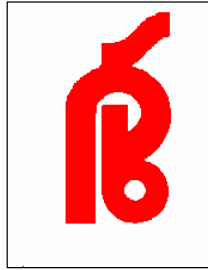


**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**



**PUNJAB & SIND BANK  
COMPUTER AUDIT CELL  
HEAD OFFICE - INSPECTION DEPARTMENT  
6, SCINDIA HOUSE, CONNAUGHT PLACE,  
NEW DELHI**

**RFP No.: HO/CAC/CBS/01    Dated: 06.09.2011**

**REQUEST FOR PROPOSAL (RFP)  
FOR  
INFORMATION SYSTEM AUDIT OF  
CBS-DC/DRS/ATM SWITCH ETC.**

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

## **OBJECTIVES**

PUNJAB & SIND BANK, a leading Public Sector Bank headquartered in New Delhi is implementing many key technology solutions like Core Banking (CBS), Internet Banking (e-banking), onsite / offsite ATMs, Integrated Treasury Systems, RTGS, SFMS, NEFT etc. The bank has chosen FINACLE Software of M/s. INFOSYS Ltd., as the Core Banking Solution and till date implanted CBS in around 89 branches and offices. The bank s Primary Data Centre is located at Vashi, Mumbai & CBS Project Office is located at Naraina, New Delhi. The D/R site is located in Chennai and Dept. of IT, HO is located in New Delhi. ATM Switch is located in Chennai and its DRS at Mumbai.

Punjab & Sind Bank aims to leverage the centralized solution to support its growing business, improve operational efficiency across the counters and multi-delivery channels, enhance focus on customers and is committed to create a Customer Centric Organization with a deep sense of social responsibility .

This RFP seeks to engage an Information Systems Audit Firm ,which has the capability and experience, to conduct a comprehensive Information Systems Audit of its critical IT infrastructure and to make appropriate recommendations, as covered under the Scope of Work . The aim of the RFP is to solicit proposals from qualified bidders for IS Audit assignment.

**This tender is meant for the exclusive purpose of bidding as per the terms & conditions and specifications indicated. It shall not be transferred, reproduced or otherwise used for purposes other than for which it is specifically issued.**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

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## **SECTION-I**

### **INVITATION FOR BID (IFB)**

1. PUNJAB & SIND BANK is interested to conduct Information Systems Audit of the CBS infrastructure and associated Systems of the Bank through a reputed IS Audit firm. Related activities are defined in the scope of work. The scope of the Audit can be modified as per requirement of bank at any time prior to finalization of Audit. The purpose of RFP is to solicit proposals from qualified bidders for IS Audit assignment of CBS & associated infrastructure.
2. PUNJAB & SIND BANK invites separate sealed bids, technical & commercial, from eligible bidders for IS Audit assignment
3. A complete set of RFP for the above purpose can be downloaded from the Bank's Official website [www.psbindia.com](http://www.psbindia.com)
4. The bidder who has downloaded the RFP from the above website, is required to submit a non-refundable fee of Rs 1,000.00 (Rupees One Thousand only) in the form of DD or Banker's Cheque in favour of Punjab & Sind Bank payable at New Delhi at any time within the last date and time of submission of bid, failing of which the bid of the concerned bidder will not be entertained.
5. A complete set of Request for Proposal (RFP) can also be obtained from the following address during office hours on all working days between 10 A.M. to 4 P.M. either in person or by post on submission of a written application along with a non-refundable fee of Rs 1,000.00 / (Rs 500.00 extra in case of request by Courier) in the form of Demand Draft or Banker's Cheque in favour of PUNJAB & SIND BANK payable at New Delhi.

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

The Assistant General Manager,

PUNJAB & SIND BANK,

H.O. Inspection Deptt

2<sup>nd</sup> Floor , 6, Scindia House

New Delhi – 110001

India

Phone No. (91) 011 – 23716646/7

Fax no. (91) 011 - 23714911

Email: [ho.insp@psb.org.in](mailto:ho.insp@psb.org.in)

6. The Bid Details are as follows:

- |    |                                          |                                                                                                                                                                                |
|----|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. | Bid reference                            | : RFP REF. NO.:                                                                                                                                                                |
|    | HO/CAC/CBS/01 DATED:                     |                                                                                                                                                                                |
| B. | Price of RFP                             | : Rs 1,000.00                                                                                                                                                                  |
| C. | Courier Charges                          | : Rs 500.00                                                                                                                                                                    |
| D. | Bid Security Amount                      | : Rs 1,00,000.00                                                                                                                                                               |
| E. | Date of commencement of sale of RFP      | : 06.09.2011 / 11.00 hrs                                                                                                                                                       |
| F. | Date and time for Pre-Bid Conference     | : 07.10.2011 / 11.30 hrs                                                                                                                                                       |
| G. | Place of Pre Bid meeting                 | : PUNJAB & SIND BANK,<br><br>Computer Audit Cell ,<br>Inspection Deptt<br><br>2 <sup>nd</sup> Floor , 6, Scindia House,<br>Connaught Place,<br><br>New Delhi – 110001<br>India |
| H. | Last date and time for sale of RFP       | : 19.10.2011 / 11.00 hrs                                                                                                                                                       |
| I. | Last date and time for submission of BID | : 19.10.2011 / 13.00 hrs                                                                                                                                                       |

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**PUNJAB & SIND BANK**

- J. Date and time of opening Technical Bids : 19.10.2011 / 15.00 hrs
- K. Date of opening Commercial Bids : To be notified suitably to technically qualified bidders
- L. Place of submission of Bids : PUNJAB & SIND BANK,  
Computer Audit Cell  
, Inspection Deptt  
2<sup>nd</sup> Floor , 6, Scindia House,  
Connaught Place,  
New Delhi – 110001  
India
- M. Place of opening of Bids : PUNJAB & SIND BANK,  
Computer Audit Cell , Inspection Deptt  
2<sup>nd</sup> Floor , 6, Scindia House, Connaught  
Place, New Delhi – 110001 India
- N. Address for communication : PUNJAB & SIND BANK,  
Computer Audit Cell , Inspection Deptt  
2<sup>nd</sup> Floor , 6, Scindia House, Connaught  
Place, New Delhi – 110001 India
7. All bids (Technical & Commercial) must be submitted at the same time giving full particulars in separate sealed envelopes at the bank s address as mentioned above, within the time period specified as above.
8. All bids must be accompanied by a bid security as specified in the RFP and must be delivered at the above address on or before specified date and time indicated above.
9. Technical Bids will be opened in the presence of the bidders representatives who choose to attend on the specified date and time. Technically qualified bids will be taken up for further processing and suitable date & time will be advised to the qualified bidders for opening of commercial bids. Commercial Bids of

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qualified bidders will be opened in the presence of the technically qualified bidder s representatives on separate date and time as mentioned above.

10. No further discussion/interface will be granted to bidders whose bids have been technically disqualified.

11. Non attendance at the Bid opening will not be a cause for disqualification of a bidder.

12. Punjab and Sind Bank reserves the right to accept or reject in part or full any or all the offers without assigning any reasons whatsoever.

13. Interested bidders may obtain further information from PUNJAB & SIND BANK, Computer AuditCell, H.O. Inspection Department , 6 Scindia House, Connaught Circus, New Delhi – 110001.

**ASSISTANT GENERAL MANAGER (I)**

**PUNJAB & SIND BANK**

## **SECTION II**

### **INSTRUCTION TO BIDDERS (ITB)**

#### **I N D E X**

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**SECTION II**

**INSTRUCTION TO BIDDERS (ITB)**

**1. INTRODUCTION**

Punjab & Sind Bank, a body corporate established under the Banking Companies (Acquisition and Transfer of Undertaking) Act 1970, having its Head Office at Bank House, 21 Rajendra Place, New Delhi, India, hereinafter called “The Bank / The Purchaser” interchangeably, which term or expression unless excluded by or repugnant to the context or the meaning thereof, shall be deemed to include its successors and permitted assigns, intends to issue this bid document, hereinafter called Request for Proposal or RFP, to the vendors, hereinafter called “Bidder /Information Systems Auditor/ Vendor” interchangeably, for the Information Systems (IS) audit of “Core Banking Solution”, Surround Applications and related infrastructure, Network, Data Center and Disaster Recovery Site etc., from eligible bidders satisfying the eligibility criteria set out in ensuing sections of this document.

This tender is meant for the exclusive purpose of bidding as per the terms & conditions and specifications indicated. It shall not be transferred, reproduced or otherwise used for purposes other than for which it is specifically issued.

The RFP for all intents and purposes is final. However Bank reserves the right to bring about any changes in requirements/scopes and the same will be communicated to the bidders well in advance so as to allow the bidders sufficient time to prepare their proposal.

**2. ELIGIBILITY CRITERIA**

Before submitting the bid, the bidder must ensure that it fulfils the following eligibility criteria.

2.1.1 Bidder must submit a detailed statement of facts and profile of the company, Official Website details along with the bid (Enclose Annexure – I(a) )

2.1.2 The bidder should be a government organization/ Public sector unit/ Partnership firm / Limited Company / Private Limited Company having its Registered Office in India. Relevant documents of registration should be

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submitted as part of the proposal. For the purpose of this bid any consortium will not be acceptable. (Enclose Annexure – I(b) )

2.1.3 The bidder organization should have been in existence for at least 3 years as on the last date of bid submission. The bidder should be empanelled by CERT - In as IS Audit Origination for the period valid up to 31.03.2011. (Related documents should be submitted as part of the proposal). (Enclose Annexure – I(b) )

2.1.4 The bidder should have a minimum turnover of Rs. 2 ( TWO) Crores per year in the last two years ( from operations in India). The last two financial years audited Balance Sheets and Profit & Loss Account reports shall be submitted along with the BID. Organizations where balance sheet/PL A/c is not prepared, bidder should submit audited Income /Expenditure & Cash Flow statement for the last two years. (Enclose Annexure –I (c) )

2.1.5 The bidder should have made net profits in succession for the past 3 years. The relevant documents are to be submitted as part of the proposal.(Enclose Annexure–I (c) )

2.1.6 The bidder should not have been blacklisted by any Govt. Department /PSU/PSE or Banks or the bidder/firm is otherwise not involved in any such incident with any concern whatsoever , where the job undertaken /performed and conduct has been questioned by any authority , which may lead to legal action . Self – declaration (Annexure XII) to that effect should be submitted along with the technical Bid. (Enclose Annexure –I (d) )

2.1.7 To ensure audit independence, the bidder should not be a vendor/consultant for supply/installation of Hardware/Software components of the Bank or involved in implementing Security & Network infrastructure of the Bank , but excluding IS Audit Services , either directly, or indirectly through a consortium, in the past three years to Punjab & Sind Bank. However, the Bank reserves the right to decide if any of the activities mentioned above affects the auditor s independence or not for the current audit assignment at its own discretion. (Enclose Annexure –I (d) )

2.1.8 The Core Audit team assigned for I.S. Audit of the Auditee, should have at least TEN qualified professionals with qualifications such as CGEIT (Certified in the Governance of Enterprise IT) CISA, CISSP,CCNA, CCNE ,ISO 27001/BS7799 Lead Auditor, OCM & OCP , out of which at least 2 persons should be CISA qualified (including team leader) Bidder must warrant that these key project personnel

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to be deployed in this project have been sufficiently involved in similar projects in the past. Bidders should provide information about such key project personnel who are proposed to be part of the IS Audit team along with the Bid Document. Bidder should ensure that the members of Core Audit team are actively involved in the conduct of the Audit throughout the period of the contract. (Enclose Annexure –I (e) , Annexure III, Annexure IV)

2.1.9 All members proposed by the bidder should be employees on the rolls of the bidding organization. No part of the engagement shall be outsourced by the selected bidder to third party vendors.(Enclose Annexure –I (e) , Annexure III, Annexure IV)

2.1.10 The bidder should have conducted minimum three IS audit of Data Centre/DRS etc. connected with minimum 200 branches /Offices during last 2 years out of which at least one audit should be of a bank in India . The proposal should include certificates stating successful completion of the mentioned audit engagements. The conduct of IS Audit as mentioned above should include :-

I. Vulnerability assessment of servers/security equipment/ network equipment

II. External attack and penetration test of equipments exposed to outside world through internet.

III. Verification of compliance of systems and procedures as per Organization s IT Security Policy/ guidelines.(conduct of audit of any one activity will not be considered as complete IS Audit of data center/DRS) (Enclose Annexure –I (f) , Annexure II)

### **3. TWO BID SYSTEMS TENDER**

3.1 Separate Technical & Commercial Bids in duplicate duly sealed and super scribed „BID for IS Audit - Technical and „BID for I S Au dit - Commercial shall be submitted as per bid details given in the RFP.

3.2 The bidder has also to submit a soft copy of the complete technical bid in MS-word 2000 format on a CD super scribing “Soft Copy of Technical Bid against RFP–dated along with the technical bid. The bidder will not furnish the softcopy of the commercial bid.

3.3 The bidder will take care of submitting the Bid properly filed so that the papers are not loose. The Bids, which are not sealed as indicated above, are also liable for rejection.

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3.4The tender not submitted in the prescribed format or submitted incomplete in details is liable for rejection. The Purchaser is not responsible for non receipt of quotation within the specified date and time due to any reason including postal delays or Holidays.

**3.5 ENVELOPE –I (TECHNICAL BID)**

3.5.1The technical bid will be evaluated for technical suitability as well as for other terms and conditions. Previous experience, methodology, professional skill sets available and allocated for the project, number/nature of projects handled by the bidder for the Indian Banking sector and Public sector Banks in particular, etc will be taken into consideration while evaluating the technical bid

3.5.2 It is mandatory to provide the technical details in the exact format of technical Specifications given in the RFP. Correct technical information of the Audit methodologies being offered must be filled in. Filling of the information using terms such as “OK”, “Accepted”, “Noted”, “Compliance” is not acceptable. The Purchaser reserves the right to treat offers not adhering to these guidelines as unacceptable.

3.5.3 All the formats as specified in ANNEXURES I (a,b,c,d,e,f) ,II,III,IV,VI,VII ,X & XII need to be filled in exactly as per the proforma given and any deviation is likely to cause rejection of the bid. The relevant information regarding IS Audit of CBS DC, DRS etc. conducted by the bidder should be submitted along with the offer. Non submission or partial submission of the information along with the offer could result in disqualification of the bid of the concerned bidder.

3.5.4 The Purchaser shall not allow/permit changes in the technical bid once it is submitted.

3.5.5 The offer may not be evaluated by the Purchaser in case of non adherence to the format or partial submission of technical details as per the format given in the offer.

3.5.6Bank may at its discretion abandon the process of the selection of IS Auditor anytime before notification of award

3.5.7The Technical Bid must not contain any price information .

3.5.8The Technical Bid shall comprise of

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- i. Covering letter in Company s letter head duly signed by authorized signatory with name, title and seal (Copy of letter of Authorization to be submitted).
- ii. Table of Contents (List of documents enclosed)
- iii Duly Filled up ANNEXURES I(a),I(b),I(c),I(d),I(e),I(f) ,II,III,IV, X & XII with all the supporting documents as required in the clause 2 ,eligibility criteria stated above..
- iv. Bid Form(Annexure- VI)
- v. Bid Security Form ( Annexure VII ) / Demand Draft
- vi. Power of Attorney of the authorized signatory

### **3.6 ENVELOPE-II (COMMERCIAL OFFER)**

The Price schedule should be submitted in commercial Bid Only . The price bid should contain complete cost of the Audit as per the RFP.

The Price schedule should be furnished as per RFP in the format as per the ANNEXURE V

Price must be quoted in Indian Rupees Only.

The price bid should be as per the Services required to meet the terms & conditions and specifications of the RFP.

The Commercial Bid should give all relevant price informations and should not contradict the Technical Bid in any manner. The price quoted should be All inclusive and except for Service Tax, which has to be mentioned separately Miscellaneous expenses like halting , conveyance etc. should be included in the TOTAL PRICE and the same would not be considered separately

It is absolutely essential for the bidders to quote the lowest price in their own interest.

### **4. NON-TRANSFERABLE TENDER**

This tender document is not transferable. Only the bidder, who has purchased this tender in its name or submitted the necessary RFP price (for downloaded RFP) will be eligible for participation in the evaluation process.

### **5. ALTERNATIVE OFFERS**

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

Each bidder should not submit more than one Bid.

#### **6. ERASURES OR ALTERATIONS**

The offers containing unauthenticated erasures or alterations will not be considered. Therefore, there should be no unauthenticated hand written material, corrections or alterations in the offer. If such unauthenticated erasures or alterations are present these should be signed in full by the person or persons authorized for signing the bid. Any deviation may lead to the rejection of the bid.

#### **7. COST OF BIDDING**

The Bidder should bear all the costs associated with the preparation and submission of their bid and Bank will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Bids arriving beyond the stipulated time will not be accepted. No bid shall be rejected at bid opening, except for late bids, open bids.

#### **8. CONTENTS OF RFP:**

8.1 The requirements, bidding procedures and contract terms are prescribed in the RFP. In addition the RFP includes:

- a) Invitation for Bid (IFB)
- b) Instruction to Bidders (ITB)
- c) Condition of Vendor Selection (CVS)
- d) Conditions of Procurement (CP)
- e) Schedule of Requirements/ Specifications /Formats

8.2 The Bidder is expected to examine all instructions, annexures, specifications terms and conditions in the Bidding Documents. Failure to furnish all information required by the RFP or submission of a bid not substantially responsive to the RFP in any aspect will be at the Bidder's risk and may result in the rejection of its bid.

#### **9. CLARIFICATION OF RFP**

A prospective bidder requiring any clarification of the RFP may notify the Purchaser in writing or by fax/e-mail at the Purchaser's mailing address indicated in the

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

invitation For Bid (IFB). The Purchaser will respond in writing to any request for clarification of the RFP which it receives up to 2(two) working days prior to the date of Pre- Bid Meeting.

