



# **FOREST HEADQUARTERS, ODISHA**

**ARANYA BHAWAN,**

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS, ODISHA  
CHANDRASEKHARPUR, BHUBANESWAR, ODISHA, PIN-751023**

**RFP / TENDER No. 1095, Dtd 5<sup>th</sup> October 2015**

**REQUEST FOR PROPOSAL TO SUPPLY, INSTALL, COMMISSION IT HW, SW,  
NETWORKING, CLIMATE CONTROL AND POWER EQUIPMENTS FOR THE  
SERVER ROOM, WITH FIVE YEARS OF FULL COMPREHENSIVE WARRANTY  
SERVICE AND SUPPORT; IN THE OFFICE OF PCCF ODISHA,  
BHUBANESWAR-751023**

**IMPORTANT INFORMATION, KEY EVENTS /ACTIVITIES AND DATES:**

**BINDING ON ALL BIDDERS**

SL NO.	PARTICULARS	DATE & TIME	LOCATION / DETAILS
1	RFP / Tender No. & Date	No: 1095, Dtd. 5 <sup>th</sup> October 2015	
2	Commencement of Download of RFP / Tender Document from <a href="http://www.odishaforest.in">www.odishaforest.in</a> <a href="http://www.odisha.gov.in">www.odisha.gov.in</a>	7 <sup>th</sup> October 2015	O/o PCCF, Odisha Forest HQ, Aranya Bhawan, Chandrasekharpur, Bhubaneswar-751023
3	Date of Pre-bid conference	16 <sup>th</sup> October 2015 , 10.30 AM	
4	Last Date and Time of Bid submission (By Hand or Speed Post or Courier )	28 <sup>th</sup> October 2015, 04.00 PM	
5	Date & Time of General Bid opening	29 <sup>th</sup> October , 10.30 AM	
6	Date of Technical Bid Opening	29 <sup>th</sup> October , 12.30 PM	
7	Date of Financial Bid Opening	Will be duly notified after Technical Bid Opening	
8	Date & Timeline to submit pre-bid queries (Through email Only)	4 PM , 14 <sup>th</sup> October 2015	
9	Release of Corrigenda if necessary only at websites	17 <sup>th</sup> October 2015 Onwards	<a href="http://www.odishaforest.in">www.odishaforest.in</a> <a href="http://www.odisha.gov.in">www.odisha.gov.in</a>
10	Contact person for queries	Shri Amlan Nayak , OFS-1 (SG) , DCF IT & GIS	
11	Addressee at which Bid is to be submitted	Conservator, GIS , FITGC , O/o PCCF Odisha	
12	RFP Document Cost (Non-refundable)	Rs.5, 000/- (Rupees Five thousand only)	By Demand Draft in favour of “Principal Chief Conservator of Forests, Odisha” payable at Bhubaneswar.
13	EMD (Refundable, but non-interest bearing)	Rs.5,00,000/- (Rupees Five Lakhs only)	By Bank Guarantee from any Nationalized Bank having its Branch at Bhubaneswar payable in favour of Principal Chief Conservator of Forests, Odisha.
14	Bid validity period	1 years from the date (deadline) opening the Financial Bid.	
15	Contact Telephone No. 0674-2300187 (O)		
16	Disclaimer: Notwithstanding anything else contained to the contrary in this tender document, PCCF-Odisha reserves the right to cancel / withdraw / modify fully or partially the “Invitation of Bids” or to reject one or more of the bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.		

**Section - I**  
**(Invitation for Bids)**

**1.1 Objective**

Conservator of Forests, GIS, (The Authorized Officer) invites Request for Proposals (RFP)/ Tender on behalf of the Principal Chief Conservator of Forests (PCCF), Odisha, (the Purchaser) , sealed quotations/bids from experienced and competent System Integrators (Bidder) to Supply IT HW , SW , Climatic Control and Power Supply System Equipments as defined in this tender namely:

*To Supply, Install, Commission IT HW, SW, Networking, Climate Control And Power Supply Equipment Systems for the Server Room of FITGC with Five Years of Full Comprehensive Warranty Service and Support; in the Office of PCCF Odisha, Bhubaneswar.*

**1.2 About this bid document:**

The tender document comprises of the following Sections:

Section – I	Invitation for Bids
Section – II	Eligibility Criteria
Section – III	Scope of Work
Section – IV	Instruction to Bidders
Section – V	General Terms & Conditions
Section – VI	Technical Specifications
Section – VII	Annexures

**1.3 About the Tender process:**

- A. The tender will have 3 (Three) parts – General Bid, Technical Bid and Financial Bid.
- B. The tender document including addendum/corrigendum, if any, will be available at websites – [www.odisha.gov.in](http://www.odisha.gov.in) , [www.odishaforest.in](http://www.odishaforest.in)
- C. Bidders may download the tender document from website and the tender document cost may be submitted along with the general bid documents.
- D. The tender document, after duly filled in, should be submitted in FITGC at O/o The PCCF – Odisha, Bhubaneswar on or before the due date and time.
- E. Cost of the Tender Document and EMD must be submitted along with the General Bid Documents Only.

