynamic Frequency Selection (DFS), Cyclic shift diversity (CSD) support and Part replacement should be on Next Working Day.	10		
9.	Colour Laser Printer	Supply and Installation of Color Laser Printer having Print speed black: Upto 35 ppm, Print speed color: Upto 35 ppm, First Page Out: Black: As fast as 9.5 sec & Color: As fast as 9.5 sec 6 Print quality black: Upto 1200 x 1200 dpi, Print quality color: Upto 1200 x 1200 dpi, Duty cycle (monthly, A4): Upto 100,000 pages, Print technology: Laser Processor speed: upto 800 MHz, Duplex Printing: Yes, Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.	3		
10.	Black Laser Printer	Supply and Installation of Black Laser Printer having Print speed black: Upto 35 ppm, Printer Resolution: Upto 1200 x 1200 dpi, First Page Out: As fast as 8 sec Duty Cycle: Upto 50,000 pages, Duplex Printing: Yes,	10		



Sr.#	Item	Description	Qty	Unit Price	Total Price
		Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.			
11.	Scanner	Supply and Installation of Scanner having Scanner Type: Flatbed, Scan Technology: Charge Coupled Device (CCD), Scan Resolution: 4800 x 9600 dpi, 48-bit, 256 grayscale levels, Scan Speed Preview Mode: Upto 11 sec, Scan Media Types: Paper (inkjet, laser, plain), photographic material (silver halide, pigment-dye), 3-D objects, 35 mm slides and negatives (using transparent media adapter), Maximum scan size: 8.5 x 11.7 in and Enlargement Range: 10 to 2400% in 1% increments	3		
12.	Photocopier	Supply and Installation of Photocopier having Type: Desktop (Reader Combined + Inner Output), Feeding Method: Duplex Automatic Document Feeder, Imaging System: Laser Dry Electrostatic Transfer System, Memory: upto 256MB, Network Interface: Ethernet (100Base-TX / 10Base-T), Warm Up Time: 30 seconds maximum after powering ON & 1 second maximum from the Sleep mode, First Copy Output Time: 3.9 seconds or less, Multiple Copies: 1 to 999 sheets, Magnification: 25% to 400% (1% increment), Maximum Original Size: Max. A3 / 11" x 17", Duplex: Standard, Copy / Print Speed: 45 ppm, Resolution: (Reading) 600 x 600dpi & (Writing) 1200 x 1200dpi, Paper Sources (80gsm): Paper Cassette: Standard: 2 x 550 sheets paper capacity & Maximum: 4 x 550 sheets paper capacity and Stack Bypass: Standard: 100 sheets paper capacity.	1		
13.	Color Photocopier	Supply and Installation of Color Photocopier: Type: Desktop (Reader Combined + Inner Output), Feeding Method: Duplex Automatic Document Feeder, Imaging System: Laser Dry Electrostatic Transfer System, Memory: upto 256MB, Network Interface: Ethernet (100Base-TX / 10Base-T), Warm Up Time: 30 seconds maximum after powering ON & 1 second maximum from the Sleep mode, First Copy Output Time: 3.9 seconds or less, Multiple Copies: 1 to 999 sheets, Magnification: 25% to 400% (1% increment), Maximum Original Size: Max. A3 / 11" x 17", Duplex: Standard, Copy / Print Speed: 45 ppm, Resolution: (Reading) 600 x 600dpi & (Writing) 1200 x 1200dpi, Paper Sources (80gsm): Paper Cassette: Standard: 2 x 550 sheets paper capacity & Maximum: 4 x 550 sheets paper capacity and Stack Bypass: Standard: 100 sheets paper capacity.	1		
14.	Fax Machine	Supply and Installation of Fax Machine having Printer Type: Monochrome Laser, CPU: Upto Processor 133 MHz, Memory: 64 MB, Standard Interface: USB 2.0 High Speed, Print Speed: Upto 19 ppm (Letter), First	2		