#### **10. PRE-BID MEETING:**

10.1The prospective bidders who have purchased a copy of the RFP or submitted the bid price(for downloaded RFP) may like to attend a pre-bid meeting to be held as indicated in the Invitations for Bids after publication of RFP and well before the last date for receipt of bids. Upto a maximum of 2 (two) representatives of each prospective bidder will be permitted to attend the pre-bid meeting. However the Purchaser, at its discretion, may permit any additional representative of any prospective bidder to attend the pre-bid meeting.

10.2The purpose of the meeting is to clarify issues and to answer questions on any matter that may be raised up to that stage. The issues/questions to be raised must be in writing. The Purchaser will have liberty to invite its technical consultant or any outside agency, wherever necessary, to be present in the pre-bid meeting to reply to the technical queries of the bidders in the meeting.

10.3Any modification of the RFP, which may become necessary as a result of the Pre-bid Meeting, shall be made by the Purchaser exclusively through the issue of an Addendum and will be sent to all prospective bidders who have purchased the RFP, allowing at least 7 days time prior to the last date for receipt of bids.

10.4Non-attendance at the Pre-bid Meeting will not be a cause for disqualification of a bidder.

#### **11. AMENDMENT OF RFP:**

11.1At any time prior to the deadline for submission of bids, the Purchaser, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the RFP by addendum

11.2All prospective Bidders who have purchased the RFP will be notified of the amendment in writing or by fax or e-mail or through addendum and will be binding on them.

**PUNJAB & SIND BANK**

11.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bid, the Purchaser, at its discretion, may extend the deadline for the submission of bid.

**12. LANGUAGE OF BID:**

The bid prepared by the Bidder, all correspondence and documents relating to the bid exchanged by the Bidder & the Purchaser shall be written in English.

**13. BID SECURITY:**

13.1 The bidder shall furnish as part of its bid, bid security of Rs 1, 00,000.00 (Rupees one lac only)

13.1.1 The bid security is required to protect the Purchaser against risk of bidder's conduct during the period of bid validity.

13.2 The bid security shall be denominated in INDIAN RUPEES only and shall be any one of the following forms.

13.2.1 A bank guarantee issued by a Scheduled Indian Bank or a Foreign bank located in India in the Form (Annexure-VII) provided in the RFP and valid for forty five (45) days beyond the validity of the bid; or

13.2.2 A Demand Draft or Pay Order issued in favor of "Punjab & Sind Bank" and payable at New Delhi.

13.3 Any bid not secured in accordance with ITB Clause-13.1 and 13.2 above will be rejected by the Purchaser as non-responsive.

13.4 Bid shall remain valid for 180 days after the date of opening of Technical Bid prescribed by the Purchaser, pursuant to ITB clause-19. Therefore, the bid security will have to be submitted for a period of (180+45) days. A bid valid for a shorter period shall be rejected by the Purchaser as non responsive.

13.5 The bid security may be forfeited if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form.

13.6 The bid security of the unsuccessful bidders will be returned after the completion of the process, whereas the bid security of the finally selected bidder will be returned after the submission of the Performance security (Annexure VIII).

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

13.7 In exceptional circumstances, the Purchaser may solicit the Bidders consent to an extension of the period of validity. The request and the responses thereto shall be made in writing or by fax/email. The bid security provided under ITB Clause-13 shall also be suitably extended. A bidder acceding to the request will neither be required nor be permitted to modify its bid. A bidder may refuse the request without forfeiting its bid security. In any case the bid security of the bidders will be returned after the completion of the process.

#### **14. FORMAT AND SIGNING OF BID**

14.1 The Bidder shall prepare two copies each of the Technical & Commercial bid clearly marking each "Original Bid" and "Copy Bid" as appropriate. In the event of any discrepancy between them, the original shall govern. Original copy of bid security should be submitted with the original bid.

14.2 The original bid and copy of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorised to bind the Bidder to the Contract. All pages of the Bid except for un-amended printed literature shall be signed by the person or persons signing the bid.

14.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the bidder, in which case such corrections shall be signed by the person or persons signing the bid.

#### **15 SUBMISSION OF BID:**

15.1 The Bidders shall seal the original and copy bids separately.

15.1.1 There will be 2 outer packets named as "Original Bid" & "Copy Bid"

15.1.2 Outer Original Bid packet should contain an original sealed Technical bid for IS AUDIT and the original bid security as well as the sealed original Commercial Bid

15.1.3 Copy Bid Packet should contain sealed Copy of the Technical bid for IS AUDIT & the sealed Copy of the commercial Bid.

15.2 The two Outer packets marked as "ORIGINAL BID" "COPY BID" and shall also be duly marked as "DO NOT OPEN BEFORE 19.10.2011 / 15:00hrs".

15.3 In addition to the above marking, each packet must be super-scribed with the following information:

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

a) RFP Reference Number

b) BID for IS AUDIT as stated above in point no. 15.1.

c) Name and Address of Bidder

This will enable the Purchaser to return the bid unopened in case it is declared unacceptable for any reason whatsoever.

15.4 All the inner and outer envelopes shall be addressed to the Purchaser at the address given below:

The Assistant General Manager(I)

PUNJAB & SIND BANK,

H.O. Inspection Department,

6, Scindia House, Connaught Circus,

New Delhi - 110001

15.5 If the outer packets are not sealed and marked as required by ITB Clause-15.1 & 15.2, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

15.6 If any inner envelope is found to contain both technical and commercial bids, then that bid will be rejected summarily. If any outer envelope is found to contain only the Technical Bid or Commercial bid, it will be treated as incomplete and will be liable for rejection.

15.7 Telex, Cable, Facsimile or E-mail Bids will be rejected.

**16. DEADLINE FOR SUBMISSION OF BID:**

Bids must be received by the Purchaser at the address specified under ITB Clause 15.4 no later than the time and date specified in the IFB. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the bids will be received up to the appointed time on the next working day.

The Purchaser may, at its discretion, extend the deadline for submission of Bids by amending the RFP in accordance with ITB Clause-11, in which case all rights and

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obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

**17. LATE BID:**

Any bid received by the Purchaser after of the deadlines for submission of bids prescribed by the Purchaser, in Invitation for Bid, will be rejected and returned unopened to the Bidder.

**18. MODIFICATION AND WITHDRAWAL FOR BID:**

18.1 The Bidder may modify or withdraw its bid after the bid s submission, provided that written notice of the modification including substitution or withdrawal of the bids is received by the Purchaser prior to the deadline prescribed for submission of bids.

18.2 The Bidder s modification or withdrawal notice shall be prepared, sealed, marked and despatched in accordance with the provisions of ITB Clause –15. A withdrawal notice may also be sent by fax/e-mail but followed by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

18.3 No bid may be modified subsequent to the deadline for submission of Bids

18.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of the bid during this interval may result in the Bidder s forfeiture of its Bid security, pursuant to ITB Clause – 13.5

**19. BID OPENING:**

19.1 The Purchaser will open only the Technical Bids as per the schedule mentioned in IFB. The Commercial bids for technically qualified bidders only will be opened on a later date subsequent to the technical evaluation. The Purchaser will notify the date and time of opening of the Commercial bids to the technically qualified bidders.

19.2 Attendance of all the authorised representatives of the bidders who are present at Bid Opening will be taken in a register against name, name of the company and with full signature.

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19.3 Each Bid will be numbered serially, signed and dated by the Officers of the Purchaser, on the first page. Each page of the bid will also be initialled with date, by two Officers of the Purchaser.

19.4 The following details will be announced at the bid opening:

- a) Bidder s names,
- b) Bid Modifications or withdrawals,
- c) Bid Prices & Discounts if any (in case of Commercial bid opening),
- d) Presence or absence of Bid Security (in case of Technical bid opening) and such other details as the Purchaser, at its discretion, may consider appropriate.

19.5 Alterations in the bids, if any, made by the bidder / companies would be signed legibly to make it perfectly clear that such alterations were present on the bids at the time of opening. It would be ensured that alterations are signed by the bidder/company s executive who has signed the bid or by the bidder/company s representative authorised by the executive who has signed the bid.

19.6 Wherever any erasing or cutting is observed, the substituted words would be encircled and initialled by the bank officer singly and the fact that such erasing / cutting of the original entry were present on the bid at the time of opening should be recorded.

19.7 An “on the spot statement” giving details of the bids opened and other particulars as read out during the opening of the bids will be prepared.

19.8 Bids (and modifications sent pursuant to ITB Clause-18.2) that are not opened and read out at Bid opening shall not be considered further for evaluation, irrespective of the circumstances. Such Bids will be returned unopened to the Bidders.

19.9 Commercial bids of those bidders who have not been technically qualified will be returned unopened to the concerned bidders at their recorded address.

19.10 The Purchaser must prepare proceedings of the bid opening.

### **20 CLARIFICATIONS OF BID:**

To assist in the scrutiny, evaluation and comparison of offers the Purchaser may, at its discretion, ask some or all bidders for clarification of their offer.

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The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

**21 PRELIMINARY EXAMINATION:**

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

21.1.1 Bids from Agents without proper authorisation from the parent bidder shall be treated as non-responsive.

21.2 Arithmetical errors if any will be rectified on the following basis.

21.2.1 If there is discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.

21.2.2 If there is a discrepancy between words and figures, the amount in words will prevail.

21.2.3 If the bidder does not accept the correction of errors as per ITB clause 21.2.1 & ITB Clause 21.2.2, its bid will be rejected.

21.3 The Purchaser, at its discretion, may waive any minor informality, nonconformity or irregularity in a Bid, which does not prejudice or affect the relative ranking of any Bidder. This shall be binding on all bidders and the Purchaser reserves the rights for such waivers.

21.4 Prior to the detailed evaluation, pursuant to ITB Clause-22, the Purchaser will determine the substantial responsiveness of each bid to the RFP. For purposes of these clauses, a substantially responsive bid is one, which conforms to all the terms & conditions of the RFP without material deviations. Deviations form or objections or reservations to critical provisions such as those concerning Bid Security, Performance Security, Warranty, Force Majeure, Applicable Law and Taxes & Duties will be deemed to be material deviation. The Purchaser's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.

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21.5 If a Bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the bidder by correction of the non- conformity.

**22 EVALUATION OF BIDS:**

22.1 The Purchaser will evaluate and compare the bids, which have been determined to be substantially responsive, pursuant to ITB Clause-21. Punjab & Sind bank in its sole/absolute discretion can apply whatever criteria deemed appropriate in determining the responsiveness of the proposal submitted by the respondents. The Bank may reject any/all proposals at any stage without assigning any reason thereof.

**22.2 EVALUATION OF TECHNICAL BIDS:**

22.2.1 The Technical Bids opened pursuant to ITB Clause-19 will be evaluated by the Purchaser on the basis of following criteria:-

- a. Meeting of the eligibility criteria as stated in clause ITB clause 2.
- b. Completeness of the Technical bid in all respects and availability of all information/details asked for vide ITB Clause-3.5.
- c. Full Responsiveness & commitment of the bidder towards scope and deliverables as per RFP.
- d. Experience ,Expertise & Capabilities of the IS Auditor to meet all the requirements specified in this document for undertaking the various IS Audit assignments of the Offices of the Bank.

**22.3 EVALUATION OF COMMERCIAL BIDS:**

22.3.1 The Bids technically qualified pursuant to ITB Clause-22.2 will be commercially evaluated by the Purchaser and the evaluation will take into account the following factors:

- a) Price of the Services offered as per Annexure V.
- b) The cost to the Purchaser of establishing the minimum service facilities , if any as outlined elsewhere in the RFP or miscellaneous expenses incurred like travelling , halting, if any should not be quoted separately and should be added to the TOTAL PRICE offered in the commercial bid.

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22.3.2 Evaluation of all eligible bidders will be done in Indian Rupees only.

22.3.3 Evaluation will not be based on any conditional/additional discount.

22.3.4 The prevailing Purchase preference policy of Government of India for Public Sector Enterprises (PSE) if any will be applicable. Preference will be given to PSEs at the lowest acceptable price.

**23 CONTACTING THE PURCHASER:**

23.1 No Bidder shall contact the Purchaser on any matter relating to its Bid, from the time of the bid opening to the time of final selection of the vendor.

23.2 Any effort by a Bidder to Influence the Purchaser in the Purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

**24 POST QUALIFICATION:**

24.1 In the absence of pre-qualifications, the Purchaser will determine to its satisfaction whether the Bidder selected is qualified to perform the contract.

24.2 The determination will take into account the Bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate including details of experience and records of past performance.

24.3 An affirmative determination will be prerequisite for selection. A negative determination will result in rejection of the Bidder's bid.

**25 PURCHASER'S RIGHT :**

25.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action. Bank reserves the right to modify any terms, conditions and specifications of the RFP.

25.2 Bank reserves the right to obtain revised price bids from the bidder with regards to changes in RFP clauses or if the Bank is not satisfied with the price offered.

25.3 Bank reserves the right to accept any Bid in part or whole.

**26 SIGNING OF CONTRACT:**

26.1 At the time when the Purchaser notifies the Bidder that its bid has been accepted, the Purchaser will send the Bidder the Contract Form (Annexure-IX) provided in the RFP, incorporating all agreements between the parties.

26.2 Within 21(Twenty One) days of receipt of Contract Form, the bidders shall sign and date the contract and return it to the Purchaser along with the required Performance Security.

26.3 Bank reserves the right to select the next ranked bidder if the selected bidder withdraws his proposal after selection or at the time of finalization of the contract or disqualified on detection of wrong or misleading information in the proposal.

26.4 In case the bidder fails to comply ITB Clause 26.1 and 26.2 or in case the bidder withdraws his proposal after selection as per ITB Clause 26.3 the bid security of the bidder will be forfeited.

**27 NO COMMITMENT TO ACCEPT LOWEST OR ANY TENDER:**

27.1 The Purchaser shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers including those received late or incomplete offers without assigning any reason whatsoever.

27.2 Purchaser reserves the right to make any changes in the terms and condition of the purchase.

27.3 Purchaser will not be obliged to meet and have discussions with any vendor and/or to listen to any representations.

**SECTION III**

**CONDITIONS OF VENDOR SELECTION (CVS)**

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## **SECTION III**

### **CONDITIONS OF VENDOR SELECTION (CVS)**

#### **1 DEFINITION:**

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

(a) “The Contract” means the Contract entered into between the Purchaser and the vendors, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein.

(b) “The Solution/Services ” means the IS AUDIT SERVICES , which the vendor is required to provide to the Purchaser in terms of the contract between the vendor and the Purchaser under the Contract.

(c) “The Purchaser” means PUNJAB & SIND BANK.

(d) “The Vendor” means the firm selected by the Purchaser for providing IS Audit services

(e) “Day” means calendar day.

#### **2 GOVERNING LANGUAGE:**

The governing language of the contract shall be English. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in this language.

#### **3. APPLICABLE LAW:**

The contract shall be interpreted in accordance with the laws prevalent in India.

#### **4. NOTICES:**

4.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable /fax/email and confirmed in writing to the other party s address specified below.

**Purchaser:**

**The Assistant General Manager (I)**

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**PUNJAB & SIND BANK,**

**H.O. Inspection Department,**

**6, Scindia House, Connaught Circus,**

**New Delhi - 110001**

**Vendor: To be filled in at the time of contract signing**

4.2 A notice shall be effective when delivered or on the notice s effective date, whichever is later.

**5. PERFORMANCE SECURITY:**

5.1 The selected vendor has to furnish performance security (Annexure – VIII) to the Purchaser for an amount of Rs 1 Lac only at the time of signing the contract.

5.2 The performance security should be furnished to the Head Office of the Purchaser.

5.3 The performance security is required to protect the Purchaser against risk of

selected vendors conduct during the Contract period.

5.4 The performance security shall be denominated in INDIAN RUPEES only and shall be any one of the following forms.

5.4.1 A bank guarantee issued by a Scheduled Indian Bank or a Foreign bank located in India in the Form (Annexure-VIII) provided in the RFP.or

5.4.2 A Demand Draft or Pay Order issued in favor of “Punjab & Sind Bank” and payable at New Delhi

5.5 The Performance Security will valid for 12 months from the date of signing the contract. However, depending upon the requirement of the Bank the vendor has to extend the period of performance security.

5.6 The Performance Security of the vendor may be invoked in case of failure of the vendor to meet the requirements of the Bank under the RFP.

5.7 The format of the said Performance Security is enclosed as Annexure VIII of section V (Schedule of requirements).

## **6. VENDOR'S INTEGRITY:**

The vendor is responsible for and obliged to conduct all contracted activities in accordance with the contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

## **7. VENDOR'S OBLIGATIONS:**

The vendor is obliged to work closely with the Purchaser's staff, act within its own authority and abide by directives issued by the Purchaser during the IS AUDIT activities.

7.2 The vendor is responsible for managing the activities of its personnel and will hold itself responsible for any misdemeanors.

7.3 The vendor is under obligation to provide IS AUDIT services as per the contract to various Offices of the Bank.

7.4 The vendor will treat as confidential all data and information about the Purchaser, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Purchaser

## **8 PROJECT MANAGEMENT:**

The Bank and the vendor will nominate a Project Manager immediately on acceptance of the order, who will be the single point of contact for the project. However, for escalation purpose, details of other persons will also be given.

## **9 USE OF CONTRACT DOCUMENTS AND INFORMATION**

9.1 The Vendor shall not, without the Purchaser's prior written consent, disclose the Contract or any provision thereof or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Vendor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence & shall extend only as far as may be necessary for purposes of such performance.