- F. Bids received without or with inadequate Tender Document Cost and EMD shall be rejected.
- G. General bids and technical bids shall be opened in the presence of bidders or their representative who may choose of to attend.

## Section - II

### (Eligibility criteria)

The Bidder must satisfy all the following General and Technical Eligibility Criteria to participate in this Tender:

**1. General Eligibility Criteria (Necessary support documents are to be enclosed):**

- A. The General Bid Must Contain the Requisite Tender Document Cost of Rs. 5,000/- and EMD of Rs. 5.00/ Lakhs as per the advised mode in the tender document.
- B. The Bidder should not Bid under any Consortium and no Consortium Bid shall be allowed for this Tender.
- C. The bidder should be a registered company in India under Indian Companies act 1956 or a proprietorship firm operating for last 5-years in the business of Supplying, Integrating and Servicing IT HW & SW. Necessary Certificates are to be enclosed.
- D. The bidder must have been registered with Odisha Sales Tax Authority / Central Sales Tax Authority and must furnish the Copy of the VAT / CST Registration certificate, PAN of the Firm , up to date VAT/ CST clearance certificate and copy of the IT return for last three Financial Years including 2015 along with the general bid.
- E. Average annual turnover in IT HW/SW Supply and Service Segment of the bidder for last 3 (Three) financial years ending on 31 March, 2015, should not be less than Rs. 4.00 Crores (Four Crores of Indian Rupees). Copies of Filed Audited Statements, IT Returns, Sales Tax Returns, VAT / CST Returns and Service Tax Returns etc. are to be submitted to corroborate this. Along with other documents of proof, the bidder to must submit the Firm's Bank Accounts Statements issued by the concerned bank/ banks for three financial years which are only linked to its Income Tax PAN.
- F. The bidder should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Government of India or any State Governments in the country of India. (To be furnished under Notarized Affidavit made at Bhubaneswar)
- G. The bidder must not have any history of defaulting in execution of work orders issued by Government of India or any State Government in the country of India. A self-declaration certificate to this effect should be enclosed. (To be Furnished under Notarized Affidavit made at Bhubaneswar)
- H. The bidder hasn't been blacklisted by any Central/State Government institution and there has been no pending litigation with any government department on account of similar services. (To be Furnished under Notarized Affidavit made at Bhubaneswar)

Note: Items of F-H can be submitted under one Notarized Affidavit)

- I. No Criminal Proceedings in any Court of Law should pending against the bidding Firm Or its Promotors, Or its Directors Or its Executives. (To be Furnished under Notarized Affidavit made at Bhubaneswar)

*Note: Affidavits from F- H can be submitted under one Notarized Affidavit.*

**2. Technical Eligibility Criteria: (Necessary support documents are to be enclosed)**

- A. The bidder should be a reputed System Integrator (SI) of the OEMs under due authorization of the OEMs only. Latest and Freshly issued Original Authorization Certificates of the OEM / OEMs in favour of this tender no 1095, Dtd. 5<sup>th</sup> October, 2015 of PCCF Odisha are to be enclosed for each items under supply; separately or in aggregate.
- B. OEMs whose products are offered must have valid ISO 9001:2008 certifications.
- C. OEMs for the products offered should submit in writing that OEMs would facilitate the bidder on a regular basis with Full Comprehensive Warranty Supports, Updates of Technology/product updates during the entire 5 Years warranty period.
- D. OEMs should have its own service center/personnel in Bhubaneswar for providing minimum 5 (Five) years Full Comprehensive Warranty Services and Support including after-sales service and support. Certificate
- E. The bidder shall submit an undertaking from the respective OEMs that the SW, HW and other Equipments shall to be installed, commissioned, Tested Run and Fault Corrected by OEM engineers and ensure direct and uninterrupted support of the OEMs during the Warranty / Contract Period.
- F. The bidder must have a Business Premise Standard Local Support office in Bhubaneswar.
- G. The Bidder Shall Submit an undertaking that : Onsite support calls to be attended within 30 minutes of the call logged between 9.30AM to 6PM in any working days and the if call logged after 6PM then the same be attended next day .
- H. The Bidder Shall Submit an undertaking that: Maximum 8-hours resolution for all software support-request/problem and maximum 2-days resolution for all hardware problems.
- I. The Bidder Shall Submit an undertaking that: Patches, updates, and upgrades of the equipment's firmware (IOS) to be provided within the warranty and AMC period.
- J. The Bidder Shall Submit an undertaking that: Hardware warranty of the IT Items shall be inclusive of the complete hardware of the Item e.g. Like Cooling Fans and Internal Power supply Modules etc.