Sr.#	Item	Description	Qty	Unit Price	Total Price
		Print Time: 7.8secs. (A4) and 7.7secs. (LTR), Print Resolution: Up to 600 x 600dpi 1200 (equivalent) x 600dpi, Print Memory: 64 MB (Shared), Standard Paper Source: 150-Sheet Cassette, Fax Modem Speed: Upto 33.6 Kbps, Fax Resolution: Upto 200 x 400 dpi (super fine), Compression Modes: MH, MR, MMR and Memory Capacity: Upto 512 pages.			
15.	Laptop	Supply and Installation of Laptop having Processor: C17 5500U 2.4 Ghz Turbo upto 3.0 Ghz, Chipset: Mobile Intel® HM76 Express, Memory DDR3L SDRAM: 8 GB, Internal Storage: 1TB 5400 rpm, Removable Storage: DVD RW, Display: 15.6" HD BV, FINGER PRINT, BACKLIT K/B, WEBCAM, MS Win 8.1 Pro License and Good Quality Carry Case.	8		
16.	Personal Computer	Supply and Installation of PC having Processor: Intel® Core™ i7 – 4790 Processor, Processor Speed: Up to 4.0 GHz Max Turbo Frequency (3.6 GHz base frequency) 8 MB cache – 4 cores – 8 threads, Chipset: Intel® Q87 Express chipset Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP), Memory: 8 GB DDR3 (2 x 4 GB) RAM, Hard Disk Drive: 1 TB 7200RPM SATA-6G HDD, Optical Drive: DVDRW Drive, Display: 18.5" LED LCD Screen, Graphics: Intel HD Graphics 4600, Keyboard: USB Standard Keyboard, Mouse: USB Optical Mouse, NIC: Intel® Ethernet Connection I217L GbE LOM integrated network connection, Audio: DTS Sound audio management technology, Ports: Parallel and USB Ports, Power Supply: 320W, Standard efficiency or 90% high efficiency Power Supply, Chassis: Micro Tower Chassis and Operating System: Windows 8.1 Professional 64 Bit License Software.	10		
17.	UPS	Supply and Installation of UPS having Input Connection: IEC-320 C14, Output Connection: IEC-320 C13, Communication Interface: USB, Form Factor: Mini tower, Capacity (VA / W): 1000 / 600, Nominal Input Power: 230VAC – single phase with ground – 50 or 60Hz auto-select, Input Voltage: 160 to 287VAC, Input Frequency: 50 / 60Hz ± 5%, Transfer Time (AC to DC): 4 to 6ms typical, Surge Protection: 220J, Wave Form: Stepped Sinewave and includes shutdown software.	10		
18.	UPS	Supply and Installation of UPS having Rectifier Type: IGBT, Input Voltage Range: Single Phase 120 VAC to 276 VAC, Input Power Factor: Single Phase 0.99, Communication Interface: USB, Form Factor: Mini tower, Capacity (kVA/kW): 6 / 4.8, Transfer Time (Power Failure): No transfer time and on-line operation, Surge Protection: IEC / EN 61000-4-5, Protection Level: IP20, Backup Time: Standard (5 to 10 mins.) and includes all allied software's.	1		