9.2 The Vendor shall not, without the Purchaser's prior written consent, make use of any document or information except for purposes of performing the Contract .

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9.3 Any document, other than the Contract itself, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Vendor's performance under the Contract if so required by the Purchaser.

**10 PATENT RIGHT:**

10.1 The Vendors shall indemnify the Purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Software package or any part thereof in India and abroad.

10.2 In the event of any claim asserted by the third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the solution or any part thereof in India and abroad, the Vendor shall act expeditiously to extinguish such claims. If the Vendor fails to comply and the Purchaser is required to pay compensation to a third party resulting from such infringement, the Vendor shall be responsible for the compensation including all expenses, court costs and lawyer fees. The Purchaser will give notice to the Vendor of such claims, if it is made, without delay.

**11 FORCE MAJEURE:**

11.1 The vendor shall not be liable for forfeiture of its performance Security, liquidated damages or termination for default, if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of force Majeure.

11.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the vendor and not involving the Vendor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

11.3 If a Force Majeure situation arises, the Vendor shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Vendor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**12 TERMINATION FOR CONVENIENCE:**

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12.1 The Purchaser, by written notice sent to the vendor, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of work under the Contract is terminated and the date upon which such termination becomes effective.

**13 RESOLUTION OF DISPUTES:**

13.1 The Purchaser and the vendor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising out of or in connection with the Contract.

13.2 If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the vendor have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms. Such disputes or differences shall be settled in accordance with the Arbitration and Conciliation Act, 1996. Where the value of contract is above Rs.1 crore, the arbitral tribunal shall consist of 3 arbitrators, one each to be appointed by the Bank and the Vendor. The third arbitrator shall be chosen by mutual discussion between the Bank and the Vendor.

13.3 The arbitration proceedings shall be held at New Delhi, India, and the language of the arbitration proceedings shall be English.

13.4 The decision of majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration Proceedings will be paid as determined by arbitral tribunal. However, expenses incurred by each party in connection with the preparation, presentation, etc., of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party; and

13.5 Where the value of the contract is Rs.1 crore and below, the disputes or differences arising shall be referred to the sole arbitrator. The sole Arbitrator shall be appointed by agreement between the parties.

**14 CONTRACT AMENDMENT:**

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**15 ASSIGNMENT:**

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The vendor shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

**16 CORRUPT OR FRAUDULENT PRACTICES:**

16.1 As per CVC directives it is required that Bidders/Suppliers/Contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy;

i) "Corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution;

And

ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of contract to the detriment of the Purchaser and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

16.2 The Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

16.3 The Purchaser will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if at any time it determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a contract.

**17. PROJECT SCHEDULE:**

The selected vendor has to depute its officials at Computer Audit Cell, HO, New Delhi within 10 days from the date of signing of the contract, for holding a formal meeting. During the said meeting the vendor has to give a brief technical overview / presentation regarding the technical methodology being adopted by them to conduct the said audit.

The vendor has to maintain the schedule time frame as mentioned below:-

The timeframe for completion for Phase I of the project would be maximum 6 weeks

The time frame for completion for Phase II would be maximum 2 weeks

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An exercise to review the compliance with the findings and recommendations of IS Audit had to be undertaken by the vendor (Phase-III). This exercise would be undertaken preferably within 180 days from the date of completion of phase II. However, Final date for the start of compliance Audit will be informed by the Bank in due course of time.

The Final ISA certificate is to be issued within a week of Audit Compliance Review.

#### **18. TERMS OF PAYMENT:**

18.1 The Vendor's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate and services performed and by documents submitted and upon fulfilment of other obligations stipulated in the Contract.

18.2 Payments shall be made promptly by the Purchaser but in no case later than sixty (60) days of submission of an invoice/claim supported by all required documents by the Vendor.

18.3 Payment will be made to the Vendor in Indian Rupees only.

18.4 Payment Schedule: -

Payment will be made on completion of following milestones:

50% after completion of PHASE-I

30% after completion of PHASE-II

20% after completion of PHASE-III

\*\* TDS would be deducted at source for any payment made by the BANK

as per the prevailing Rules of Government of India.

#### **19. INDEMNITY:**

19.1 The bidder (Contractor) will indemnify the Bank against all actions, proceedings, claims, suits, damages and any other expenses for causes attributable to the vendor.

19.2 The total liability of the selected bidder under the contract will not exceed the total cost of the project.

**20. CHANGE OF ORDER:**

20.1 The purchaser may at any time, by written order given to the vendor make changes within the general scope of the purchase order in any one or more of the following:

- a) The Places of IS Audit
- b) The Services to be provided by the vendor.

20.2 If any such changes causes an increase or decrease in the cost of, or the time required for the vendors performance of any provisions under the contract, an equitable adjustment shall be made in the contract price or delivery schedule, or both and the contract shall accordingly be amended. Any claims by the vendor for adjustment under this clause must be asserted within 30 days from the date of the vendor s receipt of the purchaser s change order.

**21. DELAY IN VENDORS PERFORMANCE:**

21.1 Performance of the services shall be made by the vendor in accordance with the time schedule specified by the purchaser in CVS clause 17.

21.2 If at any time during performance of the purchase order, the vendor should encounter conditions impeding timely performance of the services, the vendor shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its causes. As soon as practicable after receipt of the vendors notice, the purchaser shall evaluate the situation and may at its discretion extend the vendors time for performance, with or without liquidated damages in which case the extension shall be ratified by the parties by amendment of the contract.

21.3 Except as provided under CVS clause 11, a delay by the vendor in its performance of delivery obligations, shall render the vendor liable for imposition of liquidated damages, pursuant to clause 22, unless an extension of time is agreed upon pursuant to clause 25 without the application of liquidated damages.

**22 LIQUIDATED DAMAGE**

Subjected to CVS clause 11, if the vendor fails to deliver or perform the services within the time period(s) specified in the contract, the Purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% of the delivered price of

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the contract or under performed services for each week or part thereof of delay until actual delivery or performance upto a maximum deduction of 10% of the contract price. Once the maximum is reached the Purchaser may consider termination of the contract pursuant to CVS Clause 12 and the Performance Security submitted may be invoked.

### **23. TAXES & DUTIES:**

23.1 The vendor will be entirely responsible to pay all taxes including corporate tax, income tax, license fees, duties etc. except Service Tax in connection with delivery of the services at site

23.2 Wherever the laws and regulations require deduction of such taxes at the source of payment, the purchaser shall effect such deductions from the payment due to the vendor. The remittance of amount so deducted and issue of certificate for such deductions shall be made by the Purchaser as per the laws and regulations in force.

23.3 Service Tax if any , which will be applicable should be clearly mentioned separately which will be paid by the Bank on actual basis on production of proof.

23.4 Nothing in the contract shall relieve the vendor from his responsibility to pay any tax that may be levied in India on income and profits made by the vendor in respect of this contract.

### **24. SITE READINESS:**

The vendor may perform a site inspection at its own cost to verify the appropriateness

of the sites/facilities before start of the Audit .

### **25. DELIVERY SCHEDULE:**

The delivery of the Reports of Phase I & II should be effected within 8 weeks of placement of purchase order.

### **26. ORDER CANCELLATION:**

The purchaser reserves the right to cancel the order in the event of one or more of the following circumstances.

26.1 Delay in start of Audit for a period of 30 days from the date of purchase order.

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26.2 Breach by the vendor of any of the terms & conditions of the tender.

26.3 If the vendor goes into liquidation voluntarily or otherwise

26.4 In addition to the cancellation of purchase order, the purchaser reserves the right to forfeit the Performance security deposit/performance guarantee submitted by the vendor.

**27 PUBLICITY:**

Any publicity by the vendor in which the name of the Purchaser is to be used should be done only with the explicit written permission of the Purchaser.

**SECTION IV**  
**CONDITIONS OF PROCUREMENT (CP)**  
**I N D E X**

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## **SECTION IV**

### **CONDITION OF PROCUREMENT(CP)**

#### **1. SCOPE OF IS AUDIT**

##### **OVERVIEW OF SCOPE :-**

Information Systems Audit should cover entire Information Systems Infrastructure which includes Servers & other hardware items, Operating Systems, Databases, Application Systems, Technologies, Networks, Facilities, Process & People of the undernoted locations :

- a. Data Center, Mumbai & CBS Project Office, Naraina
- b. DR Center, Chennai
- c. CBS Servers, Interfaces, Network & Other Devices.
- d. ATM Switch & Back Office, Mumbai & Chennai
- e. Internet Banking

##### **DETAILED SCOPE OF AUDIT:-**

IS Audit should cover computerized functioning & functional areas with special reference to the following:

##### **1.1 Policy, Procedures, Standard Practices & other regulatory requirements :**

1.1.1 RBI guidelines on Information Security, Internet Banking & other legal requirements.

1.1.2 CERT-In and DSCI Guidelines.

1.1.3 IT Act 2000 and IT Act 2008.

1.1.3 Best practices of the industry including ISACA s Guidelines.

##### **1.2 Physical and Environmental Security :**

1.2.1 Access control systems

1.2.2 Fire / flooding / water leakage / gas leakage etc.

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1.2.3 Assets safeguarding, Handling of movement of Man /Material/ Media/ Backup / Software/ Hardware / Information.

1.2.4 Air-conditioning of DC/ DRC, humidity control systems

1.2.5 Electrical supply, Redundancy of power level, Generator, UPS capacity.

1.2.6 Surveillance systems of DC / DRC

1.2.7 Physical & environmental controls.

1.2.8 Pest prevention (rodent prevention) systems

1.3 Operating Systems Audit of Servers, Systems and Networking Equipments :

1.3.1 Setup & maintenance of Operating Systems Parameters

1.3.2 Updating of OS Patches

1.3.3 OS Change Management Procedures

1.3.4 Use of root and other sensitive Passwords

1.3.5 Use of sensitive systems software utilities

1.3.6 Vulnerability assessment & hardening of Operating systems to be carried out on Quarterly basis for one year.

1.3.7 Users and Groups created, including all type of users management ensuring password complexity, periodic changes etc.

1.3.8 File systems security of the OS

1.3.9 Review of Access rights and privileges.

1.3.10 Services and ports accessibility

1.3.11 Review of Log Monitoring, its sufficiency, security, maintenance and backup.

1.4 Network Security :

1.4.1 Security architecture of the entire network including :

1.4.1.1 Understanding the traffic flow in the network at LAN & WAN level.

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1.4.1.2 Audit of Redundancy for Links and Devices in CBS Setup.

1.4.1.3 Analyze the Network Security controls, which include study of logical locations of security components like firewall, IDS/IPS, proxy server, antivirus server, email systems, etc.

1.4.1.4 Study of incoming and outgoing traffic flow among web servers, application servers and database servers, DNS servers and Active Directory from security point of view.

1.4.1.5 Route path and table audit

1.4.1.6 Routing protocols and security controls therein.

1.4.1.7 Study and audit of network architecture from disaster recovery point of view.

1.4.1.8 Access control for MZ, DMZ, NOC and WAN and for specific applications of the respective zones.

1.4.1.9 Privileges available to Systems Integrator and outsourced vendors.

1.6.1.10 Review of all types of network level access controls, logs, for ensuring sufficiency & security of creation, maintenance and backup of the same.

1.4.1.11 Secure Network Connections for CBS, ATM and Internet Banking including client/ browser based security.

1.4.1.12 Evaluate centralized controls over Routers installed in Branches & their Password Management.

.1.4.2 Configuration audit of Network Devices :

1.4.2.1 Routing protocol analysis.

1.4.2.2 Checking of HSRP configurations, if any, and its working.

1.6.2.3 Analysis of load balancing mechanism

1.4.2.4 Analysis of latency in traffic across various links.

1.4.2.5 Study and analyze the network device s roles and configuration thorough configuration audit.

1.4.2.6 Understand and evaluate the loopholes in the configuration, if any.

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1.4.3 Verification of Network Devices for any security threats including :

1.4.3.1 Smurf and SYN Flood

1.4.3.2 DoS Attacks, DDoS, spoofing, DNS poisoning, Loki etc.

1.4.3.3 Checking for all known Viruses, Trojans, root kits, Worms etc. & protection thereof.

1.4.3.4 Checking of VLAN architecture and Security measures

1.4.3.5 Communication Controls

1.4.3.6 TCP Ports

1.4.3.7 Firewall /ACLs (Access Control List)

1.4.3.8 Whether Redundant Configuration of Ethernet ports of the servers is available?

1.4.4 Vulnerability Assessment and Penetration Testing of Network: systems to be carried out on Quarterly basis for one year and ensure compliance of the security gaps..

1.4.4.1 Port scanning of the servers, network devices and security devices/applications.

1.4.4.2 Penetration Testing (Internal and External).

1.4.4.3 Analysis and assessment of vulnerabilities of entire network.

1.4.4.4 Network traffic observation for important and confidential information like username, password flowing in clear text.

1.4.4.5 Comprehensive scanning of all IP address ranges in use to determine vulnerabilities that may exist in network devices & servers, and to audit all responses to determine if any risks exist.

1.4.4.6 Use vulnerability scanners to scan the critical/network devices and servers to determine vulnerability exists.

1.4.4.7 Search for back door traps in the Operating Systems.

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1.4.4.8 Check for the known vulnerabilities in the Operating Systems, and applications like Browser, E-Mail, Web Server, Web Application Server, and FTP etc.

1.4.4.9 Review of specific controls against Web Defacing and of uploading of Trojan/ Virus/ Malware/ Spyware etc at Bank s and Internet Banking Web Server and further spread of the same to clients/connected machines.

1.4.4.10 Attempt to guess passwords using password cracking tools.

1.4.4.11 Check for unnecessary services / applications running on network devices / servers / workstations.

1.4.4.12 Unauthorized access into the network and extent of such access possible

1.4.4.13 Unauthorized modifications to the network and the traffic flowing over network

1.4.4.14 Web defacing, SQL Injection, Cross Site Scripting, Information Leakage, Cookie handling, IP Spoofing, Buffer overflow, Session hijacks, Farming, Phishing etc.

1.4.4.15 Extent of information disclosure from the network.

1.4.4.16 Spoofing of identity over the network

1.4.4.17 Controls against possibility of denial of services attacks.

1.4.4.18 Effectiveness of Virus Control systems in E-mail gateways

1.4.4.19 Control over network access points.

1.4.4.20 Possibility of traffic route poisoning.

1.4.4.21 Whether the IOS is latest and has no known vulnerability issues?

1.4.4.22 Checking Spanning Tree Topology, check whether all Switches are free from Spanning loops.

1.4.4.23 Bridging, Root bridges, Designated port, root ports.

1.4.4.24 Checking Fault tolerance.

1.4.4.25 VTP security (VLAN Trunk Protocol) & VTP Modes

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1.4.4.26 MAC Spoofing.

1.4.4.27 Checking the Port duplex and speed setting, whether it is auto/half/full.

1.4.4.28 Checking trunking on the ports and only necessary VLANs Allowed.

1.4.5 Configuration and Access control audit for all Networking Devices viz. Routers, Switches, IDS/ IPS, Firewalls etc.:

1.4.5.1 Routers/switches are using AAA model for all user authentications.

1.4.5.2 Enable password on the routers/switches are encrypted form and password comply with minimum characters in length?

1.4.5.3 Local and remote access to the Networking devices is limited & restricted?

1.4.5.4 Validation of following services for security, effectiveness and efficiency on all Network devices:

1.4.5.4.1 IP directed broadcasts

1.4.5.4.2 Incoming packets at the router sourced with invalid addresses

1.4.5.4.3 TCP small services

1.4.5.4.4 UDP small services

1.4.5.4.5 All source routing

1.4.5.4.6 All web services running on router

1.4.5.4.7 What standardized SNMP community strings used

1.4.5.4.8 Logging & Auditing

1.4.5.4.9 Banner checking

1.4.6 Network Traffic Analysis & Performance :

1.4.6.1 Network performance.

1.4.6.2 Network traffic analysis.

1.4.6.3 Base line Configurations

1.4.6.4 Bandwidth Usage etc.

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1.5 Audit of ATM Switch, ATM Card Management, ATM PIN management including :

1.5.1 Audit of ATM Switch covering Application, Network Security, Switch Functionality, Interface, Audit Trails, transmission security, authorization, Fallback / fail over procedures, Status Update.

1.5.2 PIN Management (Generation & Re-generation etc.) of ATMs.

1.5.3 Adequacy of security defenses.

1.5.4 Scalability for expanding network in future & sharing arrangements.

1.5.5 Connectivity to partner networks and two way authentication between Bank s Server and Third Party s Server

1.5.6 Card management (Delivery of cards / PIN, hot listing of cards and reconciliation with settlement agency.)

1.5.7 ATM Switch operational controls, Consortium issues & Reconciliation/ Functional Managerial activities.

1.6 Backup & Recovery Testing:

1.6.1 Audit of Backup & recovery testing procedures.

1.6.2 Sufficiency checks of backup process.

1.6.3 Audit of access controls, movement and storage of backup media.

1.6.4 Audit of media maintenance procedures.

1.6.5 Security of removable media.

1.6.6 Controls for Prevention of Data Leakage through removable media or other means.

1.6.7 Media disposal mechanisms and Database archival & purging procedures.

1.6.8 Synchronization between DC & DRC databases.

1.6.9 DR Services to be up for Branches, as per RTO & RPO of BCP.

1.7 General scope :

1.7.1 Privileges available to Systems Integrator and Outsourced Vendors.

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1.7.2 Evaluate role, responsibility and accountability of IT Process owners.

1.7.3 Review of DR Drills undertaken and reports thereof (As per Bank's BCP and BIA). Comments on sufficiency and periodicity etc. of DR Drills undertaken and planned.