- K. The Bidder Shall Submit an undertaking that: SI / Bidder Must be Available for all 24x7 call logging for supports unfailingly.
- L. All the OEM / OEMs Authorizations and Certificates must be Specific to this Tender No-1095, Dtd 5<sup>th</sup> October 2015, of PCCF Odisha.
- M. Bidder must have satisfactory completed execution of similar type of supply and integration costing not less than Rupees 1.00 (One) Crores in a single work order Or Rupees 1.5 (One and Half) Crores cumulatively for two separate work orders Or Rupees 2.0 (Two) Crores cumulatively for three separate work orders for any Govt. department/agency/PSU during last five years ending on 31/03/2015. This value shall be computed by taking into account various items such as Supply, Installation, testing and commissioning of Servers, Networking items and System Software.
- N. Copies of the supply / work orders along with its completion certificates indicating the value of supply should be submitted by the bidder.

**Necessary supporting documents on fulfillment of eligibility criteria should be attached for authentication along with a signed copy of the tender document including addendum/corrigendum, if any, to indicate acceptance of all terms and conditions set forth in the tender. Bidders failing to provide complete information on any of the requirements are liable to be rejected in the bidding process.**

### Section - III

#### (Scope of Work)

The scope of work involves the Supply, Installation, Testing, Commissioning and Providing Full Comprehensive five years onsite warranty services and support for following items for the Server Room of PCCF Odisha in Table-1 ; and **commissioning of the supplied items within 1 (one) month from the date of the issue of the supply order.**

**Table-1: IT Hardware, SW. Networking, Power and Climatic Control Equipments to be procured For FITGC Server Room:**

Sl. No	Name of the Items	Qty. Required	Condition / Use / Functionality	
1	2 x 8 GB DDR4 Server RAM Modules	16 GBs	All items Should be Fully Compatible to Hp DL360pGen-9 Rack Servers Available under DGSnD Rate 2015. OEMs of the Supplied items should certify the compatibility of the items with the Server and compatibility certificate must be obtain from Server OEM Hp before supply and installations of the items.  (Refer Tech Spec from Hp)  The Windows Stack Comprises 5 numbers of above Rack Servers on Windows Server 2012 R2 OS and the Linux Stack Comprises above 6 numbers of Servers on RHEL-7. All the servers in the Server Room of FITGC in two numbers of 42U Rack. All OS is of 64 Bit.	
2	64 x 4 GB DDR4 Server RAM Modules	256 GBs		
3	SATA Server HDD Storage ( For DRB)	19 TBs		
4	Win. Server 2012 R2 Std. OS	5 Nos		
5	Win. SQL Server 2012 Std. RDBMS	6 Nos		
6	RHEL-7 OS	6 Nos		
7	Team Viewer Enterprise (Corporate) SW on Server	1 Nos		
8	Server Farm Switch : 24-port 10G Managed Stackable (24 x 1/10G SFP+ fully populated with 10G-SR modules, 2 x 1G UTP, Redundant P/S and Cooling)	2		
9	Access Switch: 24-port Managed Stackable	2		
10	UTM Firewalls: (2 x 10G SFP+ fully populated with 10G-SR, 4 x 1G UTP, Redundant P/S)	2		
11	42 U integrated racks (2 x 42U Rack and built in 1 x 16-port IP KVM set, with all accessories to populate the server farm)	2		
12	UPS (2x20 KVA with minimum 60 minutes backup)	2		
13	2 Tons Split AC with Climate Control System.	3		To be Fitted in the Server Room
14	70 KVA Cummins Engine Silent DG Set with Auto Main Failure Switchover (AMFS) Functions etc.	1		To be installed and Commissioned in the Premise of PCCF's Office
15	Chemical Earthing and Lightning Protection Gears with all Electrical Wirings:	4 Pits with Conductors and Arrestors On LS		



Bidders to Ensure the Followings while supplying the items and in executing the contract:

- a) Bidders should quote for all the items/services in Table-1. Purchaser reserves the right to procure any of the items or all items or more than the indicated quantity of any items, depending upon the requirement of the purchaser.
- b) The type and quantities of items/services indicated in the tender document are provisional and may change as per the actual requirement.
- c) The selected bidder is required to supply and install the items at FITGC at the O/o PCCF-Odisha, Aranya Bhawan, Chandrasekharpur, and Bhubaneswar-751023.
- d) Bid price is fully inclusive of Onsite Installations, Commissioning, Testing, Installing Updates and Patches, Periodic Tuning, and Full Onsite Comprehensive Warranty Service Supports of all the HW, SW, Power and Climate Conditioning Equipments in the O/o PCCF Odisha for a 5 (Five) Years Warranty Period.
- e) Bidders are requested to inspect the site and premise of installation for assessment of required layout for the hardware and equipments, cabling and other accessories before quoting for the tender.
- f) OEMs shall facilitate the bidder on a regular basis with Full Comprehensive Warranty Supports, Updates of Technology/product updates during the entire 5 Years warranty period.
- g) SW, HW and other Equipments shall to be installed, commissioned, Tested Run and Fault Corrected by OEM engineers and ensure direct and uninterrupted support of the OEMs during the Warranty / Contract Period.
- h) Onsite support calls to be attended within 30 minutes of the call logged between 9.30AM to 6PM in any working days and the if call logged after 6PM then the same be attended next day .
- i) Maximum 8-hours resolution for all software support-request/problem and maximum 2-days resolution for all hardware problems.
- j) Patches, updates, and upgrades of the equipment's firmware (IOS) to be provided within the warranty and AMC period.
- k) Hardware warranty of the IT Items shall be inclusive of the complete hardware of the Item e.g. Like Cooling Fans and Internal Power supply Modules etc.
- l) SI / Bidder Must be Available for all 24x7 call logging for supports unfailingly.