Sr.#	Item	Description	Qty	Unit Price	Total Price
19.	Scanner	Scan Resolution: Hardware: up to 2400 x 2400 dpi (on flatbed), Up to 600 x 600 (on ADF), Optical: Up to 2400 dpi, Enhanced: Up to 19,200 dpi, 48-bit, 65536 grayscale levels Scan Speed (ADF): Up to 15 ppm/6 ipm (using HP Scanning Software) Scan Media Types Paper (plain, inkjet, photo), envelopes, cards (index, greeting), 3-D object HP Real Life Technologies: Adaptive Lighting, Auto Red-eye Removal, Image Restoration, Photo Brightening, Maximum scan size: 8.5 x 14 inch (legal size) Enlargement Range: 12 to 2400% in 1% increments Connectivity: 1 Hi-Speed USB 2.0 Features: 50-page ADF (with duplex scanning), 5 front panel buttons.	1		
20.	Fixed Multimedia Projector	Supply and Installation of Fixed Multimedia Projector having Projection System: DLP, Native Resolution: XGA (1024x768), Brightness: 4000 ANSI Lumen, Contrast Ratio: 13000:1, Display Color: 1.07 Billion Colors, Lens: F=2.58~3.24 & f=15.94~25.5mm, Aspect Ratio: Native 4:3 (5 aspect ratio selectable), Throw Ratio: 1.39~2.26, Image Size (Diagonal): 33" ~ 300", Zoom Ratio: 1.6x and Lamp Type: Up to 310W.	1		
21.	Portable Multimedia Projector	Supply and Installation of Portable Multimedia Projector having Projection System: DLP, Native Resolution: XGA (1024x768), Brightness: 3000 AL, Contrast Ratio: 13000:1, Display Color: 1.07 Billion Colors, Lens: F=2.56~2.8 & f=21~23.1mm, Aspect Ratio: Native 4:3 (5 aspect ratio selectable), Throw Ratio: 1.86~2.04, Image Size (Diagonal): 36" ~ 300", Zoom Ratio: 1.1:1 and Lamp Type: Up to 190W.	1		
22	Projector Screen Motorized 6x8	Supply and installation of Projector Screen Motorized 6x8	1		
23.	Passport Drive	Supply and Installation of Passport Drive having Capacity: 5 TB, Connectivity: USB 3.0 ports, Shocking speeds up to 215 MB/s, Fan-free Aluminum Heat Sink Design and Data Security with Encryption.	6		
24	USB Flash Drive	Supply of 16 GM USB flash drive	15		
25.	Interactive White Board	Supply and Installation Interactive White Board having of Size: 84 Inch, Active Size: 79.3 Inch, Aspect Ratio: 4:3 with left and right icons, Touch Way: Finger, pointer or any other opaque objects, Multi-touch: 2 points or 4 points, Orientation Accuracy: < 1mm, Cursor Speed: Approximately 180 dots per second, Resolution: 16384 (W) x 16384 (D), Board Material: Nano galvanized sheet, aluminum honeycomb panel, Mounting Way: Wall mounting and Mobile Stand include, Interface: USB 2.0, Power Supply: USB and including all mandatory items.	1		
26.	IP PABX	Supply and Installation of Rack mountable IP PABX System having support of 12 direct lines, 36 extension lines and 48 IP Phones including all allied accessories.	1 Solution		

Sr.#	Item	Description	Qty	Unit Price	Total Price
27.	LED TV	Supply and Installation of Internet Enabled LED HD TV 46"withall other requirements of reputed brand. Contractor should provide best quality TV Cable System in the ASR Head office Building.	5		
28.	Water Dispenser	Supply and Installation of Water Dispenser having Capacity 14 liters, Eco Safety, Compressor Cooling, Precise Temperature Function Sensor Function, Easy Operation Switch, Hot & Cold options and Cabinet with Fridge.	5		
29.	Room Refrigerator	Supply and Installation of Room Refrigerator having Capacity: 52 liters, Cooling Type: Direct Cooling Reversible Door & Single Door, Compact design and Eco Friendly. Contractor should provide appropriate Voltage Stabilizer.	5		
30.	Refrigerator	Supply and Installation of Refrigerator having Capacity: 292 liters, Cooling Type: Direct Cool, D-Frost Water Evaporated Pan, Two Door, Wide Body design, Big Condenser, Energy Sufficient & Super Performance and Oil Cooling Compressor. Contractor should provide appropriate Voltage Stabilizer.	1		
31.	Microwave Oven	Supply and Installation of Microwave Oven having Capacity: 23 liters, 7 Built In Recipes, SS Control Panel, Jet / Weight Defrost, Mirror glass door and Timer up to 95mins..	2		
32.	Email Server License	Supply and Installation of ALtN MDAemon 15.0 including Security Plus (Additional layer of antivirus and outbreak protection.),Outlook Connector (Enables end users to use the Microsoft Outlook client.) and ActiveSync for MDAemon (Connect mobile devices to the MDAemon server.) for 50 Users.	1 Solution		
33.	Antivirus Server License	Supply and Installation of Anntivirus Endpoint Protection Advanced for SMB for 50 Users including Threat Protection, Web and Messaging Security, Mobile Security, Data Protection and Management.	1 Solution		
34.	Laying Work	Data, Electrical and Voice Cabling, Network Cable with laying, Electric Cable laying, Network Points, Phase Plates, UPS Cabling etc. included.	1 Job		
35.	Internet Connectivity	Redundant Fiber Optics Link with Different Paths having 5 Mbps Internet CIR Circuit from any Tier I Internet Service Provider of Pakistan including strong local and international peering.	1 Job		
36.	Data Connectivity	Wireless Based Data Connectivity required for 10 Mbps from ASR Head Office, Clifton, Karachi to Revenue House, Clifton, Karachi for 1 Years Bases.	1 Job		
37.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 36.	1 Job		



