

# REQUEST FOR PROPOSAL



May, 2015

**"SUPPORT & MAINTENANCE OF HARDWARE, IT EQUIPMENT,  
POWER SUPPLIES, SURVEILLANCE, MONITORING & FIRE  
SUPPRESSION SYSTEM OF VARIOUS OFFICES ACROSS THE  
PROVINCE" UNDER THE SCHEME "LARMIS"**



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**PROJECT MANAGEMENT UNIT  
REFORMS WING & SPECIAL CELL  
BOARD OF REVENUE, GOVERNMENT OF SINDH**

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## Definitions

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

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

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

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

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

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

“Government” means the Government of Sindh.

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

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

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

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

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



## INVITATION TO BID

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh (hereinafter referred to as Purchaser), invites sealed bids from eligible bidders for **"SUPPORT & MAINTENANCE OF HARDWARE, IT EQUIPMENT, POWER SUPPLIES, SURVEILLANCE, MONITORING & FIRE SUPPRESSION SYSTEM OF VARIOUS OFFICES ACROSS THE PROVINCE" UNDER THE SCHEME "LARMIS"** of the Project Management Unit, Board of Revenue Sindh.

1. Tender Bids in sealed envelope as per information are required. Interested bidders applying for bids should submit one single envelope containing the technical & financial proposal. The interested bidder must have valid NTN, GST, PST registration certificates as a precondition for their eligibility for participation in the bidding process.
2. The bidder must quote for the complete specification. The uncompleted bid will be rejected as non-responsive.
3. The bidder must bid for the complete package. Bidding for individual items will be rejected as non-responsive.
4. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
5. Interested eligible bidders may obtain further information on the bid and collect the bidding documents from the office of Project Director PMU, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi, Tel: +92-21-99251367 / Fax: +92-21-99251373 from the date of advertisement during office Hours, i.e. from 9:00 am to 5:00 pm on payment of document fee of Rs. 2,000/- in the form of Pay order/Demand Draft in favour of Project Director PMU, Board of Revenue, Sindh. The bidding document can also be downloaded from the website of SPPRA or the website of the Board of Revenue Sindh, i.e., in which case document fee may be submitted along with the bid. Only the bids submitted with the document fee or proof of payment thereof will be considered as eligible for participating in the bidding process.
6. All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of 'pay order', 'demand draft' or 'bank guarantee' in the name of Project Director Project Management Unit, Board of Revenue, Sindh, and must be accompanied with the bid in a separate sealed envelope marked as "Earnest Money/Bid Security". Bid without earnest money/bid security of required amount and prescribed form shall be rejected.
7. Reforms Wing & Special Cell, Board of Revenue, Government of Sindh will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.
8. The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.





9. The Procuring Agency shall have right of rejecting all or any of the tenders as per Sindh Public Procurement Rules 2010.

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

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

12. Execution/installation of all the components of the bid may be at Purchaser's or any remote offices located at other areas or as per the decision of Purchaser at the time of deployment.

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

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

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

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

-sd/-

**Project Director  
Project Management Unit  
Board of Revenue Sindh**



## General Terms & Conditions

- Bids not conforming to the terms, conditions and specifications stipulated in this RFP will be rejected.
- Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh invites this tender under single stage - one envelope procedure, under SPPR 2010.
- Proposal after due date and time will not be accepted for any reason. Proposals must not be sent by Facsimile or e-mail. Such submissions will not be accepted for any reason.
- Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned below:
  - (i) Relevant experience;
  - (ii) Turn-over of at least last three years;
  - (iii) Registration with Income Tax, Sales Tax & Provincial Sales Tax (SRB);
  - (iv) Bid Security;
  - (v) Document Fee / Tender Fee (Non-Refundable);
  - (vi) Affidavit that the firm is not blacklisted; &
  - (vii) Any other information as required under the Evaluation Criteria of this bidding document;
- The bidder must bid for the complete package. Bidding for individual items will be rejected as non-responsive.
- All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
  - (i) **Bid Security & Performance Security**
    - All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of 'pay order', 'demand draft' or 'bank guarantee' in the name of Project Director PMU, Board of Revenue, Sindh, and must be accompanied with the bid in a separate sealed envelope marked as "Earnest Money/Bid Security". Bid without earnest money/bid security of required amount and prescribed form shall be rejected.
    - The bid security of the unsuccessful bidder will be released by PMU, Board of Revenue Sindh after award of work or after expiry of bid validity period whereas the bid security money of successful bidder will be released after the submission of performance security equivalent to 5% of contract price.
    - The performance security of the successful bidder will be released after issuance of successful completion certificate by the Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh.



- All/any terms and conditions not specified here shall be dealt with reference to pertinent SPPRA Rules 2010.

**(ii) Validity of the proposal**

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

**(iii) Currency**

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

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

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

**(v) OEM relationships**

- The support and Maintenance should be supplied through verifiable distribution channel in Pakistan.
- The responding organization (RO) or one of the Joint Bidding Company to be authorized Partner/ Reseller, OF THE ORIGINAL MANUFACTURER.

**(vi) Compliance to Specifications**

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

**(vii) Financial Capabilities**

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

**(viii) Penalty Clause**

- It is utmost importance that schedule to tender should be filled in very carefully and the instructions set forth above, scrupulously complied with failing which the offer will be ignored. In case of non-completion of supplies and services within stipulated period Earnest Money will be forfeited in favor of the Project Management Unit, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, Karachi. Besides



liquidated damages of 0.025% per day of the contract price per day will be deducted for delayed delivery of goods and services.

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

1. Company Profile with complete address, telephone No. Fax. No. and e-mail address and contact person.
2. Letter or Agreement of Authorized Partner from the principal or Distributor of this region to install, integrate and operate such systems.
3. Partnership / Reseller letter or agreement copy which authorize Bidder to sell or market the proposed IT, Hardware & Electronic equipment in Pakistan.
4. Document Fee and Bid Security of the specified form and amount as per RFP.
5. Bid must be signed, named and stamped by the authorized person of the firm along with authorization letter
6. Authenticated Financial Statements of last three years should also be submitted with Technical Proposals
7. Valid NTN, GST, PST, Professional Tax and any other valid Tax Registration Certificate required by law in force.
8. In case of joint venture, names, company profiles, NTN, GST, PST Registration Certificates and authorization letter of the JV Partner on Stamp Paper of the prescribed denomination to bid on its behalf duly attested by the authorized Oath Commissioner / Notary Public shall be required.
9. Details of Installed Infrastructure if available at Bidders office for Backup support.
10. Hot Spare or Back-up Units Details.
11. Drawings, operational manuals and brochures of the products and services offered.
12. Complete schedule Support & Maintenance is to be provided.
13. Ability to provide after sales support.

**Selection Criteria**

Single stage one-envelop procedure will be used for the final selection of the vendor for the subject procurement process. Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned in General Terms & Conditions. All bids





received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

#### **Instructions for Responding Organizations**

##### **Communication**

Enquiries regarding this RFP shall be submitted in writing/email to:  
Project Director, PMU, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi, Tel: +92-21-99251367 / Fax: +92-21-99251373.