1.7.4 Audit of DR Site including verification of systems / controls at the DR site, Assessment of environment and procedures at the DR site, Parameter Management, Adequacy of infrastructure, fallback procedures, Assessment of access control, comparisons of DR Site setup with Data Centre with respect to infrastructure (Hardware, Application Software, Systems Software etc.)

1.7.5 Inventory movement controls & maintenance, equipment maintenance and disposal measures, change & configuration management processes, Audit of Logging and monitoring processes, audit of roles and responsibilities

1.7.6 Audit of Delivery channels, 3rd Party Products and various other interfaces

1.7.7 Encryption standards/ message integrity standards, data privacy processes, efficiency of audit trails, audit trail synchronization mechanisms.

1.7.8 Security in SDLC processes, security of application, security testing processes, in-built security with the application development and maintenance procedures, license management, escrow agreements.

1.7.9 Audit of SLA management for all kinds of services like Data Centre, DR site, ATM Switch, Physical Security, Facilities Management, etc

1.7.10 To check for appropriate and valid licenses for all the Operating Systems, Databases, Network Systems and all other Software being used.

1.7.11 Audit of Incident Management and handling processes, roles and responsibilities, incident response procedures, verification of incident reports and effectiveness measurement, awareness of security incidents and events

1.7.12 Security Management – Patch Management & AV processes, audit of roles and responsibilities, Audit of anti virus protection at host and at desktop levels, procedure of antivirus updates at DC, Servers and Desktops, Gateway level AV protection etc.

1.7.13 Audit of security and network device management, audit of roles and responsibilities, audit of access controls and privileges to the devices, audit of

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network security processes, verification of weak / default passwords in devices, redundancy and fallback mechanisms, audit of the database and systems administration processes, test setup and environment audit, access to test regions, password management etc.

1.7.14 Audit of, VLAN segregation, access to servers, encryption mechanisms for connectivity and access, internet access management, remote access provisioning etc.

1.7.15 Vulnerability assessment & hardening of Servers, Network Equipments etc.

### **2 METHOD OF AUDIT TO BE FOLLOWED:-**

The vendor has to undertake IS audit in a phased manner as described below :-

#### **PHASE I – CONDUCT OF IS AUDIT AS PER SCOPE, EVALUATION & SUBMISSION OF PRELIMINARY REPORTS OF IS AUDIT FINDINGS AND DISCUSSION ON THE FINDINGS**

#### **PHASE II –SUBMISSION OF FINAL REPORTS**

#### **PHASE III – COMPLIANCE ,REVIEW & CERTIFICATION**

The activities covered under each Phase are appended below.

#### **PHASE I**

1.0 Conduct of Information Systems Audit as per the SCOPE OF IS AUDIT as defined in section 1 of CP:-

1.1 The Bank will call upon the vendor , on placement of the order , to carry out demonstration and/or walkthrough, and/or presentation and demonstration of all or specific aspects of the IS AUDIT at the Bank s desired location or, for a walkthrough, at a mutually agreed location. All the expenses for the above will be borne by the concerned vendor.

1.2 Audit schedule to be provided 7 working days prior to the start of audit along with the name of the auditors who will be conducting the audit . Resumes of the auditors as assigned above for the project to be provided to the Bank beforehand and they should be deputed to the assignment only after Bank s Consent.

1.3 Commencement of IS Audit of IT Setups / branches as per the scope of Audit clause 1 of CP.

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1.4 Execute Vulnerability Assessment/Penetration testing of the entire network including Internet Banking as per the scope of Audit clause 1 of CP and Annexure 'A' on the written permission of the Bank and in the presence of Bank's Officials, Analysis of the findings and Guidance for Resolution of the same.

#### **2.0 Detailing the Security Gaps**

2.1 Document the security gaps i.e. vulnerability, security flaws, loopholes, etc. observed during the course of the review of the CBS & other IT infrastructure of the Bank as per the scope of Audit.

2.2 Document recommendations for addressing these security gaps and categorize the identified security gaps based on their criticality, resource/effort requirement to address them.

2.3 Chart a roadmap for the Bank to ensure compliance and address these Security gaps..

#### **3.0 Addressing the Security Gaps**

3.1 Help in Fixing/ addressing the Security flaws, gaps, loopholes, shortfalls Vulnerabilities in deployment of applications / systems which can be fixed immediately. If recommendations for Risk Mitigation / Removal could not be implemented as suggested, alternate solutions to be provided.

3.2 Recommend fixes for systems vulnerabilities in design or otherwise for application systems and network infrastructure.

3.3 Suggest changes/modifications in the Security Policies and Security Architecture including Network and Applications of PUNJAB & SIND BANK to address the same.

#### **4.0 Submission of Preliminary Draft Report of the IS Audit Findings:-**

Vendor has to submit a preliminary draft report of the IS Audit findings as per the Report format provided in Deliverable clause of CP.

#### **5.0 Review of the Preliminary Report and Acceptance of the same :-**

Vendor has to discuss the preliminary report findings / observations recommendations / suggestions with the Bank prior to acceptance of the same.

**PHASE II .**

6.0 Final Reports of ISA Findings :-Subject to the acceptance of the preliminary report by the bank , the vendor has to submit the Final report.

6.1 The final reports of the ISA findings will be submitted in Five major parts as detailed in clause 1.3 of Deliverables :-

ISA Report :- Executive summary

ISA Report Core findings along with Risk Analysis

ISA Report Detailed findings / Checklists

ISA Report :-Analysis of reports /Corrective Measures & Suggestions along with Risk Analysis

6.2 Acceptance of the Final Report .

**PHASE III .**

**7.0 Compliance Review**

An exercise to review the compliance with the findings and recommendations of ISA had to be undertaken by the vendor. This exercise would be undertaken preferably within 30 days from the date of completion of Phase II. However , the final date for the start of Compliance Audit will be intimated by the bank suitably. This exercise would encompass evaluation of the general/overall level of compliance undertaken by the Bank against the shortcomings reported in the ISA Reports .

8.0 Certification for compliance with the findings of the ISA & Final Sign Off On completion of the compliance review and before final sign off , the vendor has to provide the BANK an ISA compliance certificate including certificate as per RBI guidelines for Internet Banking.

**3 DELIVERABLES :-**

1.0 The major deliverables in this project are noted below:-

1.1 Information Systems Audit as per the Scope of Audit clause 1 of CP (Type - Services)

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1.2 Vulnerability Assessment/Penetration testing of the entire network including Internet Banking as per the scope of Audit clause 1 of CP and Annexure 'A' , Analysis of the findings and Guidance for Resolution of the same (Type - Documentation & Service)

1.3 ISA Report (Type - Documentation)

**Audit Report :-**

Broadly the Audit Report should contain keeping the undernoted points in view :-

Gaps, Deficiencies, Vulnerabilities observed in audit. Specific observations will be given indicating name and important address of equipment Risk associated with Gaps, deficiencies, vulnerabilities observed Analysis of vulnerabilities and issues of concern.

Recommendations for corrective action.

Category of Risk. Very High/ High/Medium/ Low.

Summary of audit findings including identification tests, tools used and results of test performed during IS Audit. Report on audit covering compliance status of the IS Audit. All observations will be thoroughly discussed with process owners before finalization of report. Audit report should be submitted in the following order:

Location, Domain/Module, Hardware, Operating Systems.

Detailed report of network audit including VAPT with recommendations and suggestions.

Detailed report of VAPT.

Audit report shall incorporate a certificate that the report covers every area specified in the scope of the BID

As indicated earlier the ISA Reports have to be submitted in two stages, Preliminary Draft has to be submitted at the end of Phase I & Final Report has to be submitted during Phase II. Both the sets of reports would comprise of the following sub reports:-

**I) ISA Report :- Executive Summary :-**

An executive summary should form a part of the FINAL REPORT .

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**II) ISA Report: Core Findings along with Risk Analysis:**

The vendor will submit a report bringing out the core findings of the IS Audit exercise in the existing practices along with Risk Analysis of individual items , with reference to the best practices & standards.

**III) ISA Report: Detailed Findings/Checklists :**

The detailed findings of the ISA would be brought out in this report which will cover in details all aspects viz. identification of flaws / gaps / vulnerabilities in the systems ( specific to equipments/resources –indicating name and IP address of the equipment with Office and Department name ) , identifications of threat sources , identification of Risk , Identification of inherent weaknesses , Servers/Resources affected with IP Addresses etc. Report should classify the observations into Critical /Non Critical category and assess the category of Risk Implication as VERY HIGH/HIGH/MEDIUM/LOW RISK based on the impact. The various checklist formats , designed and used for conducting the IS Audit as per the scope, should also be included in the report separately for Servers (different for different OS), RDBMS, Network equipments , security equipments etc , so that they provide minimum domain wise baseline security standard /practices to achieve a reasonably secure IT environment for technologies deployed by Punjab & Sind Bank. The Reports should be substantiated with the help of snapshots/evidences /documents etc. from where the observations were made.

**IV) ISA Report :-** In Depth Analysis of findings /Corrective Measures & Suggestions along with Risk Analysis :- The findings of the entire IS Audit Process should be critically analyzed and controls should be suggested as corrective /preventive measures for strengthening / safeguarding the IT assets of the Bank against existing and future threats in the short /long term . Report should contain suggestions/recommendations for improvement in the systems wherever required. If recommendations for Risk Mitigation /Removal could not be implemented as suggested , alternate solutions to be provided. Also, if the formal procedures are not in place for any activity , evaluate the process & the associated risks and give recommendations for improvement as per the best practices.

1.4 Provide Certification for the ISA (Type - Documentation & Service) At the end of IS Audit process ,the vendor has to provide Bank certification for IS Audit including a certificate as per RBI guidelines for Internet Banking.

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1.5 Documentation Format:-All documents will be handed over in three copies , signed , legible,neatly and robustly bound on A-4 size, good-quality paper Soft copies of all the documents, properly encrypted in MS Word /MS Excel /PDF format also to be submitted in CDs/DVDs along with the hard copiesAll documents will be in plain English .

**4. LIST OF COUNT OF SERVERS/DEVICES IN DIFFERENT AUDITEE LOCATIONS( It may vary in actual scenario) is enclosed as Annexure ‘B’**

**Note:-**

**The list may vary in actual scenario. Any new addition/ up gradation in hardware, software, new deliverables, change in architecture during the contract period at Data Center, DRS etc will also be covered in the audit .Exact details of the devices /equipments at the various auditee locations will be provided to the final shortlisted vendor at the time of placing of order.**

**5. ARBITRATION**

All disputes or differences between the parties will be resolved amicably. If amicable settlement is not possible, then such disputes and differences will be resolved through an arbitrator mutually agreed upon between the parties.

## **SECTION V: SCHEDULE OF REQUIREMENTS**

### **I N D E X**

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## ANNEXURE –I(a )(TECHNICAL BID) :- PROFILE OF THE BIDDER

| DESCRIPTION                                                                                                                                                  | DETAILS                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Registered address of the Bidder                                                                                                                             | Address:<br><br>Address for Correspondence of the Bidder<br><br>STD- Phone:<br><br>e-mail Id:<br><br>FAX No:                                                                                                                                |
| Contact name of the official who can commit on the contractual terms and the name of an alternate official who may be contacted in the absence of the former | Primary Contact:<br><br>Name:<br><br>Designation:<br><br>STD- Phone No:<br><br>Mobile Phone :<br><br>e-mail ID :<br><br>Alternate Contact:<br><br>Name :<br><br>Designation:<br><br>STD- Phone No:<br><br>Mobile Phone :<br><br>e-mail ID : |

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|                                           |                |
|-------------------------------------------|----------------|
| Contact addresses if different from above |                |
| Official Website                          | Web Site URL : |

Authorized Signatory with Seal

Date:

Place:

**ANNEXURE –I (b) (TECHNICAL BID) :-  
ORGANISATIONAL STRUCTURE**

**RFP REF No:- HO/CAC/CBS-01      Dt.**

| <b>DESRPTION</b>                                                                                                                                           | <b>DETAILS</b>                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Business Structure of the Bidder – Government organization / PSU /Partnership Firm /Limited Co. / Private Ltd. Co. (Enclose relevant registration details) |                                                         |
| Registered Office                                                                                                                                          |                                                         |
| Bidder's Organization's date of inception/Commencement of Business                                                                                         |                                                         |
| No. of completed years in existence as on the last date of bid submission                                                                                  |                                                         |
| Constitution                                                                                                                                               |                                                         |
| Names of Directors                                                                                                                                         |                                                         |
| Core Business of Bidder                                                                                                                                    |                                                         |
| Bidder is engaged in Information Systems Audits since (month & year) & total experience (in years/months) in ISAudit Services                              |                                                         |
| Whether Information Systems Audit is a core function of the bidder?                                                                                        |                                                         |
| Empanelment with CERT-In as IS Audit Organization – current status ( Enclose Empanelment details)                                                          | Empanelment valid from :-<br>Empanelment valid up to :- |

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|                                                                 |  |
|-----------------------------------------------------------------|--|
| Whether submitting the Bid as a part of any consortium (Yes/No) |  |
|-----------------------------------------------------------------|--|

Authorized Signatory with Seal

Date:

Place:

**ANNEXURE – I(C) (TECHNICAL BID) :- FINANCIAL  
INFORMATION**

RFP REF No:- HO/CAC/CBS-01

Dated:

| DESRPTION                                                                  | DETAILS                                                                                                                                                                      |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Turnover over the past two years from operations in India            | 2009-10 Rs.<br><br>2010-11 Rs.<br><br>Authenticated proof of Audited Balance-Sheet etc for the last 2 years(Enclosed Relevant documents are ):<br><br>1)<br><br>2)<br><br>3) |
| Turnover from IS Audit or and Consultancy services over the past two years | 2009-10 Rs.<br><br>2010-11 Rs.<br><br>Authenticated proof of Audited Balance-Sheet etc for the last 2 years(Enclosed Relevant documents are ):<br><br>1)<br><br>2)<br><br>3) |
| Net Profit of the Organization for last 3 years                            | 2008-09 Rs.<br><br>2009-10 Rs.                                                                                                                                               |

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|  |                                                                                                                                                                  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>2010-11 Rs.</p> <p>Authenticated proof of Audited Balance-Sheet etc for the last 2 years(Enclosed Relevant documents are ):</p> <p>1)</p> <p>2)</p> <p>3)</p> |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Authorized Signatory with Seal

Date:

Place:

**ANNEXURE –I(d) (TECHNICAL BID) :-  
DECLARATIONS BY BIDDER**

RFP REF No:- HO/CAC/CBS-01

Dated:

| DESRSCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                       | DETAILS        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Bidder warrants financial solvency i.e. ability to meet all debts as and when they fall due                                                                                                                                                                                                                                                                                                                         | (substantiate) |
| Bidder confirms that it has not been blacklisted by any Govt. Department /PSU/PSE or Banks or the bidder/firm is otherwise not involved in any such incident with any concern whatsoever                                                                                                                                                                                                                            | (substantiate) |
| Bidder confirms that it has not been a Vendor /consultant for supply of Hardware/Software components of the bank or involved in implementing Security & Network Infrastructure or providing services excluding IS Audit Services , either directly, or indirectly through a consortium, in the past three years to PUNJAB & SIND BANK ( Enclose a relevant declaration /confirmation to this effect – Annexure XII) | (substantiate) |

Authorized Signatory with Seal

Date:

Place:

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**ANNEXURE –I (e) (TECHNICAL BID) :- MANPOWER  
DETAILS**

RFP REF No:- HO/CAC/CBS-01

Dated:

| DESRPTION                                                                                                                                                                                                                                                                                                     | DETAILS                                                                                                                                                                                                                                                                                                                                                                       |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|----|-------------|----|-------|----|--------------------|----|-------------|----|------------|----|-----------|----|--------|----|-------|
| Number of Professional Manpower available for IS Audits in the organization (Mention count for the Permanent employees only )                                                                                                                                                                                 | <table><tr><td>S.N.</td><td>PROFESSIONAL</td></tr><tr><td>1.</td><td>CISA / CISM</td></tr><tr><td>2.</td><td>CISSP</td></tr><tr><td>3.</td><td>BS 7799/ISO27001LA</td></tr><tr><td>4.</td><td>CCNA / CCNE</td></tr><tr><td>5.</td><td>DISA / ISA</td></tr><tr><td>6.</td><td>OCP / OCM</td></tr><tr><td>7.</td><td>OTHERS</td></tr><tr><td>8.</td><td>TOTAL</td></tr></table> | S.N. | PROFESSIONAL | 1. | CISA / CISM | 2. | CISSP | 3. | BS 7799/ISO27001LA | 4. | CCNA / CCNE | 5. | DISA / ISA | 6. | OCP / OCM | 7. | OTHERS | 8. | TOTAL |
| S.N.                                                                                                                                                                                                                                                                                                          | PROFESSIONAL                                                                                                                                                                                                                                                                                                                                                                  |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 1.                                                                                                                                                                                                                                                                                                            | CISA / CISM                                                                                                                                                                                                                                                                                                                                                                   |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 2.                                                                                                                                                                                                                                                                                                            | CISSP                                                                                                                                                                                                                                                                                                                                                                         |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 3.                                                                                                                                                                                                                                                                                                            | BS 7799/ISO27001LA                                                                                                                                                                                                                                                                                                                                                            |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 4.                                                                                                                                                                                                                                                                                                            | CCNA / CCNE                                                                                                                                                                                                                                                                                                                                                                   |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 5.                                                                                                                                                                                                                                                                                                            | DISA / ISA                                                                                                                                                                                                                                                                                                                                                                    |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 6.                                                                                                                                                                                                                                                                                                            | OCP / OCM                                                                                                                                                                                                                                                                                                                                                                     |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 7.                                                                                                                                                                                                                                                                                                            | OTHERS                                                                                                                                                                                                                                                                                                                                                                        |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| 8.                                                                                                                                                                                                                                                                                                            | TOTAL                                                                                                                                                                                                                                                                                                                                                                         |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |
| <p>Details Of Teams Leads / Project leads/Key Personnel who have led prior IS audit assignments of DC/DRS etc. in a Bank or other organization.</p> <p>(Enclose Individual Curriculum Vitae of Team Leads / Project Leads and other key personnel assigned for the project as per Annexure III &amp; IV).</p> | <p>CISA :</p> <p>CISSP :</p> <p>BS7799/ISO 27001 LA :</p> <p>Any Other :</p>                                                                                                                                                                                                                                                                                                  |      |              |    |             |    |       |    |                    |    |             |    |            |    |           |    |        |    |       |