- m) The bidder should quote buyback price for the old Servers, UPS system and related accessories separately in the financial/commercial bid on “AS IS WHERE IS” basis. Interested bidders may visit and inspect these items with during official hours.

#### **Section – IV**

##### **(Instruction to Bidders)**

1. The bidder will be responsible for supply, installation, and commissioning of items as per specification mentioned in the technical bid. The items will be supplied and installed at O/o The PCCF-Odisha, Aranya Bhawan, Chandrasekharapur, Bhubaneswar and in the various field offices as per instruction of purchaser.
2. All the items for the above supply, installation, and commissioning **shall be completed within One months from the date of issue of purchase/work order positively without fail**. Time overrun for installation and commissioning may lead to imposition of fine by the Purchaser @ 0.5 % of Bid Value per Week of Time Overrun.
3. There are 3 (Three) parts of tender papers namely General Bid, Technical Bid, and Financial Bid. The bidder is required to fill out all the three parts of tender documents and place them in 3 (Three) separate sealed envelopes which should be super scribed as: (a) General Bid – Tender No. 1095, Dtd. 5<sup>th</sup> Oct. 2015, (b) Technical Bid – Tender No. 1095, Dtd. 5<sup>th</sup> Oct. 2015 and (c) Financial Bid – Tender No. 1095, Dtd. 5<sup>th</sup> Oct. 2015. These envelopes should be placed in another sealed envelope and addressed to “The Conservator of Forests, GIS, Forest Hqrs, Aranya Bhawan, Chandrasekharapur, Bhubaneswar, Odisha”.
4. The envelope containing General Bid, Technical Bid and financial Bid envelopes must show the name of the tenderer, address and should be superscribed as "Supply, Installation, Testing and Warranty Support of IT HW, SW, NW and Power & Climatic Conditioning Equipments for FITGC Odisha ” Tender No. 1095, Dtd. 5<sup>th</sup> Oct. 2015 of PCCF Odisha , on the top of the envelope.
5. A non-refundable demand draft of Rs. 5, 000/- (Rupees Five Thousand Only) as Tender Document Cost and an EMD of Rs. 5.00 Lakhs (Rupees Five lakhs only) in the form of a Bank Guarantee issued by a Bhubaneswar Branch of a Nationalized Bank, must be enclosed along with the General Bid documents.
6. General bid document not accompanying the requisite Tender document fee and EMD shall be considered as non-compliant, summarily rejected and will not be considered for further evaluation.
7. Pre Bid Queries:

- a. Bidders are not bound to attend Pre Bid Query Meeting in order to participate in the bidding, it is purely optional.
- b. Purchaser of is not bound to answer or respond or incorporate the requests made under all Pre Bid Queries by the Bidders.
- c. Pre Bid Queries are to be submitted by the bidders before designated date by e-Mail only and these queries should be specific with respect to the RFP and under the following tabular format only in an MS Word File Attachment.

Sl. No.	RFP Document Reference by Sections & Page Numbers	Exact and Contents of RFP that requires Clarifications in a Pointed Manner.
1		
2		

- d. Pre-Bid queries in the form of advisory notes shall not be entertained.
  - e. The Bidder or Bidder's designated representative (with authorization and credentials from the vendor citing his position and domain expertise) are invited to attend the Pre Bid Meeting at their own cost, which will take place on the date and time stipulated in the Schedule of Events.
  - f. Keeping with the space constraint of the meeting space, maximum one person per bidder are allowed in the Pre Bid Meeting Sessions.
  - g. The Bidders / their representatives are requested to carry a hard copy of the RFP with them for their ready and handy reference.
  - h. The purpose of the meeting will be to clarify pertinent issues with respect to the relevant and pertinent Pre Bid queries mailed by the bidders and other pertinent queries by the bidders with respect to the clause and section of RFP in a Serial and Sequential Order Only, i.e. from start to the end clause of the RFP with economics of time in the deliberations.
  - i. For all future reference the Pre Bid Meeting will be Video Graphed.
  - j. Any modification / corrigenda / addenda of the RFP if at all necessary as a result of the Pre Bid Meeting and necessity of the purchaser only shall be published in the website of PCCF Odisha and Govt. of Odisha i.e. [www.odishaforest.in](http://www.odishaforest.in) and [www.odisha.gov.in](http://www.odisha.gov.in) Bidders are requested to frequently refer the websites for updated information as updates will not be communicated to bidders individually by the purchaser.
  - k. Any such corrigendum/addendum shall be deemed to be incorporated into this RFP and shall be binding on all bidders.
8. The sealed tenders will be opened as per the indicated schedule in presence of the tenderers or their authorized representatives as may desire to be present. Authorized representatives will be required to produce their authorization letter before opening of the tender, failing which they will not be allowed to be present.