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

Proposal should be submitted on or before Friday 5<sup>th</sup> June 2015 at 02:00 PM at the address given below:

*Project Director, PMU, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi.  
Tel: +92-21-99251367 / Fax: +92-21-99251373.*

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

##### **Submission of Proposal**

The bidder must bid for the complete package. Bidding for individual items from the package will be rejected as non-responsive. Proposals can be submitted on or before Friday June 5<sup>th</sup> 2015 at 02:00 PM at the office of Project Director, PMU, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi, Tel: +92-21-99251367 / Fax: +92-21-99251373. Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned in General Terms & Conditions. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

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

##### **Opening of Proposals**

The proposals submitted against the subject RFP will be opened by the Procurement Committee of PMU, Board of Revenue, Sindh on Friday June 5<sup>th</sup> 2015 at 02:30 PM in the Committee room of PMU, Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, adjacent Dr. Ziauddin Hospital, Clifton, Karachi, Tel: +92-21-99251367 / Fax: +92-21-992513763 in presence of all the bidders, or their representatives, who may choose to be present.



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

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

**Basis of Evaluation and Comparison of Bid**

The bidders meeting the following criteria will be eligible for consideration of financial bid against the tender.

S.No.	Criteria	Compliant	Non-Compliant
1	10 Year in IT Business (Attach certificate of incorporation)		
2	Authorization letter from OEM/Principal or its dealer for HP, CISCO, EMC, Kiddie, LG, Schnider, Emerson & Perkin (Please attach authorization letter for each brand separately)		
3	Average turnover of 300 million in IT related projects during last 3 years (attach audited financial statements)		
4	Completed at least 02 projects of Support & Maintenance of Similar IT equipment in public sector OR Completed at least 06 projects of similar nature in private sector. (attach successful completion certificate)		
5	Completed at least 02 projects of Support & Maintenance of Similar Hardware Equipment in public sector OR Completed at least 04 projects of similar nature in private sector. (attach successful completion certificate)		
6	Completed at least 02 projects of Support & Maintenance of Similar Surveillance & Monitoring System OR Completed at least 04 projects of similar nature in private sector. (attach successful completion certificate)		
7	Completed at least 02 projects of Support & Maintenance of Similar Fire Detection & Suppression System OR Completed at least 04 projects of similar nature in private sector. (attach successful completion certificate)		
8	Completed at least 02 projects of Support & Maintenance of Electricity Generator OR Completed at least 04 projects of similar nature in private sector. (attach successful completion certificate)		
9	ISO 9001/20000 or equivalent certification (attach valid certificate)		
10	Having following certified professional team/professional on company payroll for at least one (01) year for this project:		





	(a) One (01) Project Management Professional (b) Four (04) Degree holder in Computer Engineering (c) Two (02) Degree holder in Electrical Engineering (c) Two (02) Certified Fire Detection Suppression Engineer (d) Two (02) Certified Professional for HVAC (attach CVs. Certificates and company's payroll)		
11	Compliance Sheet of RFP Check list: (a) Compliance of Eligibility qualifications (b) Compliance of Technical Proposal Requirements (c) Compliance of Bid for Complete Package (d) Compliance of prescribed delivery schedule as per requirements supported by affidavit		
12	Required Bid Security Attached		
13	Document Fee Submitted		
	Compliant/Non-Compliant		

#### **Preliminary Evaluation Checklist**

The Bidder should fill out this Form by providing all the required information and Placing this Form on top of the Technical Proposal. Relevant portions of the Technical Proposal should be referenced in this form. Please note that all required information should be provided on this Form and no document should be attached.

#### **Information Required**

##### **a) General**

- 1 Name of Bidder or Group of companies going into bid.
- 2 No of Years in business in Pakistan
- 3 No of Offices locations in Pakistan
- 4 Annual Turnover (Million Rs.)
- 5 Value of projects in hand (details may be given)
- 6 Year of Incorporation
- 7 Status of the Bidder
  - Sole Proprietor
  - Partnership Firm
  - Private Limited Company
  - Public Limited Company
  - Entity registered / incorporated outside Pakistan (Give details)
  - Other (Please specify)
- 8 Names of Owner / Partners / Chief Executive / Directors
- 9 Details of Registered Head Office (Address, Phone, Facsimile, Email and Website information)

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

- 1 No of permanent staff employed: Technical /Managerial
- 2 Cumulative Experience (in years)
- 3 Total No. of Support professionals in Technical Domain
- 4 Total No. of Staff assigned for the proposed project.





**c) Support Capabilities**

- 1 Experience in Support area
- 2 No. of Staff employed: (Capable of providing Support)
- 3 Cumulative Experience (in years)
- 4 List of Customers of "Support" along with contact details.
- 5 Installation and Configuration will be the responsibility of the successful Bidder.
- 6 Bidder should have backup equipment to provide sufficient services.

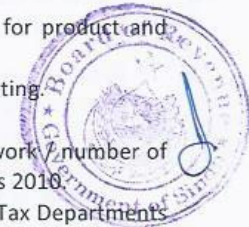
**d) Joint Ventures**

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

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

**Special Instructions**

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



**Contacting the Purchaser**

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

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

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

**Scope of Work**

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

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh, under the said approved Project invites tender through National Competitive Bidding.

Contractor shall also be responsible to provide support & maintenance services to BOR, Sindh .

Penalty would be imposed on vendor to makeup the loss if any caused in discharge of contractual liabilities; in case of finding carelessness in equipment handling and misuse of the provided equipment.

Vendor shall be responsible for support and maintenance for a period of one year.

Reforms Wing & Special Cell, Board of Revenue, Government of Sindh shall have right to terminate the contract if vendor fails in providing satisfactory services in given scheduled time. In addition to that, Performance Security amount will also be forfeited.