Authorized Signatory with Seal

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

Date:

Place:

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

**ANNEXURE –I (f) (TECHNICAL BID) :- EXPERTISE &  
EXPERIENCE**

RFP REF No:- HO/CAC/CBS-01

Dated:

| DESRPTION                                                                                                                                                                                                                                                                                                                                                                                                                                    | DETAILS |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Details of the Assignments where the bidder has performed IS audit of Data Centre / DRS & Related Infrastructure in a Bank/Other organization during the last two years                                                                                                                                                                                                                                                                      |         |
| Tools used for IS Audit of DC,DRS,PG etc.                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Methodology adopted for IS Audit of DC, DRS etc.                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Bidder's experience & Expertise in IS Audit of CBS Data Centre / DRS , VAPT of the entire CBS Infrastructure including Internet Banking , IS Audit of ATM Switch , IS Audit of Payment gateway , IS Experience & Expertise in Vulnerability Assessments in Audit of specialized CBS branches like Service Branch (Enclose Relevant documents) Experience & Expertise in Penetration Testing of CBS n/w .<br><br>(Enclose Relevant documents) |         |

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

Authorized Signatory with Seal

Date:

Place:

**Annexure II :-( Technical Bid)**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

**PERFORMANCE STATEMENT OF THE BIDDER (We  
expect minimum three references )**

RFP REF No:- HO/CAC/CBS-01

Dated:

| DESRSCRIPTION                                                                                                             | DETAILS                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Name of the Bank / organization                                                                                           |                                                                                          |
| Address of the Bank / organization                                                                                        |                                                                                          |
| Project Name(Mention only IS Audit of DC /DRS/VAPT & allied Infrastructure related projects in Banks/other organizations) |                                                                                          |
| Sites covered under the Project                                                                                           |                                                                                          |
| IS Audit start date                                                                                                       |                                                                                          |
| Current status of the Project                                                                                             |                                                                                          |
| Duration of the Project                                                                                                   |                                                                                          |
| Modules covered in IS audit                                                                                               |                                                                                          |
| Infrastructure/Facilities covered in IS Audit                                                                             |                                                                                          |
| Contact person details from the Bank                                                                                      | 1)Name:-<br><br>2) Designation :-<br><br>side<br><br>3)Phone No. :-<br><br>4)Email Id :- |
| Names of project staff/ professionals involved                                                                            |                                                                                          |

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

|                                                   |  |
|---------------------------------------------------|--|
| Nature of audit work that was outsourced (if any) |  |
|---------------------------------------------------|--|

Authorized Signatory with Seal

Date:

Place:

**Annexure III :- (Technical Bid)PROFILE OF THE  
PROPOSED CORE AUDIT TEAM TO BE ASSIGNED  
FOR THE PROJECT**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

| S.N. | NAME | DESIG. | PART<br>TIME/<br>FULL<br>TIME | ROLE IN<br>IS AUDIT<br>(TASK/<br>MODULE) | PROFESSIONAL<br>QUALIFICATION | YEARS<br>OF IS<br>AUDIT<br>EXP. |
|------|------|--------|-------------------------------|------------------------------------------|-------------------------------|---------------------------------|
| 1    |      |        |                               |                                          |                               |                                 |
| 2    |      |        |                               |                                          |                               |                                 |
| 3    |      |        |                               |                                          |                               |                                 |
| 4    |      |        |                               |                                          |                               |                                 |
| 5    |      |        |                               |                                          |                               |                                 |
| 6    |      |        |                               |                                          |                               |                                 |
| 7    |      |        |                               |                                          |                               |                                 |
| 8    |      |        |                               |                                          |                               |                                 |
| 9    |      |        |                               |                                          |                               |                                 |
| 10   |      |        |                               |                                          |                               |                                 |

Authorized Signatory with

Seal

Date:

Place:

**Annexure IV (Technical Bid) INDIVIDUAL CV's FOR  
TEAM LEAD & OTHER MEMBERS OF THE CORE  
AUDIT TEAM TOBE ASSIGNED FOR THE PROJECT**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

(To be furnished on separate sheet for each member of the audit team )

| DESRPTION                                                   | DETAILS |
|-------------------------------------------------------------|---------|
| Name of the member                                          |         |
| Role of the Member                                          |         |
| Employee of the audit firm / company since:                 |         |
| Designation:                                                |         |
| Educational Qualification:                                  |         |
| Other Certifications/accreditations:                        |         |
| Employment History                                          |         |
| Total Banking Experience (no. of years,areas of experience) |         |

Experience in similar IS Audit projects in the past three years(including client details, role of member, activities performed, duration of experience)

| S.NO. | Client Organization | Details Of assignment done & Role Assigned | Experience in Months & years |
|-------|---------------------|--------------------------------------------|------------------------------|
|       |                     |                                            |                              |
|       |                     |                                            |                              |
|       |                     |                                            |                              |

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

Authorized Signatory with Seal

Date:

Place:

Annexure V :- (Commercial bid)

**FORMAT FOR COMMERCIAL BID**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

RFP Ref. No:

| <b>PARTICULARS</b>                                                                      | <b>AMOUNT (IN RS)<br/>INCLUDING<br/>ALL TAXES<br/>AS PER THE<br/>CURRENT<br/>RATE<br/>EXCLUDING<br/>SERVICE<br/>TAX<br/><br/>(A)</b> | <b>SERVICE<br/>TAX AS PER<br/>THE<br/>CURRENT<br/>RATE<br/>APPLICABLE<br/><br/>(B)</b> | <b>TOTAL<br/>AMOUNT<br/><br/>C=(A+B)</b> |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------|
| Cost of IS Audit as per the scope defined in the RFP (Inclusive of all fees & expenses) |                                                                                                                                      |                                                                                        |                                          |
| <b>TOTAL COST<br/>OF IS AUDIT</b>                                                       |                                                                                                                                      |                                                                                        |                                          |

(TOTAL AMOUNT IN WORDS: - Rupees )

Authorized Signatory with Seal

Date:

**PUNJAB & SIND BANK**

Place:

**Note:-**

- **The Commercial Bid should contain the Total Project cost, on a fixed cost Basis. Punjab & Sind will neither provide nor reimburse any expenditure towards any type of Accommodation, Travel Ticket, Airfares , Train fares , Halting expenses , Transport , Lodging , Boarding etc.**
- **The prices quoted above should be inclusive of all taxes & Duties as applicable except Service Tax.**
- **Service Tax should be mentioned in the separate column as provided in the format**
- **Providing commercial proposal other than this format may lead to rejection of the bid.**

**Annexure VI :- (Technical Bid)**

**BID FORM**

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

To

PUNJAB & SIND BANK,

H.O. Inspection Department,

2<sup>nd</sup> floor, 6 Scindia House,

Connaught Circus,

New Delhi – 110001

Date:

Having examined the RFP including all Annexures, the receipt of which is hereby duly acknowledged, we the undersigned, offer to provide IS Audit services in conformity with the said RFP in accordance with the Schedule of Prices indicated in the Commercial Offer and made part of the Bid.

We undertake, if our bid is accepted, to deliver the services in accordance with the delivery schedule specified in schedule of requirement.

We agree to abide by this bid for the period of 180 days after the date fixed for Technical bid opening under Clause 19 of the Instruction to Bidders and it shall remain binding upon us and may be extended at any time before the expiration of that period.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”.

We understand that the Bank is not bound to accept the lowest of any bid the Bank may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2011.

(Signature) (In the Capacity of)

Duly authorised to sign bid for and on behalf of

(Name & Address of Bidder) \_\_\_\_\_

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

Business\_\_\_\_\_ Address\_\_\_\_\_

**Annexure VII :- (Technical Bid)**

**BID SECURITY FORM**

PUNJAB & SIND BANK

(FORMAT OF BANK GUARANTEE (BG) FOR BID  
SECURITY)

(ON A NON-JUDICIAL STAMP PAPER OF RS. 100.00)

TO:

PUNJAB & SIND BANK,

H.O. Inspection Department,

2<sup>nd</sup> floor, 6 Scindia House,

Connaught Circus,

New Delhi – 110001

WHEREAS \_\_\_\_\_ (hereinafter called “the Bidder”) has submitted its bid dated \_\_\_\_\_ (date of submission of bid) for providing services of IS Audit ) (hereinafter called “the \_\_\_\_\_ ( name and/or description of goods/Services Bid”).

KNOW ALL PEOPLE by these presents that WE \_\_\_\_\_ ( name of bank) of \_\_\_\_\_ (name of country)having our registered office at \_\_\_\_\_ (address of bank) (hereinafter called “the Bank”) are bound unto PUNJAB & SIND BANK (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 said Bank this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

THE CONDITONS of this obligation are:

If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or

If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity fails or refuses to execute the Contract Form if required;

We undertake to pay the Purchaser up to the above amount 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

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the bid validity period of 180 days i.e. up to \_\_\_\_\_, and any demand in respect thereof should reach the Bank not later than the above date.

Place:

SEAL      Code No.      SIGNATURE

NOTE: 1 BIDDER SHOULD ENSURE THAT THE SEAL & CODENO. OF THE SIGNATORY IS PUT BY THE BANKERS, BEFORE SUBMISSION OF BG

2 STAMP PAPER IS REQUIRED FOR THE BG ISSUED BY THE BANKS LOCATED IN INDIA.

**PUNJAB & SIND BANK**

**Annexure VIII :- PERFORMANCE SECURITY FORM  
(FORMAT OF BANK GUARANTEE (BG) FOR  
EMPANELMENT SECURITY)  
(ON A NON-JUDICIAL STAMP PAPER OF RS. 100.00)**

**TO:**

PUNJAB & SIND BANK,  
H.O. Inspection Department,  
2<sup>nd</sup> floor, 6 Scindia House,  
Connaught Circus,  
New Delhi – 110001

WHEREAS \_\_\_\_\_ (hereinafter called “the Bidder”) has submitted its bid dated \_\_\_\_\_ (date of submission of bid ) for providing services of IS Audit \_\_\_\_\_ ( name and/or description of goods ) (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE \_\_\_\_\_ ( name of bank ) of \_\_\_\_\_ (name of country) having our registered office at \_\_\_\_\_ (address of bank) (hereinafter called “the Bank”) are bound unto PUNJAB & SIND BANK (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 said Bank this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

THE CONDITONS of this obligation are:

1. If the Vendor, having been notified as selected for providing IS AUDIT SERVICES to the Purchaser, during the period of contract fails to perform obligations as vendor and fulfil requirements as specified in the contract up to the desired level.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand,

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

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 of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain valid for a period of 12 months from the date of signing of the contract i.e. from \_\_\_\_\_ to \_\_\_\_\_, and any demand in respect thereof should reach the Bank not later than the above date.

Place:

SEAL      Code No.      SIGNATURE

NOTE:

1. THE VENDOR SHOULD ENSURE THAT THE SEAL & CODENO. OF THE SIGNATORY IS PUT BY THE BANKERS, BEFORE SUBMISSION OF BG
2. STAMP PAPER IS REQUIRED FOR THE BG ISSUED BY THE BANKS LOCATED IN INDIA.

**Annexure IX :- CONTRACT FORM**

**(Non-Judicial Stamp Paper of appropriate value)**

**RFP REF. NO.**

**CONTRACT NUMBER:**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ Between  
PUNJAB & SIND BANK (hereinafter “the Purchaser”) of one part and  
\_\_\_\_\_ (Name of Selected Vendor) of \_\_\_\_\_ (City and Country of  
Vendor) (hereinafter “the Vendor”) of the other part:

WHEREAS the Purchaser is desirous that certain services should be provided  
by the Vendor, viz. \_\_\_\_\_ (Brief description of  
Services) and has accepted a bid by the Vendor for supply of software and  
services to meet its requirement from time to time.

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings  
as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed  
as part of this Agreement, viz. :
  - (a) RFP No. HO/CAC/CBS/01 dated \_\_\_\_\_ and all its  
addendums/modifications
  - (b) the Bid form and price schedule submitted by the bidder and subsequent  
amendments made into it as accepted by the bank.
  - (c) the Scope of works , deliverable
  - (d) the schedule of requirements
  - (e) the Conditions of Vendor Selection
  - (f) the Conditions of Procurement
  - (g) The Purchaser s Notification of Selection of Vendor for IS AUDIT
  - (h) Service level Agreement (SLA) & Purchase Order

**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

3. In consideration of the payments to be made by the Purchaser to the Vendor in terms of Purchase Order for IS AUDIT services placed by Head Office of the Purchaser, the vendor hereby covenants with the Purchaser to provide the services therein in conformity in all respects with the provisions of the contract.

4. The Purchaser hereby covenants to pay the vendor in consideration of the provision of services, the Purchase order Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

Signed, sealed and Delivered by the

Said \_\_\_\_\_ (For the Vendor) in presence of

\_\_\_\_\_

Signed, sealed and Delivered by the

Said \_\_\_\_\_ (For the Purchaser) in presence of

\_\_\_\_\_

**Annexure X :- (Technical Bid)**

**TECHNICAL DEVIATION STATEMENT**

The following are the particulars of deviations from the requirements of the tender:-

| CLAUSE | DEVIATION | REMARKS (Including justification) |
|--------|-----------|-----------------------------------|
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |

The eligibility criterion & offered IS AUDIT services furnished in the bidding document shall prevail over those of any other documents forming a part of our bid except only to the extent of deviations furnished in this statement.

Dated \_\_\_\_\_ Signature and seal of the Bidder

**Note: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “No Deviations”.**

Annexure XI :- (Commercial Bid)

COMMERCIAL DEVIATION STATEMENT FORM

The following are the particulars of deviations from the requirements of the tender:

| CLAUSE | DEVIATION | REMARKS (Including justification) |
|--------|-----------|-----------------------------------|
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |
|        |           |                                   |

The cost of offered IS AUDIT services furnished in the bidding document (Annexure V) shall prevail over those of any others document forming a part of our bid except only to the extent of deviations furnished in this statement.

Dated \_\_\_\_\_ Signature and seal of the Bidder

**NOTE: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “No Deviations”.**

**PUNJAB & SIND BANK**

**Annexure XII (Technical Bid)**

**LETTER OF CONFIRMATION**

The Asstt General Manager,

PUNJAB & SIND BANK,

H.O. Inspection Department,

2<sup>nd</sup> floor, 6 Scindia House,

Connaught Circus,

New Delhi – 110001

Dear Sir,

We confirm that we will abide by the conditions mentioned in the Tender Document (RFP and annexure) in full and without any deviation subject to Annexures X & XI. We shall observe confidentiality of all the information passed on to us in course of the IS Audit process and shall not use the information for any other purpose than the current tender.

We confirm that we have not been blacklisted by any Govt. Department /PSU / PSE or Banks or otherwise not involved in any such incident with any concern whatsoever, where the job undertaken / performed and conduct has been questioned by any authority, which may lead to legal action.

We also confirm that we are not a vendor /consultant to the bank and not involved in either supply/installation of Hardware/Software, implementation of Security/Network Infrastructure of the Bank or providing services excluding IS Audit services, in the past three years directly or indirectly through a consortium.

Place :

Date

:

(Authorized Signatory)

SEAL

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

#### **ANNEXURE “A”**

#### **IS Audit of Internet Banking Application ([www.psonline.co.in](http://www.psonline.co.in)) and Corporate Website ([www.psbindia.com](http://www.psbindia.com)) of the Bank.**

While conducting the IS Audit, the guidelines/ recommendations issued by CERT-In and Reserve Bank of India should be strictly complied with.

##### **(A) Vulnerability Assessment & Penetration Testing (Internal and External)**

The Bidder is expected to conduct a VA/PT of the deployed solution at the Data Centre and the Disaster Recovery Site to be carried out on Quarterly basis for one year and ensure compliance of the security gaps. Below is a list of a minimum set of activities to be performed:

- Server Configuration Reviews
- Password Security
- Virus, Hostile, and Malicious Code Security.
- Remote Access Security
- DOS (Denial of Service Attacks)
- DDOS (Distributed Denial of Service Attack)
- Back door traps in the Operating Systems.
- Review of specific controls against Web Defacing and of uploading of Trojan/ Virus/ Malware/ Spyware etc and Web Servers and further spread of the same to clients/ connected machines.
- Password management procedure of the Bank.
- Web defacing, SQL Injection, Cross Site Scripting, Information Leakage, Cookie handling, IP Spoofing, Buffer overflow, Session hijacks, Farming, Phishing Frauds etc.
- Spoofing of identity (identity theft) over Internet.
- Operating System Layer, Application Layer, & Database Layer should be comprehensively covered.
- Attempting to overload the systems using Distributed Denial of Services (DDOS) and Denial of Services (DOS) attacks.
- Checking if commonly known holes in applications. Checking vulnerabilities like IP Spoofing, Buffer Overflows, Session Hijacks, Account Spoofing, Frame Spoofing, Caching of web pages, Cross Site Scripting, Cookie handling, SQL/XPATH Injection Attacks, & SQL Query in Parameter Value etc.
- Verification of SSL Certificate.
- Whether solution architecture provides 24 X 7 availability of applications to customer. Whether all servers are configured to synchronize time with Central NTP server.
- To check whether Patch management procedure is comprehensive and adequate.
- To ascertain whether IDS/IPS is configured for intrusion detection/prevention, suspicious activity on host are monitored and reported. Firewall and IDS/IPS logs are generated and scrutinized.
- To check whether Maker-Checker concept is followed for changing system parameters.
- To check whether proper infrastructure and schedule for back up is fixed, testing of back-up data done to ensure readability of backup.
- To check whether secrecy and confidentiality of Customers' data is preserved.
- To check the Change Management procedure.