9. Technically qualified bidders will only be informed for their financial bid within stipulated time and this will be communicated to the firm through e-mail and fax. Any clarification/alteration in specification found suitable by the technical committee will be informed to the successful bidders for commercial inclusion.
10. Tenders shall be fully in accordance with the requirements of the general terms and conditions and the technical specifications attached hereto. Appropriate formats furnished with this specification shall be used in quoting tender prices. Incomplete, illegible, unsealed and without signature tenders will be rejected. Telegraphic tenders will not be accepted.
11. All offers should be made in English only and clearly type written.
12. The bidders should furnish the following information and documents with the General, Technical and Financial Bids.
13. Tender should be submitted in the Tender Box kept at FITGC in the O/o PCCF Odisha.
14. No tender is to be handed over to any office staffs unless otherwise communicated officially.
15. In case due date happens to be holiday the tender will be accepted and opened on the next working day. No separate intimation will be sent to bidders in this regard.
16. Bidders shall bear all costs associated with the preparation, submission of its bid and attending the Bid Opening Process and Purchaser shall not be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
17. Bids are to be submitted in the prescribed formats only and Alternative bids / bids on format other than the format prescribed in this tender document and Conditional Tenders will be summarily rejected with forfeiture of the submitted EMD. Submission of alternative bids or conditional bids shall be treated as attempt to vitiate the bidding process by the bidder.
18. The supplier shall pay and bear all other liabilities, taxes and duties not specifically agreed by the Purchaser in the contract.
19. The leaflets/catalogue and standard technical literature etc. of the technical features of the offered equipment's must be submitted for proper evaluation.
20. Warranty/Guarantee: Minimum five (05) years of On-Site Comprehensive Warranty to be provided on the product so quoted from date of satisfactory installation and commissioning.
21. Tenders shall be fully in accordance with the requirements of the general terms and conditions and the technical specifications attached hereto. Appropriate formats furnished with this specification shall be used in quoting tender prices. Incomplete, illegible, unsealed and without signature tenders will be rejected. Telegraphic tenders will not be accepted.
22. PRICE BID MUST BE SUBMITTED IN ENCLOSED PRICE BID FORMAT ONLY.

23. Quantity: The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
24. The rates quoted by the bidder against items contained in bill of quantity of the Tender document, shall be inclusive of all Taxes. The various items of testing, commissioning and maintenance shall be inclusive of all costs such as VAT/ service tax as applicable in Odisha.
25. The price and conditions of the offer should be valid for at least a period of 1 year from the date of tender opening. Tender with validity of less than 180 days may be rejected.
26. Bid Security:
- A. The Tender must be accompanied by a sum of Rs.5.00 Lakhs (Rupees Five Lakhs Only) as EMD in the form of Bank Guarantee on any of the nationalized banks in favour of “PCCF Odisha”, failing which the Tender shall be considered as noncompliant and summarily rejected. The EMD should at least be valid for a period of one year. If the validity of the offer is extended, the EMD duly extended shall also be furnished, failing which the offer of the aforesaid shall not be considered. The EMD is liable to be forfeited, if the bidder withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his offer. In case of a successful bidder the bid security (EMD) shall be forfeited if the bidder fails to accept the Work/Purchase Order or fails to furnish performance security after accepting the Work/Purchase Order within seven (7) working days of issue of Work/Purchase Order.
- B. The EMD of all unsuccessful bidders will be returned by PCCF Odisha without any interest whatsoever within thirty (30) days of finalization of the tender and the EMD for successful bidder/bidders would be returned without any interest whatsoever, only after receipt of performance security / bank guarantee from it as called for in the contract.
- C. The successful L1 bidder shall submit an Irrevocable Performance Bank Guarantee (PBG) in favour of PCCF Odisha within a week of issue of the supply / work order and sign a contract with the purchaser. The PBG shall be issued by a Bhubaneswar Branch of Nationalized bank and will be 10 % of the Bid Value for the First 3 Years of Contract and it will be reduced to 5 % of the Bid Value for the Last 2 Years of Contract. Unsatisfactory works and violation of T &C of the tender shall lead to invocation of PBG by the purchaser.
27. Bidders shall carefully examine the tender documents and the technical specification and fully inform themselves as to all the conditions and matters, which may in any way, affect

the work or the cost thereof. Should a bidder find discrepancies in or omissions from the specification or other documents, or should there be any doubt as to their meaning, they should at once notify the purchaser and obtain clarification in writing. This however does not entitle the bidder to ask for *time beyond the due date fixed for receipt of tenders*.