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



**BILL OF QUANTITY**  
**ALONG WITH DETAILED TECHNICAL SPECIFICATION**

**ITEM NO. 01 SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF DATA CENTER @ REVENUE HOUSE, KARACHI:**

Sr.#	Item	Description	Qty	Support Level	Maintenance Visit
Computing, Storage and Networking:					
1.	Server Chassis	Cisco UCS 5108 (UCS 5108 Blade Svr AC Chassis/0 PSU/8 fans/0 fabric extender, 6 x UCS B200 M3 Blade Server w/o CPU mem HDD mLOM/mezz (1D), 12 x 2.30 GHz E5-2630/95W 6C/15MB Cache/DDR3 1333MHz, 12 x 8GB DDR3-1333-MHz RDIMM/PC3-10600/2R/1.35v, 12 x 300GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted, 6 x Cisco UCS VIC 1240 modular LOM for M3 blade servers, 12 x CPU Heat Sink for UCS B200 M3 and B420 M3, 2 x UCS 2204XP I/O Module (4 External 16 Internal 10Gb Ports), 4 x 2500W Platinum AC Hot Plug Power Supply for UCS 5108 Chassis, 4 x Power Cord 250Vac 16A INTL, UCS Blade Server Chassis FW Package 2.1, Single phase AC power module for UCS 5108, Access. kit for 5108 Blade Chassis incl Railkit KVM dongle, 8 x Fan module for UCS 5108, UCS 6248UP 1RU Fabric Int/No PSU/32 UP/ 12p LIC, 10 x 1000BASE-SX SFP (DOM), 4 x 10GBASE-CU SFP+ Cable 5 Meter, UCS 6248UP Chassis Accessory Kit, UCS 6200 Series Expansion Module Blank, 2 x UCS 6248UP Fan Module, UCS 6200 16-port Expansion module/16 UP/ 8p LIC, 2 x UCS 6248UP Power Supply/100-240VAC, 2 x Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK, 10 x 4 Gbps Fibre Channel-SW SFP LC, UCS Manager v2.1.). Contractor should support on Operating System (i.e. Microsoft Windows Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.	2	Next Working Day	Quarterly
2.	Rack Server	Cisco UCS C22 M3 Server (UCS C22 M3 LFF w/ rail kit w/o PSU CPU mem HDD PCIe, 1.80 GHz E5-2403/80W 4C/10MB Cache/DDR3 1066MHz, 4GB DDR3-1600-MHz RDIMM/PC3-12800/single rank/1.35v, 2 x 2TB SAS 7.2K RPM 3.5 inch HDD/hot plug/drive sled mounted, Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK 450W power supply for C-series rack servers Embedded SW RAID 0/1/10/5 4 ports SAS/SATA 2 x 3.5-inch HDD Blanking Panel, SAS/SATA cable (embedded RAID) C22 LFF (3.5), Heat Sink for UCS C22/C24 M3 Rack Server, Full height PCIe filler for C-Series, Half height PCIe filler for UCS and Rail Kit for C220 C22 C24 rack servers. Contractor should support	2	Next Working Day	Quarterly





		on Operating System (i.e. Microsoft Windows Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.			
3.	SAN	EMC 5500 Storage (PSI VNX 5500, VNX5500 DPE; 15X3.5 DRV SLOTS-FLD INST, 1 x VNX 15X3.5 IN 6GB SAS EXP DAE-FLD INST, 9 x 2TB 7200RPM 6GB SAS 3.5 CARRIER, 1 x 3.5 600G 15K VAULT PCK 6GSDAE/DPE, 1 x 2 C13 PWRCORDS W/ BSI 1363 250V 10A and 1 x VNX 4 PT 1GBASE-T ISCSI IO MOD PR. Contractor should support on new deployment / implementation, installation, configuration, licensing and their maintenance etc.	1	Next Working Day	Quarterly
4.	IP MPLS Edge Router	Cisco 3900 Series Router (Cisco 3945E Security Bundle w/SEC license PAK, Cisco 3925-3945 SPE IOS UNIVERSAL, 2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1, U.S. Export Restriction Compliance license for 3900E series, Cisco 3925/3945 Fan Assembly (Bezel included), Cisco 3925/3945 AC Power Supply, Cisco 3925/3945 AC Power Supply (Secondary PS), 2 x AC Power Cord (UK) C13 BS 1363 2.5m, Console Cable 6 ft with USB Type A and mini-B, Cisco Services Performance Engine 250 for Cisco 3945E ISR, IP Base License for Cisco 3925/3945, Cisco Config Pro Express on Router Flash, 1GB DRAM (512MB+512MB) for Cisco 3925/3945 ISR (Default), 256MB Compact Flash for Cisco 1900 2900 3900 ISR and Security License for Cisco 3900 Series.	2	Next Working Day	Quarterly
5.	Firewall	Cisco ASA 5585-X (ASA 5585-X Chas w/ SSP20,IPS SSP20,16GE,4 SFP+,2 AC,3DES/AES, 2 x ASA 5585-X Hard Drive Blank Slot Cover, ASA 5585-X IPS Security Services Processor-20, ASA 5585-X Security Services Processor-2, ASA 5500 Strong Encryption License (3DES/AES), 2 x ASA 5585-X Hard Drive Blank Slot Cover, ASA 5500-X IPS Software 7.1 for IPS SSP, ASA 5500 AnyConnect Client + Cisco Security Desktop Software, ASA 5585-X AC Power Supply, ASA 5585-X Security Plus License (Enables 10G SFP+ Ports), 2 x BS-1363 to IEC-C19 14ft UK, ASA 5585-X AC Power Supply, Software release ASA 8.4, 2 x 10GBASE-SR SFP Module and Cisco VPN Client Software (Windows Solaris Linux Mac).	2	Next Working Day	Quarterly
6.	Core Ethernet Switch	Cisco Catalyst 6509-E Switch (Catalyst Chassis+Fan Tray + Sup2T; IP Services ONLY incl VSS, Catalyst 6509-E Chassis Fan Tray, Connector Kit, Power Supply Blank Cover, Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4, Internal 1G Compact Flash, Cat 6k 80G Sys Daughter Board Sup2T PFC4, Catalyst 6500 Supervisor Engine 2T	2	Next Working Day	Quarterly



		Baseboard, Catalyst 6500 2GB memory for Sup2T and Sup2TXL, Cisco CAT6000-VS-S2T IOS IP SERV FULL ENCRYPT, C6k 48-port 10/100/1000 GE Mod: fabric enabled RJ-45 DFC4, Catalyst 6500 Dist Fwd Card DFC4, 48 PORT 1G COPPER BASEBOARD, 16 Port 10G with DFC4, Catalyst 6500 Dist Fwd Card DFC4, 6816 10G baseboard, 2 x Catalyst 6500 3000W AC power supply, 2 x Power Cord 250Vac 16A INTL and 10 x 10GBASE-SR X2 Module.)			
7.	L2 PoE Switch	Cisco Catalyst 3000 Series Switch (Catalyst 3560X 48 Port PoE LAN Base, 2 x AC Power Cord for Catalyst 3K-X (United Kingdom), Catalyst 3K-X 715W AC Secondary Power Supply, Console Cable 6 ft with USB Type A and mini-B, Catalyst 3K-X 1G Network Module option PID, CAT 3560X IOS UNIVERSAL WITH WEB BASED DEV MGR and Catalyst 3K-X 715W AC Power Supply.)	2	Next Working Day	Quarterly
8.	Structure Cabling and Laying of Data Center	3M (2 x 48 port patch panel with cable organizer & 24 I/O's each, 24 x CAT 6 I/O with single face plate with back box, 50 x Patch cord 2 meter, Fiber patch panel with pigtails, 75 Feet x Core 9/125/250u Singlemode outdoor armoured cable, 20 x 2 Core Single mode Type OS2 Ruggedized Patch Cords ST to ST 1m and 20 x 2 Core Multi mode Type OM2 Ruggedized Patch Cords ST to ST 1m.)	1	Next Working Day	Half Yearly
9.	PC	Dell OptiPlex (Dell OptiPlex 3020MT, Intel 4 <sup>th</sup> Gen, Processor 4570 – 3.2 Ghz, 4 GB DDR3 RAM, 500 GB Hard Drive, Dell LED E2014H 20" LED, Keyboard, Mouse and Windows 8.1 Professional.). Contractor should support on new installation, configuration, licensing and their maintenance etc.	5	Next Working Day	Quarterly
Rack, UPS and Cooling:					
10.	IP Based KVM	Emerson Networks (AUTOVIEW 3008 DIGITAL KVM APPLIANCE, ADAPTER KVM SWITCH USB INTERFACE and LCD 17IN+TRAY W/USA KEYBRD US.	1	Next Working Day	Quarterly
11.	42U Free Standing Equipment Cabinet	Emerson Networks (F SERIES II RACK 42U 600X1090, KIT BOLT DOWN (SET OF 2), F SERIES II BAYING KIT (SET OF 4), PANEL CABLE MGMT 1U PASS THROUGH BLACK, PANEL CABLE MGMT 1U 2.256SCREW ON HOOP, RAIL 42U VERTICAL PDU CABLE MANAGEMENT, SHELF LIGHT EQUIPMENT 330 1U BLACK, SHELF 19" VENTED FIXED 650 DEEP BLACK, PANEL BLANKING 1U STEEL BLACK, PANEL BLANK 2U STEEL BLACK SET OF 10, 2 x LIEBERT MPH 400230V3P32A21+6OC13+C19C20 and 2 x LIEBERT RPC BDM MONITORING MODULE.	14	Next Working Day	Quarterly
12.	60 kW Modular UPS in N+1 Parallel Redundant Configuration	Emerson Networks Liebert (LIEBERT APM 30-120KVA (D) MODULAR RACK, 3 x LIEBERT APM 30KVA/30KW POWER MODULE, SPM FUNCTION FOR LIEBERT APM, 2 x MICRO-BREAKER DIST	2	Next Working Day	Quarterly