##### **(B) Application Review and Testing**

## **RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

### **PUNJAB & SIND BANK**

The bidder is to carry out an application review covering the functionality, security, and controls within the applications. The scope for the application review is as below:

- Study the applications for adequate input, processing and output controls and conduct various tests to verify existence and effectiveness of the controls.
- Interface security and controls testing to the core banking application, bill presentment/ payment, SMS Gateway, and payment application, middleware, & other Interfaces.
- Whether the application ensures the identity of users accessing the Application.

[NOTE: The above scope of work are equally applicable to corporate website of the Bank (i.e. [www.psbindia.com](http://www.psbindia.com))]

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**RFP FOR IS AUDIT OF CBS DC, DRS, ATM SWITCH ETC.**

**PUNJAB & SIND BANK**

**ANNEXURE 'B'**

**LIST OF COUNT OF SERVERS/DEVICES IN DIFFERENT AUDITEE LOCATIONS**

**( It may vary in actual scenario)**

|   | Location | Category | Group            | Item   | Make/Model | Configuration                                                                                                                                                                                                | Quantity |
|---|----------|----------|------------------|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1 | DC       | Hardware | Server & Storage | Server | IBM P-570  | 4X 4.7 GHz Power 6 Cores<br>64 GB RAM<br>4 X 146 GB Internal Disks HDD<br>4 x 1 Giganet Ethernet ports<br>3 x 2 Gbit fibre channel adapters                                                                  | 1        |
| 2 | DC       | Hardware | Server & Storage | Server | IBM P-520  | 2X 1.6 GHz Power 5 Cores<br>16 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4 x 2 Gbit fibre channel adapters<br>4x1 Giganet Ethernet ports                                                                   |          |
| 3 | DC       | Hardware | Server & Storage | Server | IBM P-570  | 4X 4.7 GHz Power 6 Cores<br>64 GB RAM<br>4 X 146 GB Internal Disks HDD<br>4 Giganet Ethernet ports<br>3 x 2 Gbit fibre channel adapters<br><b>1 X 4 Processor Expansion Unit (No Separate Serial Number)</b> | 1        |
| 4 | DC       | Hardware | Server & Storage | Server | IBM P-520  | 2X 1.9 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4 x 1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters                                                                  | 1        |

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|    |    |          |                  |        |              |                                                                                                                                           |   |
|----|----|----------|------------------|--------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|
| 5  | DC | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.5 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4 x 1 Giganet Ethernet ports                                    | 1 |
|    | DC | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.5 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4x1 Giganet Ethernet ports                                      | 1 |
|    | DC | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.5 GHz Power 5 Cores<br>6 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4x1 Giganet Ethernet ports                                      | 1 |
|    | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core<br>24 GB RAM<br>2 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                             | 1 |
|    | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 GHZ XEON QUAD CORE<br>24 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS                             | 1 |
| 10 | DC | Hardware | Server & Storage | Server | IBM P-520    | 2X 1.9 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x 2 Gbit fibre channel adapters<br>4x1 Giganet Ethernet ports | 1 |
| 11 | DC | Hardware | Server & Storage | Server | IBM P-505    | 1X 1.9 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x2 Giganet Ethernet                                           | 1 |

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|    |    |          |                  |        |              | ports                                                                                                                                                                                         |   |
|----|----|----------|------------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 12 | DC | Hardware | Server & Storage | Server | IBM X-3350   | 1 X 3 Ghz Xeon Dual core<br>8 GB RAM<br>2 x 146 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                    | 1 |
| 13 | DC | Hardware | Server & Storage | Server | IBM X-3250   | 1 X 3 Ghz Xeon Dualcore<br>8 GB RAM<br>2 x 146 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                     | 1 |
| 14 | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 3 X 2.93 Ghz Xeon Quad core<br>8 GB RAM<br>2 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                  | 1 |
| 15 | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 3 X 2.93 Ghz Xeon Quad core<br>8 GB RAM<br>2 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                  | 1 |
| 16 | DC | Hardware | Server & Storage | Server | IBM P-570    | 4X 4.7 GHz Power 6 Cores<br>64 GB RAM<br>4 X 73.4 GB Internal Disks HDD<br>4x 1 Giganet Ethernet ports<br>3 x 2 Gbit fibre channel adapters<br>IOD (4x1 GB ethernet port, 6 X2 Gb FC adapter) | 1 |

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|    |    |          |                  |        |           |                                                                                                                                                                                                                                   |   |
|----|----|----------|------------------|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 17 | DC | Hardware | Server & Storage | Server | IBM P-550 | 8X 1.5 GHz Power 5 Cores<br>64 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x 146.8 GB Internal Disks HDD<br>4x 1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters<br>IOD (8 x1 GB ethernet port, 4 X2 Gb FC adapter) | 1 |
| 18 | DC | Hardware | Server & Storage | Server | IBM X-366 | 4 X 3.16 Ghz Xeon Dual core<br>8 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters<br>1 x Raid 8ki                                                                 | 1 |
| 19 | DC | Hardware | Server & Storage | Server | IBM X-366 | 4 X 3.16 Ghz Xeon Dual core<br>8 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters<br>1 x Raid 8ki                                                                 | 1 |
| 20 | DC | Hardware | Server & Storage | Server | IBM X-346 | 2 X 3.2 Ghz Xeon Dual core<br>7 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 7k                                                                                                        | 1 |
| 21 | DC | Hardware | Server & Storage | Server | IBM X-346 | 2 X 3.2 Ghz Xeon Dual core<br>4 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters                                                                                  | 1 |

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|    |    |          |                  |        |            |                                                                                                                                                                  |   |
|----|----|----------|------------------|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |        |            | 1 x                                                                                                                                                              |   |
| 22 | DC | Hardware | Server & Storage | Server | IBM X-346  | 1 X 3.2 GHZ XEON<br>DUAL CORE<br>3 GB RAM<br>5 X 73 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS<br>1 X RAID 7K                              | 1 |
| 23 | DC | Hardware | Server & Storage | Server | IBM X-346  | 1 X 3.2 Ghz Xeon Dual<br>core<br>3 GB RAM<br>5 X 73 GB internal disks<br>mirrored<br>2 X 1 Giganet Ethernet<br>Ports<br>1 x Raid 7k                              | 1 |
| 24 | DC | Hardware | Server & Storage | Server | IBM X-346  | 1 X 3.2 Ghz Xeon Dual<br>core<br>3 GB RAM<br>5 X 73 GB internal disks<br>mirrored<br>2 X 1 Giganet Ethernet<br>Ports<br>1 x Raid 7k                              | 1 |
| 25 | DC | Hardware | Server & Storage | Server | IBM X-346  | 2 X 3.2 Ghz Xeon Dual<br>core<br>3 GB RAM<br>5 X 73 GB internal disks<br>mirrored<br>2 X 1 Giganet Ethernet<br>Ports<br>+J713 x 2 Gbit fibre<br>channel adapters | 1 |
| 26 | DC | Hardware | Server & Storage | Server | IBM X-3650 | 2 X 3.0 Ghz Xeon Dual<br>core<br>3 GB RAM<br>5 X 146.8 GB internal<br>disks mirrored<br>2 X 1 Giganet Ethernet<br>Ports                                          | 1 |
| 27 | DC | Hardware | Server & Storage | Server | IBM P-520  | 2 X 1.9 GHz Power 5<br>cores<br>8 GB RAM<br>4 X 73.4 GB Internal<br>Disks HDD in RAID 1                                                                          | 1 |

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|    |    |          |                  |        |           |                                                                                                                                                                     |   |
|----|----|----------|------------------|--------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |        |           | 4 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters                                                                                                       |   |
| 28 | DC | Hardware | Server & Storage | Server | IBM X-346 | 2X 3.2 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports<br>2x2 Gbit Fibre channel adapter      | 1 |
| 29 | DC | Hardware | Server & Storage | Server | IBM X-346 | 2 X 3.2 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports<br>2x2 Gbit Fibre channel adapter | 1 |
| 30 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.2 Ghz Xeon Dual core<br>2 GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports                                   | 1 |
| 31 | DC | Hardware | Server & Storage | Server | IBM X-346 | 2 X 3.2 Ghz Xeon P4<br>4 GB RAM<br>2 x 73.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters                         | 1 |
| 32 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.2 Ghz Xeon P4<br>5 GB RAM<br>2 x 73.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters                         | 1 |

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|    |    |          |                  |                    |                     |                                                                                                                                                  |   |
|----|----|----------|------------------|--------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 33 | DC | Hardware | Server & Storage | Server             | IBM X-346           | 1 X 3.2 Ghz Xeon Dual core<br>1 GB RAM<br>2 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                      | 1 |
| 34 | DC | Hardware | Server & Storage | Server             | IBM P-505           | 1X 1.7 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>4 x 1 Giganet Ethernet ports                                           | 1 |
| 35 | DC | Hardware | Server & Storage | Server             | IBM X-346           | 1 X 3.2 Ghz Xeon Dual core<br>6 GB RAM<br>5 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                      | 1 |
| 36 | DC | Hardware | Server & Storage | Server             | IBM X-346           | 2 X 3.2 Ghz Xeon Dual core<br>6 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters | 1 |
| 37 | DC | Hardware | Server & Storage | Server             | IBM X-346           | 1 X 3.2 Ghz Xeon P4<br>5 GB RAM<br>3 x 73.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters      | 1 |
| 38 | DR | Hardware | Server & Storage | Server             | IBM X-346           | 2 X 3.2 GHZ XEON DUAL CORE<br>5 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS<br>3 X 2 GBIT FIBRE CHANNEL ADAPTERS | 1 |
| 39 | DC | Hardware | Server & Storage | Storage Controller | DS 4800 Disk System | DS 4800 Disk System                                                                                                                              | 1 |

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|    |    |          |                  |                  |           |                                                                                                                  |   |
|----|----|----------|------------------|------------------|-----------|------------------------------------------------------------------------------------------------------------------|---|
| 40 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP810 STRG. EXP Unit                                                                                    | 1 |
| 41 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP810 STRG. EXP Unit                                                                                    | 1 |
| 42 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 43 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 44 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 45 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 46 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 47 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 48 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 49 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 50 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 51 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP710 STRG. EXP Unit                                                                                    | 1 |
| 52 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP100 STRG. EXP Unit                                                                                    | 1 |
| 53 | DC | Hardware | Server & Storage | Storage & Backup |           | DS 4000 EXP100 STRG. EXP Unit                                                                                    | 1 |
| 54 | DC | Hardware | Server & Storage | SAN Switch       | SAN 256 B | San Director Totalstorage 256B                                                                                   | 1 |
| 55 | DC | Hardware | Server & Storage | SAN Switch       | SAN 256 B | San Director Totalstorage 256B                                                                                   | 1 |
| 56 | DC | Hardware | Server & Storage | Tape Library     | 3310      | Totalstorage TS 3310 Tape Library                                                                                | 1 |
| 57 | DR | Hardware | Server & Storage | Server           | IBM P-550 | 4X 1.9 GHz Power 5 Cores<br>48 GB RAM<br>2 x 146.4 GB Internal Disks HDD in RAID 1<br>4X1 Giganet Ethernet ports | 1 |

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|    |    |          |                  |        |              |                                                                                                                                                                               |   |
|----|----|----------|------------------|--------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |        |              | 2 x 2 Gbit fibre channel adapters                                                                                                                                             |   |
| 58 | DR | Hardware | Server & Storage | Server | IBM P-550    | 4X 1.9 GHz Power 5 Cores<br>48 GB RAM<br>4 x 73.4 GB Internal Disks HDD in RAID 1<br>4X1 Giganet Ethernet ports<br>3 x 2 Gbit fibre channel adapters                          | 1 |
| 59 | DR | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.5 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 Giganet Ethernet ports                                                                  | 1 |
| 60 | DR | Hardware | Server & Storage | Server | IBM P-520    | 2X 2.1 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x 1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters<br>1 x 4 GB FC adapter  | 1 |
| 61 | DR | Hardware | Server & Storage | Server | IBM P-520    | 2X 2.1 GHz Power 5 Cores<br>16 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x 1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters<br>1 x 4 GB FC adapter | 1 |
| 62 | DR | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.5 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x1 Giganet Ethernet ports                                                               | 1 |
| 63 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core<br>24 GB RAM                                                                                                                                      | 1 |

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|    |    |          |                  |        |            |                                                                                                                                                       |   |
|----|----|----------|------------------|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |        |            | 2 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                     |   |
| 64 | DR | Hardware | Server & Storage | Server | IBM P-520  | 1X 1.6 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x 1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters | 1 |
| 65 | DR | Hardware | Server & Storage | Server | IBM P-505  | 1X 1.6 GHz Power 5 Cores<br>4 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x 1 Giganet Ethernet ports                                      | 1 |
| 66 | DR | Hardware | Server & Storage | Server | IBM X-3350 | 1 X 3 Ghz Xeon Quard core<br>8 GB RAM<br>2 x 146.8 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                         | 1 |
| 67 | DR | Hardware | Server & Storage | Server | IBM X-306  | 1 X 3.2 Ghz Xeon P4<br>512 MB RAM<br>2 x 36.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                              | 1 |
| 68 | DR | Hardware | Server & Storage | Server | IBM X-346  | 1 X 3.2Ghz Xeon Dual core<br>5 GB RAM<br>2. x 73.4 6 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 7K<br>2                   | 1 |
| 69 | DR | Hardware | Server & Storage | Server | IBM X-346  | 2 X 3.2Ghz Xeon Dual core<br>5 GB RAM<br>3. x 73.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 7K                          | 1 |

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|    |    |          |                  |        |            |                                                                                                                                                                   |   |
|----|----|----------|------------------|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |        |            | 2                                                                                                                                                                 |   |
| 70 | DR | Hardware | Server & Storage | Server | IBM X-366  | 4 X 3.16 Ghz Xeon Dual core<br>8 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters<br>1 x Raid 8ki | 1 |
| 71 | DR | Hardware | Server & Storage | Server | IBM X-3650 | 2 X 3.16 Ghz Xeon Dual core<br>3 GB RAM<br>5 x 146.8 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 8ki<br>2 x                            | 1 |
| 72 | DR | Hardware | Server & Storage | Server | IBM P-505  | 2X 1.5 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4 x 1 Giganet Ethernet ports                                                  | 1 |
| 73 | DR | Hardware | Server & Storage | Server | IBM X-3650 | 2 X 3.16 Ghz Xeon Dual core<br>3 GB RAM<br>5 x 146.8 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 8ki                                   | 1 |
| 74 | DR | Hardware | Server & Storage | Server | IBM X-3650 | 2 X 3.16 Ghz Xeon Dual core<br>3 GB RAM<br>5 x 146.8 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 8ki                                   | 1 |
| 75 | DR | Hardware | Server & Storage | Server | IBM X-306  | 1 X 3.2 Ghz Xeon P4<br>512 MB RAM<br>2 x 36.4 GB internal                                                                                                         | 1 |

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|    |    |          |                  |                    |            |                                                                                                                                                                 |   |
|----|----|----------|------------------|--------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    |    |          |                  |                    |            | disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                                                                                  |   |
| 76 | DR | Hardware | Server & Storage | Server             | IBM X-346  | 1 X 3.2 Ghz Xeon Dual core<br>5 GB RAM<br>3 X 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>3 x 2 Gbit fibre channel adapters<br>1 x Raid 7k | 1 |
| 77 | DR | Hardware | Server & Storage | Server             | IBM X-3650 | 2 X 3.16 Ghz Xeon Dual core<br>3 GB RAM<br>5 x 146.8 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports<br>1 x Raid 8ki                                 | 1 |
| 78 | DR | Hardware | Server & Storage | Server             | IBM P-520  | 1X 1.6 GHz Power 5 Cores, 4 gb ram , 2x 73 gb hard disk , 2x2 gb Fc card                                                                                        | 1 |
| 79 | DR | Hardware | Server & Storage | Server             | IBM P-550  | 4X 1.5GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD in RAID 1<br>4x1 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters              | 1 |
| 80 | DR | Hardware | Server & Storage | Server             | IBM X-306  | 1 X 3.2 Ghz Xeon P4<br>512 MB RAM<br>2 x 36.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                                        | 1 |
| 81 | DR | Hardware | Server & Storage | Storage Controller |            |                                                                                                                                                                 | 1 |
| 82 | DR | Hardware | Server & Storage | Storage & Backup   |            | 146 gb x 14 disks                                                                                                                                               | 1 |
| 83 | DR | Hardware | Server & Storage | Storage & Backup   |            | 146 gb x 14 disks                                                                                                                                               | 1 |