**Package "C" (Supply and Installation of IT, Hardware and Electronics Equipment along with Support for 6 Scanning Unit Located at Karachi, Hyderabad, Shaheed Benazirabad, Larkana, Sukker & Mirpur Khas)**

Sr.#	Item	Description	Qty	Unit Price	Total Price
1.	Water Dispenser	Supply and Installation of Water Dispenser having Capacity 14 liters, Eco Safety, Compressor Cooling, Precise Temperature Function Sensor Function, Easy Operation Switch, Hot & Cold options and Cabinet with Fridge.	6		
2.	QR Code Scanner	Supply and Installation of USB Long Scan Handheld Automatic Laser QR Code Scanner, Bar Code Type: USB, COM, PS/2 Optical Resolution: 0.10mm (4mil) PCS 0.9 and Scan Element Type: Laser	30		
3.	QR Code Label Printer	Supply and Installation of QR Code LaserJet Label Printers having Resolution: 203 dpi (8 dots/mm), Width: 4.09" (104 mm) and Speed: 4" (102 mm) per second.	25		
4.	Black LaserJet Printers	Supply and Installation of Black Laser Printer having Print speed black: Upto 35 ppm, Printer Resolution: Upto 1200 x 1200 dpi, First Page Out: As fast as 8 sec Duty Cycle: Upto 50,000 pages, Duplex Printing: Yes, Connectivity: 1 x Hi-Speed USB 2.0 & 1 x Gigabit Ethernet 10/100/1000T, Display: 2.0-in LCD and all cables included.	6		
5	Biometric Fingerprint Scanner	Supply of Biometric Fingerprint Scanner Devices, Connection Type: USB 2.0, Supported OS: Microsoft Windows (32-bit & 64-bit), Resolution: 500 ppi, Image Capture Area (Platen size): 25 x 25 mm (1.0" x 1.0"), Fingerprint Image Size: 500 x 500 pixels and Sensor Type: Optical.	35		
6.	Color Photocopier	Supply and Installation of Photocopier having Type: Color Laser Multifunctional Device (Reader / Printer Desktop), CPU: 1.66 Ghz, Memory: 2 GB, Hard Disk Drive: 250 GB, Network Interface: Ethernet 1000Base-T / 100Base-TX / 10Base-T - (RJ-45), Resolution: Scan 600 x 600 dpi, Copy 600 x 600 dpi & Print 1200 x 1200 dpi, Copy/Print Speed: A4 30 / 30 ppm & A3 15 / 15 ppm, Multiple Copies/Print: 1 to 999	7		