		SUBASSY - INTEL, SIC CARD (SNMP), 2 x BATTERY TEMPERATURE SENSOR, 2 x CABINET BATTERY 4LAYER PM32-100C4*2-50-A, 64 x BATTERY VRLA 12.0V 90AH VISION and 50 x LINK BATTERY 35X100.)			
13.	Hot Aisle Containment Solution	Emerson Networks (COLD AISLE CONTAINMENT 5400LX1200WX2200H, 2 x MVCD 750X350 C/W ACTUATOR GI BASE PLATE and CONTROL PANEL MVCD C/W FIRE RELAY.)	1	Next Working Day	Quarterly
14.	Air Cooled 30 kW Inrow Precision Air Conditioning Unit	Emerson Networks Liebert CRV (LIEBERT CRV 35KW DX AIR COOLED, KIT CONDENSATE WATER PUMP, KIT REHEAT & HUMIDITY LOCKOUT, LIEBERT INTELLISLOT WEBCARD-L XDP/CRV, KIT SENSOR WATER LEAKAGE DETECTION and CONDENSER PEX LSF76 SINGLE CIRCUIT.	3	Next Working Day	Quarterly
15.	12 kW Air Flow Precision Air Conditioning Units	Emerson Networks Liebert (LIEBERT DM 3.5T 380/60/3, DATAMATE 3000 CONDENSING UNIT DMC12WT1, RESISTOR 2KOHM +/-1% 0.25W METAL FILM, CONVERTOR INTERFACE RS232/RS485 ACTIVE, CABLE SERIAL COMMUNICATION UHS1S21FSL, CARD SNMP ADAPTER EXT. UFSN31Z1 DM and CABLE UPS COOLING LTS.	2	Next Working Day	Quarterly
16.	Ceiling Cassette Type Air Conditioner	Aescon (Model: AFS25C 24000 BTU/H)	9	Next Working Day	Quarterly
Fire Detection and Suppression System:					
17.	Intelligent Addressable Fire Alarm System	Kidde UTC Fire & Security Co. U.K (Model: 23911-K069)	1	Next Working Day	Quarterly
18.	Optical Smoke Detector	Kidde UTC Fire & Security Co. U.K	40	Next Working Day	Quarterly
19.	Addressable Break Glass	Kidde UTC Fire & Security Co. U.K	3	Next Working Day	Quarterly
20.	Addressable Indoor Electronic Sounder	Kidde UTC Fire & Security Co. U.K	3	Next Working Day	Quarterly
21.	Wiring for whole Fire Alarm System	Kidde UTC Fire & Security Co. U.K	200 Meter	Next Working Day	Quarterly
22.	Fire Extinguisher Cylinder	6 Kg CO2 Fire Extinguisher Cylinder including all fixing accessories.	6	Next Working Day	Quarterly
23.	Fire Extinguisher Cylinder	6 Kg Halotron Fire Extinguisher Cylinder including all fixing accessories.	6	Next Working Day	Quarterly
24.	Fire Extinguisher Trolley	25 Kg DCP AB(E) Fire Extinguisher Trolley including all fixing accessories.	1	Next Working Day	Quarterly
25.	Fire Protection Fluid for a Room	Novac 1230 Fire Protection Fluid for a room size 33' x 23' x 14' Height at manufacturer	1	Next Working Day	Quarterly





		recommended concentration for a Data Centre equally distributed original charged with agent and pressurized with Nitrogen to 360psig at 70° F.		Day	
26.	Fire Protection Fluid for a Room	Novac 1230 Fire Protection Fluid for a room size 24' x 20' x 12' Height at manufacturer recommended concentration for a Data Centre equally distributed original charged with agent and pressurized with Nitrogen to 360psig at 70° F.	1	Next Working Day	Quarterly
<b>Electrical and Diesel Generating Set</b>					
27.	Water Cooled Diesel Generating Set	Cummins 110 kVA with all other allied peripheral.	1	Next Working Day	Monthly
28.	Water Cooled Diesel Generating Set	Perkins 50 kVA (Model: P50/E) with all other allied peripheral.	1	Next Working Day	Monthly
29.	Water Cooled Diesel Generating Set	Perkins 150 kVA (Model: PR150L) with all other allied peripheral.	2	Next Working Day	Monthly
30.	Main Storage Tank	Main Storage Tank to store diesel fuel for 150 kVA Diesel Generator Sets for a continuous period of 48 hours together with piping and Pumps for transferring fuel from Main Storage Tank to Generator Fuel Tanks.	2	Next Working Day	Quarterly
31.	Earthing	Earthing to provide less than 2Ω Resistance to include Earth Terminal Point for Data Center Appliance.	6 Solution	Next Working Day	Quarterly
32.	Lightning Arrestor	Lightning Arrestor for Data Center Protection	1 Solution	Next Working Day	Quarterly
33.	Electrical Component	Schneider Electric (2 x KESC Incoming DB, 2 x DB - LP - I, 2 x DB - AC - I, 1 x Main DB - I, 1 x Main DB - II, 1 x Automatic Transfer Switch - I, 1 x Automatic Transfer Switch - II and 2 x Power Factor Improvement (PFI) Plant.) Contractor should provide whole solution support and maintenance.	1 Solution	Next Working Day	Quarterly
34.	2' x 2' LED Light Panel	Made in China (Model: BK-PF-040WA930-B32)	30	Next Working Day	Quarterly
<b>Access Control &amp; Security:</b>					
35.	Video Surveillance System	LG (16 Cameras Installed at Data Center in which 10 IR Vandal Dome Camera (Model No: LCV100R), 6 IR Bullet Camera (Model No: LCU3100R and DVR)	1 Solution	Next Working Day	Quarterly
36.	Access Control System	FALCO (1 x PoE based Door Access Controller, 5 x Illuminated Peizo Exit Switch, 6 x Grade 1 Heavy Duty Door Strike, 1 x Surface Mount Double Door Magnetic Lock and 20 x PVC/Composite Contactless Proximity Cards)	1 Solution	Next Working Day	Quarterly
<b>NOC Appliance and Fixture:</b>					
37.	Video Wall System	Samsung (6 x Samsung UD Series 46" LED Large Format Display Monitors, 6 x Wall Mount for LFD	1 Solution	Next Working	Quarterly