28. Verbal clarification and/or information given by the purchaser or its employees or representatives shall not be binding on the purchaser.
29. Submitted tender forms with *overwritten or erased or illegible rate or rates* not shown in *figures and words in English* will be liable for rejection. In case of discrepancy between words and figures noted against the item of the tender and between unit rates and the total amount, the decision of the competent authority accepting the tender will be final and binding on the bidders. Corrections in the tender, if unavoidable, should be made by rewriting with date and initial of the tenderer after scoring out of the wrong entries. *Clerical and arithmetical* mistakes may result in *rejection* of the tender.
30. While tenders are under consideration, bidders and their representatives or other interested parties, are advised to *refrain from contacting by any means, and Purchaser's personnel or representatives* on matters relating to the tenders under study. The purchaser if necessary will obtain clarification on tenders by requesting such information from any or all the bidders either in writing or through personal contact as may be necessary. The bidder will not be permitted to change the substance of his offer after the tenders have been opened. This includes any post tender price revision/major modifications. In the event of non-compliance with this provision, the tender is liable to be disqualified.
31. The rate should be quoted in figures as well as in words, if there is variation between the rates quoted in figures and in words, the rates quoted in 'Words' shall be taken as correct.
32. Evaluation criteria:
  - A. Only the bidder who qualifies in general bid criteria will qualify for technical bid.
  - B. Only the bidder who qualifies in technical criteria will qualify for financial bid.
  - C. Award of the contract shall be made to the bidder with the lowest (**L1**) commercial value by taking in to account all the items. The Base Price of the Items including Import and Excise Duty will be considered in Evaluation of Financial Bid that excludes the Tax Components like VAT, Sales Tax and Service Taxes.
  - D. Tax Amount of VAT/ CST, ST etc will be borne by the Purchaser at the prevailing Tax Rate as it is a transfer payment between Govt. to Govt. However Tax is to be indicated in the Financial Bid for the Purpose of Information Only.

E. Purchaser reserves the right to negotiate specifications, prices during evaluation if found necessary. **Bidders must sign and stamp each page of their tender without which the tender will be considered incomplete.**

## Section - V

### (General Terms & Conditions)

#### 1. PURCHASER

Principal Conservator of Forests – Odisha, Forest Head Quarters, Aranya Bhawan, Chandrasekharpur, Bhubaneswar.

#### 2. RELEASE OF EQUIPMENT

The bidders shall be responsible for releasing the equipment's/items from the carriers/transporters. The equipment's shall be delivered and installed at O/o The PCCF-Odisha, Bhubaneswar located at Forest Head Quarters, Aranya Bhawan, Chandrasekharpur, Bhubaneswar.

#### 3. PERFORMANCE BANK GUARANTEE

For items mentioned in Table-1, after successful installation at site, the bidder shall furnish an irrevocable ***Performance Bank Guarantee (PBG) for 10% (ten percent)*** of the contract price prior to the release of any payment. The BG should cover due fulfillment by the bidder of all the terms and conditions of the contract inclusive of guarantee to the purchaser the delivery, installation / commissioning of equipment, the restitution of advances to the supplier in advance of delivery in case of non-delivery and the contractor's full compliance with the warranty and guarantee provisions here in the form to be prescribed. PBG shall be invoked by the purchaser in the case of failing to execute the contract as per T & C of the agreement. **This bank guarantee shall remain valid till the end of support period plus 3 months i.e 5 Years and 3 months.**

#### 4. PRICE

The prices quoted should be in Rupees for delivery F.O.R. destination and inclusive of Excise Duty and other taxes but excluding local Sales Tax (OST/VAT/CST). ***Any price other than F.O.R. destination price will not be considered.*** The F.O.R. destination price should be inclusive of ***Entry Tax***. OST/VAT/CST amount should be mentioned clearly and separately. If OST is paid in advance the necessary document need to be enclosed. If necessary required Service Tax shall be paid by the purchaser as per the law in vogue.

#### 5. TERMS OF PAYMENTS

- A. **75%** of the contract price (i.e cost of the Items actually supplied) shall be paid within 90 days of successful delivery, Installation, Commission and Testing of all



the HW, SW, Equipments at sites with certification thereof by designated departmental authority and OEMs of supplied hardware and SW on the letter head of OEM and on submission of PBG and bill by the Bidder / SI.

- B. **25 %** of the Contract Price will be released on quarterly basis over five years with the satisfactory performance of the supplied items under full warranty support and services as defined in the technical bid criteria.

## **6. BILLING**

The supplier shall specify the **Branch / Location** from which they will raise the bill and in whose favour payment will be released.

## **7. DELIVERY AND INSTALLATION**

Delivery period of goods/items, their Installation, Testing and Commissioning will be the important consideration for award of the contract, the bidders should therefore clearly indicate the period of delivery, installation and commissioning. Bidders should give consent/ preparedness for delivery and commissioning of the equipments/goods/items within 1 (One) months after receipt of the work/purchase order. The final installation certificate has to be provided by OEMs on the letter head of the OEMs.