Sr.#	Item	Description	Qty	Unit Price	Total Price
		copies, Magnification: Copy Ratio 25 – 400%, First Copy Time: Full Color 8.2 Sec & Mono Chrome 5.8 Sec, Warm-up Time: 34 sec and PDL: UFR II (Standard).			
7.	Scanner (for helpdesk)	Scan Resolution: Hardware: 2400 x 2400 dpi (on flatbed), 600 x 600 (on ADF), Optical: 2400 dpi, Enhanced: 19,200 dpi, 48-bit, 65536 grayscale levels Scan Speed (ADF): 15 ppm/6 ipm, Scan Media Types Paper (plain, inkjet, photo), envelopes, cards (index, greeting), 3-D object Technologies: Adaptive Lighting, Auto Red-eye Removal, Image Restoration, Photo Brightening, Maximum scan size: 8.5 x 14 inch (legal size) Enlargement Range: 12 to 2400% in 1% increments Connectivity: 1 Hi-Speed USB 2.0 Features: 50-page ADF (with duplex scanning), 5 front panel buttons.	6		
8.	Maintenance Kits for Scanners	ADF Roller and separation Pad Replacement Kit for HP Digital Sender Flow 8500 fn1 Document Capture Workstation (Model:L2719-65001)	20		
9.	Document Scanner + Flatbed Scanner	Supply and Installation of Document Scanner + Flatbed Scanner having Document Scanner Type: Desktop sheet-fed & Flatbed scanner, Document Feeding: Automatic or manual sheet feeding, Document Size: Width 50.8 - 305mm and Length 70 - 432mm, Document Thickness and Weight: Continuous Feeding: 20 - 209g/m2, 0.04 - 0.25mm and Non-Separation Mode: 20 - 255 g/m2, 0.04 - 0.3mm, Feeding Capacity: 48mm stack or 500 sheets of 80 g/m2, Scanning Element: 3-line CMOS CIS, Light Source: LED (red, green, and blue), Scanning Side: Simplex / Duplex, Scanning Modes: Black and White, Error Diffusion, Advanced Text Enhancement, Advanced Text Enhancement II, 256-level Grayscale, 24-bit Color, Auto Colour Detection, Scanning Resolutions: 150 x 150dpi, 200 x 200dpi, 240 x 240dpi, 300 x 300dpi, 400 x 400dpi, 600 x 600dpi, Interface: Hi-Speed USB 2.0, Scanner Driver: ISIS / TWAIN, Flatbed Scanner, Type: Desktop flatbed scanner Scanning Document Size: Width 297.4mm and Length 431.8mm, Scanning Sensor: CCD, Light Source: LED, Scanning	8		





Sr.#	Item	Description	Qty	Unit Price	Total Price
		Side: Simplex, Scanning Modes: Black and White, Error Diffusion, 256-level Grayscale, Advanced Text Enhancement II, 24-bit Colour Scanning Resolution: (Primary Scan Lines x Secondary Scan Lines)100 x 100dpi / 150 x 150dpi / 200 x 200dpi / 240 x 240dpi / 300 x 300dpi / 400 x 400dpi / 600 x 600dpiInterface: Hi-Speed USB 2.0 and Noise: Not more than 59dB.			
10.	All in One PC	Integrated form Factor, Lockable rear access panel with intrusion sensor, Intel® Core™ i7-4770S up to 3.9 GHz Max. Turbo Frequency (3.1 GHz base frequency), 8 MB cache or higher, 4 cores, 8 threads, Intel® stable Image Platform Program (SIPP) Latest bios for better security, manageability and software image stability Intel® Q85 chipset, Integrated Intel® HD Graphics, Integrated Intel® I217LM or higher Gigabit Network Connection. 16 GB of DDR3 SDRAM, dual channel memory support, two SODIMM slots 1 x 120 GB, SATA, Solid State Drive, 1 x 1 TB, 7200 rpm, SATA 6.0 GB/s, SMART IV, Support for up to 3 storage drivers( 2 SATA, 1 mSATA) Slim DVD ROM, Should be ENERGY STAR® CCC, CECP & SEPA Certified, 21.5-inch IPS Full HD (1920 x 1080) diagonal widescreen SLED backlit anti-glare LCD. Operating System: Windows 8.1 Professional 64 Bit License Software	10		
11.	Windows Licensing	Microsoft Windows Server Standard 2012 R2 Licensing	15		
12.	Maintenance and Support	Contractor should provide One year complete service and support of above Sr.# 1 to Sr.# 10.	1 Job		

**BID FORM**

To,  
Project Director ASR,  
Project Management Unit,  
Reforms Wing & Special Cell,  
Board of Revenue,  
Government of Sindh  
C-73, Kehkashan, Block-2, Clifton, Karachi.

Sir,

**SUBJECT: "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT  
ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT  
UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT"**

Having examined the bidding documents, the receipt of which is hereby duly acknowledge, for the above Contract, we, the undersigned, offer to supply, deliver, test and impart training in conformity with the said bidding documents for the Total Bid Price Pak Rupees (in figures \_\_\_\_\_ in words)

or such other sums as may be ascertained in accordance with the Price Schedule attached hereto and made part of this bid.