		Screens, 1 x MagicInfo Video Wall 2 – Author Software License, 6 x MagicInfo Video 2 – Console and 6 x Dual Core 32G, Win 7 Slide in PC Module etc.)		Day	
38.	Fixture at NOC Room	3 x Desk, 4 x Filing Cabinet, 18 x Hydraulic Chair and 4 x Visit Chair.	1 Solution	Next Working Day	Quarterly
Civil and Allied Work:					
39.	Precision Milled Anti-Static Vinyl Tile Flooring	Precision Milled Anti-Static Vinyl Tile Flooring made of High Density Resin with Conductive Carbon matrix.	1,640 Sq. Feet	N/A	Half Yearly
40.	Anti-Static Carpet Tile	24"x 24" Porcelain Tile flooring with cement sand base mortar in 2" average thickness and with 4" high skirting.	850 Sq. Feet	N/A	Half Yearly
41.	Anti-Static Static Dissipative Epoxy Flooring	Anti-Static Static Dissipative Epoxy Flooring using Self-Levelling Epoxy Flooring System 2mm – 3mm thick.	760 Sq. Feet	N/A	Half Yearly
42.	Fire resistant Data Centre steel doors	2-Hour Fire resistant Data Centre steel doors to include vision panels and shall have options for latched or unlatched operations. The doors shall be powder coated and shall have suitable hinges made of Stainless Steel frame and all installation and locking accessories.	1	Next Working Day	Half Yearly

**ITEM NO. 02 SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF DISASTER RECOVERY CENTER @ DIRECTOR SURVEY AND SETTLEMENT OFFICE, HYDERABAD:**

Sr.#	Item	Description	Qty	Support Level	Maintenance Visit
Computing, Storage and Networking:					
1.	Server Chassis	Cisco UCS 5108 (UCS 5108 Blade Svr AC Chassis/0 PSU/8 fans/0 fabric extender, 6 x UCS B200 M3 Blade Server w/o CPU mem HDD mLOM/mezz (1D), 12 x 2.30 GHz E5-2630/95W 6C/15MB Cache/DDR3 1333MHz, 12 x 8GB DDR3-1333-MHz RDIMM/PC3-10600/2R/1.35v, 12 x 300GB 6Gb SAS 15K RPM SFF HDD/hot plug/drive sled mounted, 6 x Cisco UCS VIC 1240 modular LOM for M3 blade servers, 12 x CPU Heat Sink for UCS B200 M3 and B420 M3, 2 x UCS 2204XP I/O Module (4 External 16 Internal 10Gb Ports), 4 x 2500W Platinum AC Hot Plug Power Supply for UCS 5108 Chassis, 4 x Power Cord 250Vac 16A INTL, UCS Blade Server Chassis FW Package 2.1, Single phase AC power module for UCS 5108, Access. kit for 5108 Blade Chassis incl Railkit KVM dongle, 8 x Fan module for UCS 5108, UCS 6248UP 1RU Fabric Int/No PSU/32 UP/ 12p LIC, 12 x 1000BASE-SX SFP (DOM), 4 x 10GBASE-CU SFP+ Cable 5 Meter, UCS 6248UP Chassis Accessory Kit, UCS 6200 Series Expansion Module Blank, 2 x UCS 6248UP Fan Module, UCS 6200 16-port Expansion module/16 UP/ 8p LIC, 2 x UCS 6248UP Power Supply/100-240VAC, 2 x Power Cord 250VAC 10A	1	Next Working Day	Quarterly





		BS1363 Plug (13 A fuse) UK, 12 x 4 Gbps Fibre Channel-SW SFP LC, UCS Manager v2.1.). Contractor should support on Operating System (i.e. Microsoft Windows Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.			
2.	Rack Server	Cisco UCS C22 M3 Server (UCS C22 M3 LFF w/ rail kit w/o PSU CPU mem HDD PCIe, 1.80 GHz E5-2403/80W 4C/10MB Cache/DDR3 1066MHz, 4GB DDR3-1600-MHz RDIMM/PC3-12800/single rank/1.35v, 2 x 2TB SAS 7.2K RPM 3.5 inch HDD/hot plug/drive sled mounted, Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK 450W power supply for C-series rack servers Embedded SW RAID 0/1/10/5 4 ports SAS/SATA 2 x 3.5-inch HDD Blanking Panel, SAS/SATA cable (embedded RAID) C22 LFF (3.5), Heat Sink for UCS C22/C24 M3 Rack Server, Full height PCIe filler for C-Series, Half height PCIe filler for UCS and Rail Kit for C220 C22 C24 rack servers. Contractor should support on Operating System (i.e. Microsoft Windows Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.	2	Next Working Day	Quarterly
3.	SAN	EMC 5500 Storage (PSI VNX 5500, VNX5500 DPE; 15X3.5 DRV SLOTS-FLD INST, 1 x VNX 15X3.5 IN 6GB SAS EXP DAE-FLD INST, 9 x 2TB 7200RPM 6GB SAS 3.5 CARRIER, 1 x 2 C13 PWRCORDS W/ BSI 1363 250V 10A, 1 x 3.5 IN 2T SAS DISK DRIVE VAULT PACK and 1 x VNX 2 PT 10GBASE-T ISCSI IO MOD PR. Contractor should support on new deployment / implementation, installation, configuration, licensing and their maintenance etc.	1	Next Working Day	Quarterly
4.	IP MPLS Edge Router	Cisco 3900 Series Router (Cisco 3945E Security Bundle w/SEC license PAK, Cisco 3925-3945 SPE IOS UNIVERSAL, 2-Port 3rd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1, U.S. Export Restriction Compliance license for 3900E series, Cisco 3925/3945 Fan Assembly (Bezel included), Cisco 3925/3945 AC Power Supply, Cisco 3925/3945 AC Power Supply (Secondary PS), 2 x AC Power Cord (UK) C13 BS 1363 2.5m, Console Cable 6 ft with USB Type A and mini-B, Cisco Services Performance Engine 250 for Cisco 3945E ISR, IP Base License for Cisco 3925/3945, Cisco Config Pro Express on Router Flash, 1GB DRAM (512MB+512MB) for Cisco 3925/3945 ISR (Default), 256MB Compact Flash for Cisco 1900 2900 3900 ISR and Security License for Cisco 3900 Series.	1	Next Working Day	Quarterly
5.	Firewall	Cisco ASA 5585-X (ASA 5585-X Chas w/ SSP20,IPS SSP20,16GE,4 SFP+,2 AC,3DES/AES, 2 x ASA 5585-	1	Next Working	Quarterly