## **8. PENALTY FOR DELAY IN COMPLETION OF CONTRACT**

The delivery/ installation/commissioning period quoted in the tenders should be guaranteed under a *penalty @ 0.5%* on total value of the equipment per week or amount thereof of delay subject to maximum 5% of the contract/purchase order value. The purchaser reserves the right to cancel the order if it is not executed within the prescribed completion time and forfeit the entire EMD amount. Delay in supply / installation /commissioning in the part of the supplier for equipment shall be treated as delay in the delivery/ installation of the goods. The purchaser reserves the right to cancel the order in full or in part. In the event of such cancellation, the purchaser shall have the right to *collect penalty from the performance guarantee*. However, for valid reasons (like any unavoidable situation at the client site) duly notified in advance and considered by the purchaser, revised delivery schedule may be accepted at the sole discretion of the purchaser.

## **9. FORCE MAJEURE CONDITION**

If the execution of the contract/supply order is delayed beyond the period stipulated in the supply order as result of outbreak of hostilities, declaration of an embargo or blockade of fire, flood, acts of God, then purchaser may allow such additional time by extending the time frame as considered to be justified by the circumstances of the case and its decision

will be final. If additional time is granted by the purchaser, the supply order shall be read and understood as if it had contained from its inception the execution date as extended.

#### **10. STANDARDS**

The equipment shall conform to the National / Internationally Accepted standards as applicable. Necessary Documentation on compliance to standard are to be provided against each item.

#### **11. COMPLETENESS OF EQUIPMENT**

The equipment shall be complete in all respects. Any components fitting, etc. which may for the equipment shall be deemed to have been included in the contract and shall be supplied by the supplier/bidder at no extra cost.

#### **12. INTERCHANGEABILITY**

All similar materials shall be identical and interchangeable with one another in order to minimize the number of spare parts.

#### **13. SALES TAX AND INCOME TAX CLEARANCE**

The attested copies of Odisha Sales Tax Clearance Certificate and Income Tax Clearance Certificate should be enclosed with the tender. Certificate validity must be available on the date of opening of General Bid.

#### **14. INSURANCE OF EQUIPMENTS**

The materials to be supplied should be *insured* by the vendor on behalf of the purchaser from his warehouse to the purchaser's site. The insurance coverage should cover the transport of materials by Rail/Road to the destination. The insurance policy shall remain valid for minimum period of 60 days after installation and commissioning of equipment at site. The materials/equipment found lost or damaged in transit or during installation and commissioning should be immediately replaced.

#### **15. REPLACEMENT**

If the material/ equipment or any portion thereof gets damaged or lost during the transit and installation, the vendor shall effect the replacement of such materials/ equipment within a reasonable time to avoid delay in commissioning the equipment.

#### **16. RIGHT TO REJECT/ACCEPT THE TENDER**

The purchaser reserves the right either to reject or accept any or all tenders. **The purchaser has exclusive right to alter the quantities of materials at the time of placing the final purchase order. The type and quantity of items indicated in the tender are provisional and may change as per the actual requirement.** After placing the purchase order, the

purchaser may order to defer the delivery of the material. It may be clearly understood by the bidders that the purchaser need not assign any reason for the above action.

#### **17. INSPECTION**

The purchaser or his authorized representatives may inspect during the delivery, installation and commissioning of the equipments/items at the client site and the vendor shall afford all facilities for such inspection at the site. The bills shall be submitted by the bidder after such inspection.

#### **18. WARRANTY**

The equipment / stores covered by this specification should be guaranteed for satisfactory operation for a period **of 5 years** from the date of successful installation and commissioning.

#### **19. PENALTY FOR DOWN TIME AND RESPONSE TIME DURING THE WARRANTY PERIOD**

The bidder must have to be given written assurance of more than 95% uptime of all the equipments to be supplied and installed by them and defaulting which would invite the penalty 0.5 % per week on cost of the equipment.

#### **20. REJECTION**

Before acceptance of the system if the equipment supplied by the vendor is found defective in materials or workmanship or otherwise not in conformity with the requirements of the contract, the purchaser shall have the right to either reject or to request in writing for rectification of the defects. Then the bidder shall with utmost diligence, at his own expense, make good the defects so specified or replace the defective equipment if the bidder fails to do so, the purchaser either.

- A. May at its option replace or rectify such defective equipment and charge to the bidder the excess cost incurred by the purchaser plus 15% (Fifteen percent) extra.

**OR**

- B. Terminate the contract for default. Further, in the event, the vendor is not able to rectify or replace the faulty equipment within reasonable time, the purchaser reserves the right to acquire the said equipment at a reduced price considered equitable under the circumstances, and under such conditions the decision of the purchaser shall be final.

#### **21. PATENT RIGHTS ETC.**

The bidder shall indemnify the purchaser against all claims, actions, suits and proceedings for the infringement or alleged infringement of any patent, design or copy write protected either in the country of origin or in India by use of any equipment supplied by the vendor claims if made on the purchaser, shall be notified to the vendor of the same and the vendor shall at his own expense either settled such dispute or conduct any litigation that may arise there from.