We undertake, if our bid is accepted, to complete the works in accordance with the Contract Execution Schedule.

If our Bid is accepted, we will provide the performance security in the sum equivalent to 5% of the Contract Price for the due performance of the Contract.

We agree to abide by this Bid for the period of ninety (90) days from the date fixed for bid opening of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your Notification of Contract Award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest-priced or any Bid that you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2015

WITNESS  
Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_

\_\_\_\_\_  
BIDDER  
Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_



**BID SECURITY FORM**

WHEREAS [Name of Bidder] (hereinafter called "the Bidder" has submitted its bid dated [date] for the "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT", (hereinafter called "the Bid").

KNOW ALL MEN by these presents that we [Name of the Bank] of [Name of Country] having our registered office at [Address of Bank] (hereinafter called "the Bank") are bound into the Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, Karachi, Pakistan (hereinafter called "the Purchaser") in the sum of -----, for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns, by these presents.

Sealed with the Common Seal of the Bank this-----day of-----, 2015

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder does not accept the corrections of his Total Bid Price; or
3. If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity:
  - (a) Fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders; or
  - (b) Fails or refuses to execute the Contract Form, when requested. or

We undertake to pay to the Purchaser up to the above amount, according to, and upon receipt of, its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both or all the three above stated conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to -----, the period of bid validity, and any demand in respect thereof should reach the Bank not later than such date.

By [Bank]  
(Title)  
Authorized Representative

**PERFORMANCE SECURITY FORM**

To,

Project Director ASR,  
Project Management Unit,  
Reforms Wing & Special Cell,  
Board of Revenue,  
Government of Sindh  
Karachi.

WHEREAS [Name of the Contractor] hereinafter called "the Contractor" has undertaken, in pursuance of the bid for "SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENT ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT", dated \_\_\_\_\_ 2015, (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the Contract that the Contractor shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor a Guarantee:

THEREFORE WE hereby affirm that we are Guarantor and responsible to you, on behalf of the Contractor, 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 Contractor to be in default under the Contract, and without cavil or argument, any sum or sums as specified by you, 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 \_\_\_\_\_ day of \_\_\_\_\_, 2015, or twenty-eight (28) days of the issue of the Defects Liability Expiry Certificate, whichever is later.

[NAME OF GUARANTOR]

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_  
Seal \_\_\_\_\_



## Technical Evaluation Forms

FORM A1

### COMPANY PROFILE NUMBER OF YEARS IN BUSINESS

Date: -----

*All bidders are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures as required under the bye-laws as a Partnership/Joint Venture.*

1.	Name of firm or consortium of firm (Legal Name):  <i>(In case of Joint Venture (JV), please also provide legal name of each partner)</i>	
2.	Nature of Business:  <i>(Whether the firm is a Corporation, Partnership, Trust etc., show documentary evidence of required nature in business for every year)</i>	
3.	Head Office Address:	
4.	Telephone Fax numbers: E-mail address:	
5.	Place of Incorporation/Registration: Year of incorporation/registration:	
6.	Applicant's authorized representative: Telephone Fax numbers: E-mail address:	
7.	<u>NATIONALITY OF OWNERS.</u>	
	Name:	Country:

**Note:**

Please attach relevant document such as certificate of incorporation / registration

**COMPANY'S PROFILE**

Regular employees on company payroll for last one year.

(ATTACH SEPARATE SHEET FOR EACH FULL TIME TECHNICAL STAFF)

<b>POSITION</b>			
<b>PERSONNEL INFORMATION</b>	<b>NAME</b>		<b>DATE OF BIRTH</b>
	<b>PROFESSIONAL QUALIFICATIONS</b>		
	<b>TECHNICAL/PROFESSIONAL CERTIFICATIONS</b>		
<b>EXPERIENCE</b>	<b>NAME OF EMPLOYER</b>		
	<b>POSITION</b>	<b>FROM</b>	<b>To</b>
<b>PRESENT EMPLOYMENT RECORD</b>	<b>Job Title:</b>		
	<b>Period with firm:</b>		
	<b>Telephone:</b>		<b>Email:</b>
	<b>NTN:</b>		
	<b>Mail Address:</b>		

**Note:**

Please attach relevant document such as degree(s), certificate(s) and any other deemed necessary as proof of claims in CVs. Also please attach the authenticated Payroll of the staff for the last one year.