		X Hard Drive Blank Slot Cover, ASA 5585-X IPS Security Services Processor-20, ASA 5585-X Security Services Processor-2, ASA 5500 Strong Encryption License (3DES/AES), 2 x ASA 5585-X Hard Drive Blank Slot Cover, ASA 5500-X IPS Software 7.1 for IPS SSP, ASA 5500 AnyConnect Client + Cisco Security Desktop Software, ASA 5585-X AC Power Supply; ASA 5585-X Security Plus License (Enables 10G SFP+ Ports), 2 x BS-1363 to IEC-C19 14ft UK, ASA 5585-X AC Power Supply, Software release ASA 8.4, 2 x 10GBASE-SR SFP Module and Cisco VPN Client Software (Windows Solaris Linux Mac).		Day	
6.	Core Ethernet Switch	Cisco Catalyst 6509-E Switch (Catalyst Chassis+Fan Tray + Sup2T; IP Services ONLY incl VSS, Catalyst 6509-E Chassis Fan Tray, Connector Kit, Power Supply Blank Cover, Cat 6500 Sup 2T with 2 x 10GbE and 3 x 1GbE with MSFC5 PFC4, Internal 1G Compact Flash, Cat 6k 80G Sys Daughter Board Sup2T PFC4, Catalyst 6500 Supervisor Engine 2T Baseboard, Catalyst 6500 2GB memory for Sup2T and Sup2TXL, Cisco CAT6000-VS-S2T IOS IP SERV FULL ENCRYPT, C6k 48-port 10/100/1000 GE Mod: fabric enabled RJ-45 DFC4, Catalyst 6500 Dist Fwd Card DFC4, 48 PORT 1G COPPER BASEBOARD, 16 Port 10G with DFC4, Catalyst 6500 Dist Fwd Card DFC4, 6816 10G baseboard, 2 x Catalyst 6500 3000W AC power supply, 2 x Power Cord 250Vac 16A INTL and 4 x 10GBASE-SR X2 Module.)	1	Next Working Day	Quarterly
7.	L2 PoE Switch	Cisco Catalyst 3000 Series Switch (Catalyst 3560X 48 Port PoE LAN Base, 2 x AC Power Cord for Catalyst 3K-X (United Kingdom), Catalyst 3K-X 715W AC Secondary Power Supply, Console Cable 6 ft with USB Type A and mini-B, Catalyst 3K-X 1G Network Module option PID, CAT 3560X IOS UNIVERSAL WITH WEB BASED DEV MGR and Catalyst 3K-X 715W AC Power Supply.)	1	Next Working Day	Quarterly
8.	Structure Cabling and Laying of Disaster Recovery Center	3M (2 x 48 port patch panel with cable organizer & 24 I/O's each, 24 x CAT 6 I/O with single face plate with back box, 50 x Patch cord 2 meter, Fiber patch panel with pigtails, 75 Feet x Core 9/125/250u Singlemode outdoor armoured cable, 20 x 2 Core Single mode Type OS2 Ruggedized Patch Cords ST to ST 1m and 20 x 2 Core Multi mode Type OM2 Ruggedized Patch Cords ST to ST 1m.)	1	Next Working *Day	Half Yearly
9.	PC	Dell OptiPlex (Dell OptiPlex 3020MT, Intel 4 <sup>th</sup> Gen, Processor 4570 – 3.2 Ghz, 4 GB DDR3 RAM, 500 GB Hard Drive, Dell LED E2014H 20" LED, Keyboard, Mouse and Windows 8.1 Professional.) Contractor should support on new installation, configuration, licensing and their maintenance	2	Next Working Day	Quarterly



		etc.			
Rack, UPS and Cooling:					
10.	IP Based KVM	Emerson Networks (AUTOVIEW 3008 DIGITAL KVM APPLIANCE, ADAPTER KVM SWITCH USB INTERFACE and LCD 17IN+TRAY W/USA KEYBRD US.	1	Next Working Day	Quarterly
11.	42U Free Standing Equipment Cabinet	Emerson Networks (F SERIES II RACK 42U 600X1090, KIT BOLT DOWN (SET OF 2), F SERIES II BAYING KIT (SET OF 4), PANEL CABLE MGMT 1U PASS THROUGH BLACK, PANEL CABLE MGMT 1U 2.25ØSCREW ON HOOP, RAIL 42U VERTICAL PDU CABLE MANAGEMENT, SHELF LIGHT EQUIPMENT 330 1U BLACK, 8 x SHELF 19" VENTED FIXED 650 DEEP BLACK, PANEL BLANKING 1U STEEL BLACK, 2 x PANEL BLANK 2U STEEL BLACK SET OF 10, 2 x LIEBERT MPH 400230V3P32A21+6OC13+C19C20 and 2 x LIEBERT RPC BDM MONITORING MODULE.	7	Next Working Day	Quarterly
12.	30 kW Modular UPS in N+1 Parallel Redundant Configuration	Emerson Networks Liebert (LIEBERT APM 30-120KVA (D) MODULAR RACK, 2 x LIEBERT APM 30KVA/30KW POWER MODULE, SPM FUNCTION FOR LIEBERT APM, 2 x MICRO-BREAKER DIST SUBASSY - INTEL, SIC CARD (SNMP), 2 x BATTERY TEMPERATURE SENSOR, 2 x CABINET BATTERY 4LAYER PM32-100C4*2-50-A, 32 x BATTERY VRLA 12.0V 90AH VISION and 50 x LINK BATTERY 35X100.)	1	Next Working Day	Quarterly
13.	Hot Aisle Containment Solution	Emerson Networks (COLD AISLE CONTAINMENT 3000LX1200WX2200H, 2 x MVCD 750X350 C/W ACTUATOR GI BASE PLATE and CONTROL PANEL MVCD C/W FIRE RELAY.)	1	Next Working Day	Quarterly
14.	Air Cooled 30 kW Inrow Precision Air Conditioning Units	Emerson Networks Liebert CRV (LIEBERT CRV 35KW DX AIR COOLED, KIT CONDENSATE WATER PUMP, KIT REHEAT & HUMIDITY LOCKOUT, LIEBERT INTELLISLOT WEBCARD-L XDP/CRV, KIT SENSOR WATER LEAKAGE DETECTION and CONDENSER PEX LSF76 SINGLE CIRCUIT.	2	Next Working Day	Quarterly
15.	Ceiling Cassette Type Air Conditioner	Aescon (Model: AFS25C 24000 BTU/H)	4	Next Working Day	Quarterly
Fire Detection and Suppression System:					
16.	Intelligent Addressable Fire Alarm System	Kidde UTC Fire & Security Co. U.K (Model: 23911-K069)	1	Next Working Day	Quarterly
17.	Optical Smoke Detector	Kidde UTC Fire & Security Co. U.K	40	Next Working Day	Quarterly
18.	Addressable Break Glass	Kidde UTC Fire & Security Co. U.K	2	Next Working Day	Quarterly
19.	Addressable Indoor Electronic Sounder	Kidde UTC Fire & Security Co. U.K	2	Next Working Day	Quarterly