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|    |    |          |                  |                  |                 |                                                           |   |
|----|----|----------|------------------|------------------|-----------------|-----------------------------------------------------------|---|
| 84 | DR | Hardware | Server & Storage | Storage & Backup |                 | 146 gb x 14 disks                                         | 1 |
| 85 | DR | Hardware | Server & Storage | Storage & Backup |                 | 146 gb x 14 disks                                         | 1 |
| 86 | DR | Hardware | Server & Storage | Storage & Backup |                 | 146 gb x 14 disks                                         | 1 |
| 87 | DR | Hardware | Server & Storage | Storage & Backup |                 | 146 gb x 14 disks                                         | 1 |
| 88 | DR | Hardware | Server & Storage | Storage & Backup |                 | 146 gb x 14 disks                                         | 1 |
| 89 | DR | Hardware | Server & Storage | Storage & Backup |                 | 400gb x 14 disks                                          | 1 |
| 90 | DR | Hardware | Server & Storage | Storage & Backup |                 | 400 gb x 5 disks                                          | 1 |
| 91 | DR | Hardware | Server & Storage | SAN Switch       | SAN 256 B       | 2 directors                                               | 1 |
| 92 | DR | Hardware | Server & Storage | SAN Switch       | SAN 256 B       | 2 directors                                               | 1 |
| 93 | DR | Hardware | Server & Storage | Storage & Backup |                 | 16 x 146 gb disks                                         | 1 |
| 94 | DR | Hardware | Server & Storage | Tape Library     |                 |                                                           | 1 |
| 95 | DC | Hardware | Network          | Server Switch    | WS-C3750G-24T-S | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE | 1 |
| 96 | DC | Hardware | Network          | Server Switch    | WS-C3750G-24T-S | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE | 1 |
| 97 | DC | Hardware | Network          | Server Switch    | WS-C3750G-24T-S | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE | 1 |
| 98 | DC | Hardware | Network          | Server Switch    | WS-C3750G-24T-S | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE | 1 |
| 99 | DC | Hardware | Network          | Server Switch    | WS-C3750G-24T-S | CATALYST 3750 24 10/100/1000 T STANDARD MULTI             | 1 |

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|     |    |          |          |               |                    | LAYER IMAGE                                                 |   |
|-----|----|----------|----------|---------------|--------------------|-------------------------------------------------------------|---|
| 100 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 101 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 102 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 103 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 104 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 105 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 106 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 107 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 108 | DC | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE   | 1 |
| 109 | DC | Hardware | Security | AAA Server    | CSACSE-1113-K9     | CISCO SECURE ACS 3.3 (HW & SW)                              | 1 |
| 110 | DC | Hardware | Security | IDS           | PROVENTIA IPS G400 | PROVENTIA IPS G400 (HW & SW)                                | 1 |
| 111 | DC | Hardware | Security | Firewall      | PIX 535 Firewall   | PIX 535-UR BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND | 1 |

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|     |    |          |          |               |                  | ACCESSORIES                                                             |   |
|-----|----|----------|----------|---------------|------------------|-------------------------------------------------------------------------|---|
| 112 | DC | Hardware | Security | Firewall      | PIX 535 Firewall | PIX 535-FO BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES | 1 |
| 113 | DC | Hardware | Security | Firewall      | PIX 525 Firewall | PIX 525-UR BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES | 1 |
| 114 | DC | Hardware | Security | Firewall      | PIX 525 Firewall | PIX 525-FO BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES | 1 |
| 115 | DC | Hardware | Network  | Router        | CISCO7206VXR     | MPLS ROUTER HW & ACCESSORIES                                            | 1 |
| 116 | DC | Hardware | Network  | Router        | CISCO7206VXR     | MPLS ROUTER HW & ACCESSORIES                                            | 1 |
| 117 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 118 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 119 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 120 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 121 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 122 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S  | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |

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|     |    |          |          |               |                    |                                                                         |   |
|-----|----|----------|----------|---------------|--------------------|-------------------------------------------------------------------------|---|
| 123 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 124 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 125 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 126 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 127 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 128 | DR | Hardware | Network  | Server Switch | WS-C3750G-24T-S    | CATALYST 3750 24 10/100/1000 T STANDARD MULTI LAYER IMAGE               | 1 |
| 129 | DR | Hardware | Security | AAA Server    | CSACSE-1113-K9     | CISCO SECURE ACS 3.3 (HW & SW)                                          | 1 |
| 130 | DR | Hardware | Security | IDS           | PROVENTIA IPS G400 | PROVENTIA IPS G400 (HW & SW)                                            | 1 |
| 131 | DR | Hardware | Network  | Switch        | CSS11503-AC        | CISCO 11503 CONTENT SERVICES SWITCH SCM-2GE HD AC                       | 1 |
| 132 | DR | Hardware | Security | Firewall      | PIX 535 Firewall   | PIX 535-UR BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES | 1 |
| 133 | DR | Hardware | Security | Firewall      | PIX 535 Firewall   | PIX 535-FO BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES | 1 |
| 134 | DR | Hardware | Security | Firewall      | PIX 525 Firewall   | PIX 525-UR BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND             | 1 |

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|     |    |          |                  |               |                  | ACCESSORIES                                                                                                  |   |
|-----|----|----------|------------------|---------------|------------------|--------------------------------------------------------------------------------------------------------------|---|
| 135 | DR | Hardware | Security         | Firewall      | PIX 525 Firewall | PIX 525-FO BUNDLE (CHASSIS, UNRESTRICTED SW,2 FE, VAC+) AND ACCESSORIES                                      | 1 |
| 136 | DR | Hardware | Network          | Router        | CISCO7206VXR     | MPLS ROUTER HW & ACCESSORIES                                                                                 | 1 |
| 137 | DR | Hardware | Network          | Router        | CISCO7206VXR     | MPLS ROUTER HW & ACCESSORIES                                                                                 | 1 |
| 138 | DC | Hardware | Network          | Load Balancer | CISCO-CSS11500   | LOAD BALANCER                                                                                                | 1 |
| 139 | DC | Hardware | Network          | Load Balancer | CISCO-CSS11500   | LOAD BALANCER                                                                                                | 1 |
| 140 | DC | Hardware | Server & Storage | Server        | IBM X-3850M2     | 2 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 146 GB INTERNAL DISKS<br>2 X 1 GIGANET ETHERNET PORTS         | 1 |
| 141 | DC | Hardware | Server & Storage | Server        | IBM X-3850M2     | 2 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 73.4 GB INTERNAL DISKS<br>2 X 1 GIGANET ETHERNET PORTS        | 1 |
| 142 | DC | Hardware | Server & Storage | Server        | IBM X-3850M2     | 4 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS | 1 |
| 143 | DC | Hardware | Server & Storage | Server        | IBM X-3850M2     | 4 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS | 1 |

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|     |    |          |                  |        |              |                                                                                                                                                   |   |
|-----|----|----------|------------------|--------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 144 | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS                                      | 1 |
| 145 | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 GHZ XEON QUAD CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS                                      | 1 |
| 146 | DC | Hardware | Server & Storage | Server | IBM X-3350   | 1 X 3 GHZ XEON DUAL CORE<br>2 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS                                         | 1 |
| 147 | DC | Hardware | Server & Storage | Server | IBM X-3350   | 1 X 3 GHZ XEON DUAL CORE<br>2 GB RAM<br>2 X 73 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS                                         | 1 |
| 148 | DC | Hardware | Server & Storage | Server | IBM P-520    | 1X 1.9 GHZ POWER 5 CORES<br>4 GB RAM<br>2 X 73.4 GB INTERNAL DISKS HDD IN RAID 1<br>4 GIGANET ETHERNET PORTS<br>2 X 2 GBIT FIBRE CHANNEL ADAPTERS | 1 |
| 149 | DC | Hardware | Server & Storage | Server | IBM P-520    | 1X 1.9 GHZ POWER 5 CORES<br>4 GB RAM<br>2 X 73.4 GB INTERNAL DISKS HDD IN RAID 1<br>4 GIGANET ETHERNET PORTS<br>2 X 2 GBIT FIBRE CHANNEL ADAPTERS | 1 |
| 150 | DC | Hardware | Server & Storage | Server | IBM X-3650   | 2 X 3 GHZ XEON DUAL CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL                                                                                        | 1 |

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|     |    |          |                     |        |            |                                                                                                                                                              |   |
|-----|----|----------|---------------------|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     |    |          |                     |        |            | DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS                                                                                                            |   |
| 151 | DC | Hardware | Server &<br>Storage | Server | IBM X-3650 | 2 X 3 GHZ XEON DUAL<br>CORE<br>8 GB RAM<br>2 X 73 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS                                           | 1 |
| 152 | DC | Hardware | Server &<br>Storage | Server | IBM X-346  | 1 X 3.2 GHZ XEON<br>DUAL CORE<br>3 GB RAM<br>5 X 73 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS<br>3 X 2 GBIT FIBRE<br>CHANNEL ADAPTERS | 1 |
| 153 | DC | Hardware | Server &<br>Storage | Server | IBM X-346  | 1 X 3.2 GHZ XEON<br>DUAL CORE<br>3 GB RAM<br>4 X 73 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS<br>3 X 2 GBIT FIBRE<br>CHANNEL ADAPTERS | 1 |
| 154 | DC | Hardware | Server &<br>Storage | Server | IBM X-346  | 1 X 3.2 GHZ XEON<br>DUAL CORE<br>3 GB RAM<br>5 X 73 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS                                         | 1 |
| 155 | DC | Hardware | Server &<br>Storage | Server | IBM X-306  | 1 X 3.2 GHZ XEON P4<br>512 MB RAM<br>2 X 36.4 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS                                               | 1 |
| 156 | DC | Hardware | Server &<br>Storage | Server | IBM X-306  | 1 X 3.2 GHZ XEON P4<br>1 GB RAM<br>2 X 36.4 GB INTERNAL<br>DISKS MIRRORED<br>2 X 1 GIGANET<br>ETHERNET PORTS                                                 | 1 |

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|     |    |          |                  |        |              |                                                                                                                                             |   |
|-----|----|----------|------------------|--------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|---|
| 157 | DC | Hardware | Server & Storage | Server | IBM X-306    | 1 X 3.2 Ghz Xeon P4<br>512 MB RAM<br>2 x 36.4 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                    | 1 |
| 158 | DC | Hardware | Server & Storage | Server | IBM X-346    | 1 X 3.2 GHZ XEON P4<br>5 GB RAM<br>3 X 73.4 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS<br>3 X 2 GBIT FIBRE CHANNEL ADAPTERS | 1 |
| 159 | DC | Hardware | Server & Storage | Server | IBM X-346    | 1 X 3.2 GHZ XEON P4<br>5 GB RAM<br>3 X 73.4 GB INTERNAL DISKS MIRRORED<br>2 X 1 GIGANET ETHERNET PORTS<br>3 X 2 GBIT FIBRE CHANNEL ADAPTERS | 1 |
| 160 | DC | Hardware | Server & Storage | Server | IBM P-505    | 1 X 1.9 GHZ POWER 5 CORES<br>4 GB RAM<br>2 X 73.4 GB INTERNAL DISKS HDD IN RAID 1<br>2 GIGANET ETHERNET PORTS                               | 1 |
| 161 | DC | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 3 Ghz Xeon Dualcore<br>8 GB RAM<br>2 x 73 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                    | 1 |
| 162 | DC | Hardware | Server & Storage | Server | IBM X-3250   | 1 X 3 Ghz Xeon Dualcore<br>8 GB RAM<br>2 x 146 GB internal disks mirrored<br>2 X 1 Giganet Ethernet Ports                                   | 1 |
| 163 | DC | Hardware | Server & Storage | Server | IBM P-550    | 4 X 1.9 GHz Power 5 cores<br>16GB RAM<br>2 X 73.4 GB Internal Disks HDD in RAID 1<br>4 x1 Giganet Ethernet ports                            | 1 |

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|     |    |          |                  |        |           |                                                                                                                                                     |   |
|-----|----|----------|------------------|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     |    |          |                  |        |           | 2 x 2 Gbit fibre channel adapters                                                                                                                   |   |
| 164 | DC | Hardware | Server & Storage | Server | IBM P-520 | 2 X 1.9 GHz Power 5 cores<br>16 GB RAM<br>2 X 73.4 GB Internal Disks HDD in RAID 1<br>4 Giganet Ethernet ports<br>2 x 2 Gbit fibre channel adapters | 1 |
| 165 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.2 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports                   | 1 |
| 166 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.2 Ghz Xeon Dual core<br>4GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports                    | 1 |
| 167 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.50 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet Ports                      | 1 |
| 168 | DC | Hardware | Server & Storage | Server | IBM X-346 | 1 X 3.50 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet Ports                      | 1 |

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|     |    |          |                  |        |            |                                                                                                                                                                     |   |
|-----|----|----------|------------------|--------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 169 | DC | Hardware | Server & Storage | Server | IBM P-505  | 2 x1.5 POWER 5 PROCESSOR<br>8 GB RAM,<br>2x73 GB internal disks mirrored,<br>4 X 1 Giganet Ethernet Ports                                                           | 1 |
| 170 | DC | Hardware | Server & Storage | Server | IBM P-505  | 1 x1.6 POWER 5 PROCESSOR<br>4 GB RAM,<br>2x73 GB internal disks mirrored,<br>4 X 1 Giganet Ethernet Ports                                                           | 1 |
| 171 | DC | Hardware | Server & Storage | Server | IBM P-505  | 1 x1.6 POWER 5 PROCESSOR<br>4 GB RAM,<br>2x73 GB internal disks mirrored,<br>4 X 1 Giganet Ethernet Ports                                                           | 1 |
| 172 | DC | Hardware | Server & Storage | Server | IBM X-3650 | 2X 3. Ghz Xeon Dual core<br>9 GB RAM<br>2 X 73 GB internal disks mirrored<br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports                                         | 1 |
| 173 | DC | Hardware | Server & Storage | Server | IBM X-346  | 2 X 3.2 Ghz Xeon Dual core<br>4 GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports<br>2x2 Gbit Fibre channel adapter | 1 |
| 174 | DC | Hardware | Server & Storage | Server | IBM X-346  | 1 X 3.2 Ghz Xeon Dual core<br>2 GB RAM<br>2 X 73 GB internal disks mirrored<br><br>1 CD ROM Drive<br>2 X 1 Giganet Ethernet ports<br>2x2 Gbit Fibre channel         | 1 |

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|     |    |          |                  |        |              |                                                                                                                               |   |
|-----|----|----------|------------------|--------|--------------|-------------------------------------------------------------------------------------------------------------------------------|---|
|     |    |          |                  |        |              | adapter                                                                                                                       |   |
| 175 | DC | Hardware | Server & Storage | Server | IBM P-520    | 2X 1.9 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x 1 Giganet Ethernet ports                        | 1 |
| 176 | DC | Hardware | Server & Storage | server | IBM P-520    | 2X 1.9 GHz Power 5 Cores<br>5 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x 1 Giganet Ethernet ports                        | 1 |
| 177 | DC | Hardware | Server & Storage | server | IBM P-520    | 2X 1.9 GHz Power 5 Cores<br>8 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x 1 Giganet Ethernet ports<br>1 x 2 GB FC adapter | 1 |
| 178 | DC | Hardware | Server & Storage | server | IBM P-505    | 4 GB RAM<br>2 x 73.4 GB Internal Disks HDD<br>2 x2 Giganet Ethernet ports                                                     | 1 |
| 179 | DC | Hardware | Server & Storage | Server | IBM X-306    | 1 X 3.2 Ghz Intel Pentium Processors<br><br>512 MB RAM<br>2 X 36.4 GB HDD<br>2 X 1 Giganet Ethernet ports                     | 1 |
| 180 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core, 8 Gb ram , 4 x 73.4 GB Internal Disks HDD in RAID 1                                              | 1 |
| 181 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 2 X 2.93 Ghz Xeon Quad core , 8 gb ram , 2 X 73.4 GB internal disks mirrored                                                  | 1 |

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|     |    |          |                  |        |              |                                                                                                                                                |   |
|-----|----|----------|------------------|--------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 182 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core ,8 gb ram , 2 X 73.4 GB internal disks mirrored                                                                    | 1 |
| 183 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core , 8 GB RAM , 2 X 73.4 GB internal disks mirrored                                                                   | 1 |
| 184 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 2 X 2.93 Ghz Xeon Quad core , 8 GB RAM , 2 X 73.4 GB internal disks mirrored                                                                   | 1 |
| 185 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4 X 2.93 Ghz Xeon Quad core , 8 GB RAM , 2 X 73.4 GB internal disks mirrored                                                                   | 1 |
| 186 | DR | Hardware | Server & Storage | Server | IBM P-550    | 4X 1.9 GHz Power 5 Cores, 28 gb ram , 2 x 73.4 GB Internal Disks HDD in RAID 1 , 4X1 Giganet Ethernet ports, 2 x 2 Gbit fibre channel adapters | 1 |
| 187 | DR | Hardware | Server & Storage | Server | IBM x-346    | 1 X 3.2Ghz Xeon Dual core , 5 gb ram , 3 x 73.4 GB internal disks mirrored , 2 X 1 Giganet Ethernet Ports , 2 x 2 Gbit fibre channel           | 1 |
| 188 | DR | Hardware | Server & Storage | Server | IBM P-505    | 2X 1.9 GHz Power 5 Cores , 6 GB RAM , 2 x 73.4 GB Internal Disks HDD in RAID 1 , 4x1 Giganet Ethernet ports                                    | 1 |
| 189 | DR | Hardware | Server & Storage | Server | IBM x-346    | 1 X 3.2Ghz Xeon Dual core , 5 gb ram , 3 x 73.4 GB internal disks mirrored , 2 X 1 Giganet Ethernet Ports                                      | 1 |
| 190 | DR | Hardware | Server & Storage | Server | IBM X-3850M2 | 4x2.13 Ghz Xeon Quad core , 8 GB RAM , 2 x 146 GB internal disks mirrored , 2 X 1 Giganet Ethernet Ports                                       | 1 |
| 191 | DR | Hardware | Server & Storage | Server | IBM X-306    | 1 X 3.2 Ghz Xeon P4 ,512 MB RAM, 2 x 36.4 GB internal disks                                                                                    | 1 |