**SPECIFIC EXPERIENCE**

Completed at least 03 projects of IT Equipment, Hardware & Electronic Equipment (including supply & installation).

*Use a separate sheet for each contract / Consultancy.*

1.	Name of Contract:
	Country:
2.	Name of Procuring Agency, Telephone and Fax Number:
3.	Procuring Agency Address:
4.	Nature of works and special features relevant to the contract: ..... .....
5.	Contract Role (Tick One):  (a) Sole (b) Sub-partner (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract:  Currency..... Currency..... Currency.....
7.	Equivalent in Pak/ Rs.:
8.	Date of Award:
9.	Date of Completion:
10.	Specified Requirements:

**Note:**

Please attach relevant document such as successful completion certificate and any other document deemed necessary as proof of claims

**GENERAL EXPERIENCE**

Completed at least 03 projects of worth Rs. 25 million in IT Equipment, Hardware & Electronic Equipment

*Use a separate sheet for each contract / Consultancy.*

1.	Name of Contract:
	Country:
2.	Name of Procuring Agency, Telephone and Fax Number:
3.	Procuring Agency Address:
4.	Nature of works and special features relevant to the contract: ..... .....
5.	Contract Role (Tick One):  (a) Sole (b) Sub-partner (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract:  Currency..... Currency..... Currency.....
7.	Equivalent in Pak/ Rs.:
8.	Date of Award:
9.	Date of Completion:
10.	Specified Requirements:

**Note:**

Please attach relevant document such as successful completion certificate and any other document deemed necessary as proof of claims





**QUALITY**  
ISO 9001:2008 or equivalent credentials

*Use a separate sheet for each credentials.*

1.	Name of Certificate:
2.	Grant Date:
3.	Expiration Date:
4.	Accreditation body:
5.	Last date of audit/inspection:
6.	Next due date of audit/inspection:

**Note:**

Please attach relevant document such as certificates and any other document deemed necessary as proof of claims

**QUALITY**

Technical/Management credentials

*Use a separate sheet for each credentials.*

1.	Name:
2.	Certificate/Credential of employee:
3.	Credential Number:
4.	Grant Date:
5.	Expiration Date:
6.	Accreditation body:
7.	Last date of renewal:

**Note:**

Please attach relevant document such as certificates and any other document deemed necessary as proof of claims



FORM D1

**FINANCIAL CAPABILITIES**  
**AVERAGE ANNUAL TURNOVER**

Date: -----

YEAR	TURNOVER	INCOME TAX PAID	Name along with Cost of IT Projects Executed/ Undertaken	Liquid Assets Balance
2014-15				
2013-14				
2012-13				

**Note:**

Please attach relevant document such as authenticated audited statements and any other document deemed necessary as proof of claims

**EXTRACT OF PROCUREMENT PLAN**

ADP SCHEME NAMEDLY "AUTOMATION OF STAMPS & REGISTRATION, EXTENSION TO ALL DISTRICTS OF SINDH PROVINCE"  
FOR THE FINANCIAL YEAR 2015-2016

S. No.	Description of Procurement	Quantity (Where applicable)	Estimated Unit Cost (Where applicable) (Millions)	Funds allocated (Million)	Source of Funds (ADPs Non ADPs)	Proposed Procurement Method	Timing of Procurements				Remarks	
							1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr		
01	SUPPLY & INSTALLATION OF IT, HARDWARE AND ELECTRONIC EQUIPMENTS ALONGWITH SUPPORT & MAINTENANCE SERVICES FOR THE PROJECT MANAGEMENT UNIT A.S.R & ALLIED FACILITIES OF STAMPS & REGISTRATION DEPARTMENT			Above 1 Million	ADP	Single Stage Two Envelope						Rule 46(2)



-/sd  
Member R&S  
Board of Revenue, Sindh

CC:-  
• The Sindh Public Procurement Regulatory Authority, Govt. of Sindh, Karachi