20.	Wiring for whole Fire Alarm System	Kidde UTC Fire & Security Co. U.K	100 Meter	Next Working Day	Quarterly
21.	Fire Extinguisher Cylinder	6 Kg CO2 Fire Extinguisher Cylinder including all fixing accessories.	6	Next Working Day	Quarterly
22.	Fire Extinguisher Cylinder	6 Kg Halotron Fire Extinguisher Cylinder including all fixing accessories.	6	Next Working Day	Quarterly
23.	Fire Extinguisher Trolley	25 Kg DCP AB(E) Fire Extinguisher Trolley including all fixing accessories.	1	Next Working Day	Quarterly
24.	Fire Protection Fluid for a Room	Novec 1230 Fire Protection Fluid suitable for an area of 40' x 20' x 13' high calculated based on manufacturer recommended concentration levels for data centre facilities equally distributed original charged with agent and pressurized with Nitrogen to 360psig at 70° F.	1	Next Working Day	Quarterly
Electrical and Diesel Generating Set					
25.	Water Cooled Diesel Generating Set	Perkins 100 kVA (Model: PR100L) with all other allied peripheral.	1	Next Working Day	Monthly
26.	Main Storage Tank	Main Storage Tank to store diesel fuel for 100 kVA Diesel Generator Sets for a continuous period of 48 hours together with piping and Pumps for transferring fuel from Main Storage Tank to Generator Fuel Tank.	1	Next Working Day	Quarterly
27.	Earthing	Earthing to provide less than 2Ω Resistance to include Earth Terminal Point for Disaster Recovery Center Appliance.	6 Solution	Next Working Day	Quarterly
28.	Electrical Component	Schneider Electric (1 x HESCO Incoming DB, 1 x DB - LP - I, 1 x DB - AC - I, 1 x Main DB - I and 1 x Automatic Transfer Switch - I) Contractor should provide whole solution support and maintenance.	1 Solution	Next Working Day	Quarterly
29.	2' x 2' LED Light Panel	Made in China (Model: BK-PF-040WA930-B32)	18	Next Working Day	Quarterly
Access Control & Security:					
30.	Video Surveillance System	LG (16 Cameras Installed at Data Center in which 10 IR Vandal Dome Camera (Model No: LCV100R), 6 IR Bullet Camera (Model No: LCU3100R and DVR)	1 Solution	Next Working Day	Quarterly
31.	Access Control System	FALCO (1 x PoE based Door Access Controller, 5 x Illuminated Peizo Exit Switch, 6 x Grade 1 Heavy Duty Door Strike, 1 x Surface Mount Double Door Magnetic Lock and 20 x PVC/Composite Contactless Proximity Cards)	1 Solution	Next Working Day	Quarterly
NOC Appliance and Fixture:					
32.	Video Wall System	Samsung (2 x Samsung UD Series 46" LED Large Format Display Monitors, 2 x Wall Mount for LFD Screens.)	1 Solution	Next Working Day	Quarterly
33.	Fixture at NOC Room	1 x Officer Desk, 2 x Filing Cabinet, 4 x Hydraulic	1	Next	Quarterly



		Chair and 4 x Visit Chair.	Solution	Working Day	
<b>Civil and Allied Work:</b>					
34.	Precision Milled Anti-Static Vinyl Tile Flooring	Precision Milled Anti-Static Vinyl Tile Flooring made of High Density Resin with Conductive Carbon matrix.	800 Sq. Feet	N/A	Half Yearly
35.	Anti-Static Carpet Tile	24"x 24" Porcelain Tile flooring with cement sand base mortar in 2" average thickness and with 4" high skirting.	450 Sq. Feet	N/A	Half Yearly
36.	Fire resistant Data Centre steel doors	2-Hour Fire resistant Data Centre steel doors to include vision panels and shall have options for latched or unlatched operations. The doors shall be powder coated and shall have suitable hinges made of Stainless Steel frame and all installation and locking accessories.	1	Next Working Day	Half Yearly

**ITEM NO. 03 SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF FACILITATION SERVICE CENTER @ 03 DISTRICTS (HYDERABAD, TANDO MOHAMMAD KHAN & JAMSHORO) IN SINDH PROVINCE:**

Sr.#	Item	Description	Qty	Support Level	Maintenance Visit
<b>Computing, Storage and Networking:</b>					
1.	Server	HP DL380 Server. Contractor should support on Operating System (i.e. Microsoft Windows Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.	6	Next Working Day	Quarterly
2.	Router	Cisco Router 3845.	3	Next Working Day	Quarterly
3.	Firewall	Cisco Firewall ASA 5515.	3	Next Working Day	Quarterly
4.	PC	Hp Pro 3330 MT PC with Hp LV1911 Monitor, Keyboard, Mouse and MS Windows 7 Professional. Contractor should support on new installation, configuration, licensing and their maintenance etc.	15	Next Working Day	Quarterly
5.	Printer	HP Color LaserJet CP4525	6	Next Working Day	Quarterly
6.	Thumb Scanner	Digital Persona URU 4500	9	Next Working Day	Quarterly
7.	Camera	Logitech HD-1080P Webcam with Tripod Stand.	9	Next Working Day	Quarterly
8.	Document Scanner	HP ScanJet G2410	3	Next Working Day	Quarterly
9.	Token Machine	Dispenser Queue Management System for Service Center	3	Next Working Day	Quarterly



				Day	
10.	Networking Switch	Cisco Switch 3750	3	Next Working Day	Quarterly
11.	Fax Machine	Panasonic KX-FL422	3	Next Working Day	Quarterly
12.	LCD	Intel Pentium G2020 2.9 Ghz with VIPER LCD 24" Touch Screen. Contractor should support on new installation, configuration, licensing and their maintenance etc.	3	Next Working Day	Quarterly
13.	LED TV	LG 42" TV	3	Next Working Day	Quarterly
14.	Cameras with IP DVR	4 x Cameras and 1 x Dedicated DVR for recording.	3 Solution	Next Working Day	Quarterly
15.	Structure Cabling and Laying of Facilitation Service Center	Structure Cabling of Data having 24 I/O's each, 24 x CAT 6 I/O with single face plate with back box, 20 x Patch cord 2 meter and 10 x Patch cord 1 meter)	3 Solution	Next Working Day	Half Yearly
Rack, UPS and Cooling:					
16.	Standing Equipment Cabinet	42U Rack with all accessories such as PDU, KVM, LED, Mouse and Keyboard.	3	Next Working Day	Quarterly
17.	UPS	APC RT6000	9	Next Working Day	Quarterly
18.	Air Conditioner	Air Conditioner 2 Ton	21	Next Working Day	Quarterly
Electrical and Diesel Generating Set					
19.	Water Cooled Diesel Generating Set	Perkins Model: 20 kVA with all other allied peripheral.	3	Next Working Day	Monthly

**ITEM NO. 04 SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF FACILITATION SERVICE CENTER @ 24 DISTRICTS IN SINDH PROVINCE:**