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|     |    |          |                  |                    |                               |                                                                                                             |   |
|-----|----|----------|------------------|--------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------|---|
|     |    |          |                  |                    |                               | mirrored, 2 X 1 Giganet Ethernet Ports                                                                      |   |
| 192 | DR | Hardware | Server & Storage | Server             | IBM X-346                     | 2 X 3.16 Ghz Xeon Dual core , 2 GB RAM , 2 x 73.4 GB internal disks mirrored , 2 X 1 Giganet Ethernet Ports | 1 |
| 193 | DR | Hardware | Server & Storage | Server             | IBM X-346                     | 1 X 3.16 Ghz Xeon Dual core , 4 GB RAM , 5 x 73.4 GB internal disks mirrored , 2 X 1 Giganet Ethernet Ports | 1 |
| 194 | DR | Hardware | Server & Storage | Server             | IBM X-346                     | 2 X 3.2 Ghz Xeon Dual core , 3 GB RAM , 3 X 73 GB internal disks mirrored                                   | 1 |
| 195 | DC | Hardware | Server & Storage | Storage Controller | DS 4800 Disk System           | DS 4800 Disk System                                                                                         | 1 |
| 196 | DC | Hardware | Server & Storage | Expansion 810      | DS 4000 EXP810 STRG. EXP Unit | DS 4000 EXP810 STRG. EXP Unit                                                                               | 1 |
| 197 | DC | Hardware | Server & Storage | SAN Switch         | SAN 16 port FC Switch         | SAN 16 port FC Switch                                                                                       | 1 |
| 199 | DR | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 200 | DR | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 201 | DR | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 202 | DR | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 203 | DC | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 204 | DC | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 205 | DC | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 206 | DC | Hardware | Desktop          | User desktop       | CMS                           |                                                                                                             | 1 |
| 207 | DC | Network  | Switch           | Switch             | Switch-catalyst(2950)         |                                                                                                             | 1 |

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|     |         |          |                        |                                          |                          |                                    |    |
|-----|---------|----------|------------------------|------------------------------------------|--------------------------|------------------------------------|----|
| 208 | DC      | Network  | Switch                 | Switch                                   | Switch-catalyst(2950)    |                                    | 1  |
| 209 | DC      | Network  | Switch                 | KVM Switch                               | 17351DX                  |                                    | 1  |
| 210 | DC      | Network  | Switch                 | KVM Switch                               | 17351DX                  |                                    | 1  |
| 211 | DC      | Network  | Network                | Monitor                                  | 7316TF3                  |                                    | 1  |
| 212 | DC      | Network  | Network                | Monitor                                  | 7316TF3                  |                                    | 1  |
| 213 | DC      | Network  | Network                | Monitor                                  | 7316TF3                  |                                    | 1  |
| 214 | DC      | Network  | Network                | Monitor                                  | 7316TF3                  |                                    | 1  |
| 215 | DC      | Network  | HMC                    | HMC                                      | IBM X-3550               |                                    | 1  |
| 216 | DC      | Network  | Network                | Modem                                    | ASMi-52A/E1B/2W/E TH/SW  |                                    | 1  |
| 217 | DR      | Hardware | Network                | KVM Switch                               |                          |                                    | 1  |
| 218 | DC & DR | Software | Peripheral Application | BALM for 15 users                        | Surya Soft               | BALM for 1 5 users                 | 1  |
| 219 | DC & DR | Software | Peripheral Application | GBM-Bonds Module-Upto 300 Branches       | Telesys Glo bal Limited. | GBM-Bonds Module                   | 1  |
| 220 | DC & DR | Software | Peripheral Application | GBM-Pension Module-Upto 300 Branches     | Telesys Glo bal Limited. | GBM-Pension Module                 | 1  |
| 221 | DC & DR | Software | Peripheral Application | GBM-Tax Module-Upto 300 Branches         | Telesys Glo bal Limited. | GBM-Tax-CBDT Module                | 1  |
| 222 | DC & DR | Software | RDBMS                  | Oracle ASFU (Finacle, MIS and CSIS)      | Oracle                   | Oracle ASFU                        | 14 |
| 223 | DC & DR | Software | RDBMS                  | Oracle Full Use Enterprise edition (GBM) | Oracle                   | Oracle Full Use Enterprise edition | 2  |

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|     |         |          |                 |                                                                                                      |                    |                                                                                                      |      |
|-----|---------|----------|-----------------|------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------|------|
| 224 | DC & DR | Software | RDBMS           | Oracle ASFU Named user (Finacle testing, dev)                                                        | Oracle             | Oracle ASFU Names user                                                                               | 100  |
| 225 | DC & DR | Software | RDBMS           | Microsoft SQL Server 2005                                                                            | Microsoft SQL 2005 | Microsoft SQL Server 2005 Enterprise                                                                 | 2    |
| 226 | DC & DR | Software | RDBMS           | Microsoft SQL Server 2005                                                                            | Microsoft SQL 2005 | Microsoft SQL Server 2005 Standard                                                                   | 7    |
| 227 | DC & DR | Software | RDBMS           | Microsoft SQL Server                                                                                 | Microsoft SQL      | Microsoft SQL Server Enterprise Proc                                                                 | 2    |
| 228 | DC & DR | Software | RDBMS           | Microsoft SQL Server                                                                                 | Microsoft SQL      | Microsoft SQL Server Standard Proc                                                                   | 2    |
| 229 | DC & DR | Software | RDBMS           | Microsoft SQL CAL                                                                                    | Microsoft SQL      | Microsoft SQL CAL                                                                                    | 55   |
| 230 | DC & DR | Software | SMS Application | Air2Web                                                                                              | Air2Web            | Air2Web Annual License                                                                               | 1    |
| 231 | DC & DR | Software | EMS             | IBM Tivoli Monitoring 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal       | IBM Tivoli         | IBM Tivoli Monitoring 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal       | 1940 |
| 232 | DC & DR | Software | EMS             | IBM CommonStore for Lotus Domino Authorized User Value Unit Annual SW Subscription & Support Renewal | IBM Tivoli         | IBM CommonStore for Lotus Domino Authorized User Value Unit Annual SW Subscription & Support Renewal | 1075 |

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|     |               |          |     |                                                                                                           |            |                                                                                                                                            |      |
|-----|---------------|----------|-----|-----------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|
| 233 | DC<br>&<br>DR | Software | EMS | IBM Lotus Domino Enterprise Server Processor Value Unit (PVU) Annual SW Subscription & Support Renewal    | IBM Tivoli | IBM Lotus Domino Enterprise Server Processor Value Unit (PVU) Annual SW Subscription & Support Renewal                                     | 1200 |
| 234 | DC<br>&<br>DR | Software | EMS | IBM Lotus Domino Messaging Client Access License Authorized User Annual SW Subscription & Support Renewal | IBM Tivoli | IBM Lotus Domino Messaging Client Access License Authorized User Annual SW Subscription & Support Renewal                                  | 2000 |
| 235 | DC<br>&<br>DR | Software | EMS | IBM Lotus Domino Messaging Server Processor Value Unit (PVU) Annual SW Subscription & Support Renewal     | IBM Tivoli | IBM Lotus Domino Messaging Server Processor Value Unit (PVU) Annual SW Subscription & Support Renewal                                      | 200  |
| 236 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Composite Application Manager For Applications 3 Agent Pack Processor Value Unit               | IBM Tivoli | IBM Tivoli Composite Application Manager For Applications 3 Agent Pack Processor Value Unit (PVU) Annual SW Subscription & Support Renewal | 6100 |

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|     |               |          |     |                                                                                                                                                                |            |                                                                                                                                                  |      |
|-----|---------------|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|
|     |               |          |     | (PVU)<br>Annual SW<br>Subscription<br>&<br>Support<br>Renewal                                                                                                  |            |                                                                                                                                                  |      |
| 237 | DC<br>&<br>DR | Software | EMS | IBM Lotus<br>Domino<br>Utility<br>Express<br>Processor<br>Value Unit<br>(PVU)<br>Annual SW<br>Subscription<br>&<br>Support<br>Renewal                          | IBM Tivoli | IBM Lotus Domino<br>Utility Express<br>Processor Value Unit<br>(PVU) Annual SW<br>Subscription & Support<br>Renewal                              | 400  |
| 238 | DC<br>&<br>DR | Software | EMS | IBM Tivoli<br>Enterprise<br>Console 10<br>Processor<br>Value Units<br>(PVUs)<br>Annual SW<br>Subscription<br>&<br>Support<br>Renewal                           | IBM Tivoli | IBM Tivoli Enterprise<br>Console 10 Processor<br>Value Units (PVUs)<br>Annual SW<br>Subscription & Support<br>Renewal                            | 1940 |
| 239 | DC<br>&<br>DR | Software | EMS | IBM Tivoli<br>OMNibus<br>and<br>Network<br>Manager<br>Base Install<br>from Tivoli<br>Netview<br>Trade Up<br>License +<br>SW<br>Subscription<br>&<br>Support 12 | IBM Tivoli | IBM Tivoli OMNibus<br>and Network Manager<br>Base Install from Tivoli<br>Netview Trade Up<br>License + SW<br>Subscription & Support<br>12 Months | 2    |

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|     |               |          |     | Months                                                                                                                                                                                |            |                                                                                                                                                                                       |      |
|-----|---------------|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 240 | DC<br>&<br>DR | Software | EMS | IBM Tivoli OMNibus and Network Manager Entry Tier Resource Value Unit from Tivoli Netview Trade Up License + SW Subscription & Support 12 Months                                      | IBM Tivoli | IBM Tivoli OMNibus and Network Manager Entry Tier Resource Value Unit from Tivoli Netview Trade Up License + SW Subscription & Support 12 Months                                      | 701  |
| 241 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Provisioning Manager for Software (previously named: Tivoli Configuration Manager / TCM licenses) 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal | IBM Tivoli | IBM Tivoli Provisioning Manager for Software (previously named: Tivoli Configuration Manager / TCM licenses) 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal | 1940 |

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|     |               |          |     |                                                                                                           |            |                                                                                                                      |      |
|-----|---------------|----------|-----|-----------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------|------|
| 242 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Remote Control 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal        | IBM Tivoli | IBM Tivoli Remote Control 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal                   | 1340 |
| 243 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Service Level Advisor 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal | IBM Tivoli | IBM Tivoli Service Level Advisor 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal            | 1940 |
| 244 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Storage Manager                                                                                | IBM Tivoli | IBM Tivoli Storage Manager Extended Edition 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal | 1250 |
| 245 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Storage Manager for Databases 10 Processor                                                     | IBM Tivoli | IBM Tivoli Storage Manager for Databases 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal    | 560  |
| 246 | DC<br>&<br>DR | Software | EMS | IBM Tivoli Storage Manager for Mail 10 Processor Value Units (PVUs) Annual SW Subscription                | IBM Tivoli | IBM Tivoli Storage Manager for Mail 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal         | 220  |

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|     |               |          |                    | n &<br>Support<br>Renewal                                                                                                                                            |                       |                                                                                                                                             |           |
|-----|---------------|----------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 247 | DC<br>&<br>DR | Software | EMS                | IBM Tivoli<br>Storage<br>Manager<br>Storage<br>Area<br>Networks<br>10<br>Processor<br>Value Units<br>(PVUs)<br>Annual SW<br>Subscriptio<br>n &<br>Support<br>Renewal | IBM Tivoli            | IBM Tivoli Storage<br>Manager Storage Area<br>Networks 10 Processor<br>Value Units (PVUs)<br>Annual SW<br>Subscription & Support<br>Renewal | 770       |
| 248 | DC<br>&<br>DR | Software | System<br>Software | Microsoft<br>Win dows<br>2003 st<br>andard<br>Edition                                                                                                                | Microsoft             | Microsoft Win dows<br>2008 standard Edition                                                                                                 | 2—<br>17  |
| 249 | DC<br>&<br>DR | Software | System<br>Software | Microsoft<br>Win dows<br>2003<br>Enterprise<br>Edition                                                                                                               | Microsoft             | Microsoft Win dows<br>2003 Enterprise Edition                                                                                               | 35—<br>37 |
| 250 | DC<br>&<br>DR | Software | System<br>Software | Microsoft<br>Win dows<br>CAL                                                                                                                                         | Microsoft             | Microsoft Win dows<br>CAL licenses                                                                                                          | 165       |
| 251 | DC<br>&<br>DR | Software | Anti Virus         | Trend Micro<br>Neat Suite<br>Advanced                                                                                                                                | TrendMicro            | Trend Micro Neat Suite                                                                                                                      | 1000      |
| 252 | DC<br>&<br>DR | Software | Security           | Host IDS                                                                                                                                                             | Real Secure<br>Server | RealSecure Server<br>Sensor (RSV)                                                                                                           | 46        |
| 253 | DC<br>&<br>DR | Software | Security           | Host IDS                                                                                                                                                             | Real Secure<br>Server | G400 Appliance                                                                                                                              | 2         |
| 254 | DC<br>&       | Software | Security           | Security<br>Policy<br>Managemen                                                                                                                                      | NetIQ                 | 5759-1v510-I-US:<br>NetIQ Security                                                                                                          | 2         |

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|     | DR      |          |                  | t Solution                          |                       | Manager v5.1 Console                                       |    |
|-----|---------|----------|------------------|-------------------------------------|-----------------------|------------------------------------------------------------|----|
| 255 | DC & DR | Software | Security         | Security Policy Management Solution | NetIQ                 | 5768-1v000-I-US: NetIQ Security Manager for Windows Server | 23 |
| 256 | DC & DR | Software | Security         | Security Policy Management Solution | NetIQ                 | 5762-1v000-I-US: NetIQ Security Manager for Firewalls      | 8  |
| 257 | DC & DR | Software | Security         | Security Policy Management Solution | NetIQ                 | 5766-1v000-I-US: NetIQ Security Manager for Unix Server    | 12 |
| 258 | DC & DR | Software | Security         | Security Policy Management Solution | NetIQ                 | 5763-1v000-I-US: NetIQ Security Manager for Host IDS       | 10 |
| 259 | DC & DR | Software | Security         | Security Policy Management Solution | NetIQ                 | 5764-1v000-I-US: NetIQ Security Manager for Network IDS    | 2  |
| 260 | DC      | Hardware | Server & Storage | Server                              | IBM P 550 / IBM P 570 |                                                            | 1  |
| 261 | DC      | Hardware | Server & Storage | Server                              | IBM P 550 / IBM P 570 |                                                            | 1  |
| 262 | DC      | Hardware | Server & Storage | Server                              | IBM P 550 / IBM P 570 |                                                            | 1  |
| 263 | DC      | Hardware | Server & Storage | Memory Upgrade                      | IBM P-520             |                                                            | 1  |
| 264 | DC      | Hardware | Server & Storage | Memory Upgrade                      | IBM P-520             |                                                            | 1  |
| 265 | DC      | Hardware | Server & Storage | Memory Upgrade                      | IBM P-505             |                                                            | 1  |
| 266 | DC      | Hardware | Server & Storage | Memory Upgrade                      | IBM P-505             |                                                            | 1  |
| 267 | DC      | Hardware | Server & Storage | Memory Upgrade                      | IBM P-505             |                                                            | 1  |
| 268 | DC      | Hardware | Server & Storage | Server                              | IBM p 520             |                                                            | 1  |
| 269 | DC      | Hardware | Server & Storage | Server                              | IBM p 520             |                                                            | 1  |

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|     |    |          |                  |                  |                       |  |   |
|-----|----|----------|------------------|------------------|-----------------------|--|---|
| 270 | DC | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 271 | DC | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 272 | DC | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 273 | DC | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 274 | DC | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 275 | DC | Hardware | Server & Storage | Storage & Backup |                       |  | 1 |
| 276 | DC | Hardware | Server & Storage | Storage & Backup |                       |  | 1 |
| 277 | DC | Hardware | Server & Storage | Storage & Backup |                       |  | 1 |
| 278 | DR | Hardware | Server & Storage | Server           | IBM P550 / IBM P570   |  | 1 |
| 279 | DR | Hardware | Server & Storage | Server           | IBM P550 / IBM P570   |  | 1 |
| 280 | DR | Hardware | Server & Storage | Memory Upgrade   | IBM P-505             |  | 1 |
| 281 | DR | Hardware | Server & Storage | Server           | IBM P 550 / IBM P 560 |  | 1 |
| 282 | DR | Hardware | Server & Storage | Memory Upgrade   | IBM P-520             |  | 1 |
| 283 | DR | Hardware | Server & Storage | Memory Upgrade   | IBM P-520             |  | 1 |
| 284 | DR | Hardware | Server & Storage | Memory Upgrade   | IBM P-505             |  | 1 |
| 285 | DR | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 286 | DR | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 287 | DR | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |
| 288 | DR | Hardware | Server & Storage | Server           | IBM 3550-M2           |  | 1 |

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|     |         |          |                       |                                                    |             |  |     |
|-----|---------|----------|-----------------------|----------------------------------------------------|-------------|--|-----|
| 289 | DR      | Hardware | Server & Storage      | Server                                             | IBM 3550-M2 |  | 1   |
| 290 | DR      | Hardware | Server & Storage      | Storage & Backup                                   |             |  | 1   |
| 291 | DR      | Hardware | Server & Storage      | Storage & Backup                                   |             |  | 1   |
| 292 | DR      | Hardware | Server & Storage      | Storage & Backup                                   |             |  | 1   |
| 293 | DC & DR | Software | Core Banking Solution | Infosys Finacle Core Banking Solution (with RESIN) | Infosys     |  | 500 |
| 294 | DC & DR | Software | eBanking Solution     | Infosys Finacle Core Banking Solution              | Infosys     |  | 1   |
| 295 | DC & DR | Software | Translation           | Translation                                        |             |  | 1   |
|     |         |          |                       |                                                    |             |  |     |