Sr.#	Item	Description	Qty	Support Level	Maintenance Visit
Computing, Storage and Networking:					
1.	Rack Server	Cisco UCS C22 M3 Server (UCS C22 M3 LFF w/ rail kit w/o PSU CPU mem HDD PCIe, 1.80 GHz E5-2403/80W 4C/10MB Cache/DDR3 1066MHz, 4GB DDR3-1600-MHz RDIMM/PC3-12800/single rank/1.35v, 2 x 2TB SAS 7.2K RPM 3.5 inch HDD/hot plug/drive sled mounted, Power Cord 250VAC 10A BS1363 Plug (13 A fuse) UK 450W power supply for C-series rack servers Embedded SW RAID 0/1/10/5 4 ports SAS/SATA 2 x 3.5-inch HDD Blanking Panel, SAS/SATA cable (embedded RAID) C22 LFF (3.5), Heat Sink for UCS C22/C24 M3 Rack Server, Full height PCIe filler for C-Series, Half height PCIe filler for UCS and Rail Kit for C220 C22 C24 rack servers. Contractor should support on Operating System (i.e. Microsoft Windows	54	Next Working Day	Quarterly



		Server) new deployment / implementation, installation, configuration, licensing and their maintenance etc.			
2.	Edge Router	Cisco 2951 Security Bundle w/SEC license PAK, Cisco 2951 IOS UNIVERSAL, Eight port 10/100/1000 Ethernet switch interface card, Eight port 10/100/1000 Ethernet switch interface card w/ PoE, Cisco 2921/2951 AC Power Supply with Power Over Ethernet, AC Power Cord (UK) C13 BS 1363 2.5m, IP Base License for Cisco 2901-2951, Cisco Config Pro Express on Router Flash, 512MB DRAM (1 512MB DIMM) for Cisco 2951 ISR (Default), 256MB Compact Flash for Cisco 1900 2900 3900 ISR and Security License for Cisco 2901-2951.	30	Next Working Day	Quarterly
Electrical and Diesel Generating Set					
3.	Water Cooled Diesel Generating Set	Perkins Model: 20 kVA with all other allied peripheral.	24	Next Working Day	Monthly

**ITEM NO. 05 SUPPLY AND INSTALLATION OF FUEL LEVEL MONITORING SYSTEM FOR DIESEL GENERATING SET ON DATA CENTER, DISASTER RECOVERY CENTER AND FACILITATION SERVICE CENTER ITEMS:**

Fuel Level Monitoring System:				
Sr.#	Item	Description	Qty	Location
1.	Fuel Level Monitoring System for Water Cooled Diesel Generating Set	Supply and Installation of GSM Based Fuel Level Monitoring System which includes 3 Tier Dash Board, Real Time Monitoring, Auto Generated Alerts, Error Reporting, Generator On/Off Alerts & Website Monitoring including all allied items. Contractor shall pro provide One Year GSM charges and also provide One Year Support and Maintenance of Quoted System.	1 Job	33 Water Cooled Diesel Generating Set in which 27 (District of Sindh) x Perkins 20 kVA, 1 (Karachi) x Perkins 50 kVA, 2 (Hyderabad) x Perkins 100 kVA, 1 (Karachi) x Cummins 110 kVA and 2 (Karachi) x Perkins 150 kVA.



**ITEM NO. 06 SUPPLY OF FUEL OF FOLLOWING DIESEL GENERATING SET ON DATA CENTER, DISASTER RECOVERY CENTER AND FACILITATION SERVICE CENTERS**

Fueling of Diesel Generating Set:						
Sr.#	Item	Description	Qty	Qty Per Month	Location	Fueling Time
1.	Water Cooled Diesel Generating Set	Perkins 20 kVA (Model: P20)	27	375 Liter	27 District of Sindh	As and when required
2.	Water Cooled Diesel Generating Set	Perkins 50 kVA (Model: P50/E)	1	2,000 Liter	Karachi	As and when required



3.	Water Cooled Diesel Generating Set	Perkins 100 kVA (Model: PR100L)	2	4,200 Liter	Hyderabad	As and when required
4.	Water Cooled Diesel Generating Set	Cummins 110 Kva	1	3,750 Liter	Karachi	As and when required
5.	Water Cooled Diesel Generating Set	Perkins 150 kVA (Model: PR150L)	2	6,000 Liter	Karachi	As and when required

**Maintenance and Support**

1. Describe system maintenance options available for a period of one (01) year
2. Indicate the replacement parts inventory.

**Technical Specifications**

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

**Delivery schedule**

The successful bidder would be required to provide the services for support & maintenance for a period of one year after signing of contract.



### PRICE SCHEDULE

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

ITEM NO.	DESCRIPTION OF ITEM/SERVICES	Monthly Price	Total Price
01	SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF DATA CENTER @ REVENUE HOUSE, KARACHI		
02	SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF DISASTER RECOVERY CENTER @ DIRECTOR SURVEY AND SETTLEMENT OFFICE, HYDERABAD		
03	SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF FACILITATION SERVICE CENTER @ 03 DISTRICTS (HYDERABAD, TANDO MOHAMMAD KHAN & JAMSHORO) IN SINDH PROVINCE		
04	SUPPORT & MAINTENANCE FOR THE FOLLOWING ITEMS OF FACILITATION SERVICE CENTER @ 24 DISTRICTS IN SINDH PROVINCE		
06	SUPPLY OF FUEL OF FOLLOWING DIESEL GENERATING SET ON DATA CENTER, DISASTER RECOVERY CENTER AND FACILITATION SERVICE CENTERS		
ITEM NO.	DESCRIPTION OF ITEM	Unit Price	Total Price
05	SUPPLY AND INSTALLATION OF FUEL LEVEL MONITORING SYSTEM FOR DIESEL GENERATING SET ON DATA CENTER, DISASTER RECOVERY CENTER AND FACILITATION SERVICE CENTER ITEMS		



**BID FORM**

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

Sir,

**SUBJECT: "SUPPORT & MAINTENANCE OF HARDWARE, IT EQUIPMENT, POWER SUPPLIES, SURVEILLANCE, MONITORING & FIRE SUPPRESSION SYSTEM OF VARIOUS OFFICES ACROSS THE PROVINCE" UNDER THE SCHEME "LARMIS"**

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

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

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

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

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

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

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

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

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

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





**BID SECURITY FORM**

**WHEREAS** [Name of Bidder] (hereinafter called "the Bidder" has submitted its bid dated [date] for the "SUPPORT & MAINTENANCE OF HARDWARE, IT EQUIPMENT, POWER SUPPLIES, SURVEILLANCE, MONITORING & FIRE SUPPRESSION SYSTEM OF VARIOUS OFFICES ACROSS THE PROVINCE" UNDER THE SCHEME "LARMIS", (hereinafter called "the Bid").

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

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

**THE CONDITIONS** of this obligation are:

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

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

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



By [Bank]  
(Title)

Authorized Representative

**PERFORMANCE SECURITY FORM**

To,

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

WHEREAS [Name of the Contractor] hereinafter called "the Contractor" has undertaken, in pursuance of the bid for "SUPPORT & MAINTENANCE OF HARDWARE, IT EQUIPMENT, POWER SUPPLIES, SURVEILLANCE, MONITORING & FIRE SUPPRESSION SYSTEM OF VARIOUS OFFICES ACROSS THE PROVINCE" UNDER THE SCHEME "LARMIS", dated \_\_\_\_\_ 2015, (hereinafter called "the Contract").

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

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

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

This guarantee is valid until \_\_\_\_\_ day of \_\_\_\_\_, 2015, or twenty-eight (28) days of the issue of the Defects Liability Expiry Certificate, whichever is later.

[NAME OF GUARANTOR]

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