## **22. JURISDICTION OF HIGH COURT OF ODISHA**

Suites, if any arising out of the contract shall be filed by either party in only in a court of Law to which the jurisdiction of the Hon'ble High Court of Odisha extends.

## **23. EXTRAS**

The bidder shall when asked in writing by the purchaser, perform extra work and furnish extra materials, not covered by the specifications or included in the schedule, but forming and inseparable part of the work contracted for the terms of payment for such extra work or materials shall be mutually agreed upon in advance.

## **24. INSTALLATION SUPERVISION AND SERVICES**

The bidder shall depute experienced Engineer/Technicians for installation, commissioning and testing of equipments supplied.

## **25. EXTENSION OF DELIVERY PERIOD AND TERMINATION OF CONTRACT:**

If for any reason, the bidder finds it impracticable to supply the equipment within stipulated delivery period, he will give notice in writing of such reasons and his failure to supply the materials. He may ask for extension of time, which may or may not be granted by purchaser. Should the contractor's preparation for the commencement of delivery in conformity with the contract or should he neglect to comply with any directions given to him or in any respect fail to perform the contract, the purchaser will have power to cancel the contract in which case the vendor shall be liable for any expense, loss or damage which the purchaser or indenter may incur or sustain by reason of or in connection with the Contractor's fault in addition to the forfeiture of the performance guarantee to the purchaser.

## **26. OBLIGATION TO CARRY OUT PURCHASER'S INSTRUCTION**

The Vendor/Supplier shall also satisfy the purchaser or this inspector that adequate provision has been made to carry out his instructions fully and with prompt attitude.

## **27. TIME AND DATE OF COMPLETION OF CONTRACT**

The time and date stipulated in the tender for the completion of the work shall be deemed to be of the essence of the contract. In case of delay the vendor shall in addition to other liabilities under the contract be liable for all cost of damage and/or hold up in the work due

to his failure to complete the contract or portion thereof. The purchaser shall be entitled to withhold any payment until the whole work is completed and recover from the vendor cost damages and/or held up in the work as stated above. But if the delay is due to any cause such as strike, lockout fire, accident, riot that the purchaser may admit as reasonable ground for further time, the purchaser shall allow such additional time as he may consider to have been required by the circumstances of the case.

**28. FINAL AUTHORITY**

The final authority for payments will be the purchaser except otherwise specifically stated and if the bidder desires to appeal against any matter he shall appeal to “The Principal Chief Conservator of Forests, Odisha” whose decision on such matters shall be final and conclusive.

## Section - VI

### (Technical Specifications)

#### A. Specifications of the SW , Networking and Power Equipments for Server Room:

1. **Windows Server 2012 R2 Std. 64 Bit** (As per the latest spec of OEM), with all Updates, patches and periodic tuning for 5 Years.
2. **Windows SQL Server 2012, Std. 64 Bit** (As per the latest spec of OEM), with all Updates, patches and periodic tuning for 5 Years.
3. **RHEL-7, 64 Bit, 9-5 Support** (As per the Latest spec of Red Hat Linux Distro/ OEM), with all Updates, patches and periodic tuning for 5 Years.
4. **Team Viewer Enterprise (Corporate), 64 Bit , On Linux Server Version** ( As per the Spec of the OEM)
5. **DDR4 RAMs:** As mentioned in the BOM, and in conformity with the Compatibility Spec of Server OEM (Hp)
6. **SATA HDDs :** 2 TB Enterprise Class Server SATA HDDs , in conformity with the Compatibility Spec of Server OEM (Hp)

#### 7. Server Farm Switch:

Sl. No	Minimum Specs	Compliance (Yes/No)	Remark(S)
1	Should be a full featured dual-stack (IPv4 & IPv6) Layer-3 switch		
2	Should have 24 x 1G/10G SFP+ ports. Should be delivered with minimum 2 x 1G UTP ports. Required cables and accessories to be provided for rack mounting including completion of installation.		
3	a) Should have internal redundant power supplies and redundant fan trays, suitable console cable and rack mounting kit from day 1. b) A single power supply should have readiness from day 1 to meet the fully populated switch requirement.		
4	Should deliver wire-speed, line rate performance on all ports		
5	Should support minimum 32K MAC address entries and minimum 4000 VLANs		
6	Should support minimum 5000 IPv4 and IPv6 routing entries		
7	Should support virtual switching or equivalent for achieving active-active HA using 2 or more physical switches together into a single logical managed fabric.		

8	a) Should have minimum routing/switching capacity of 480 Gbps per switch and minimum packet forwarding throughput/rate of 357 Mpps from day 1. b) Should have minimum 2GB RAM c) Less than 5 microsecond latency		
9	Should support dynamic routing protocols like OSPF and BGP from day 1 for both IPv4 and IPv6.		
10	Should support software defined networking (Openflow/equivalent)		
11	Should support MSTP, per-port QoS, minimum eight hardware queues per port, SP queuing or equivalent, cross-module link aggregation.		
12	Should have VRF/equivalent support from day 1		
13	a) Should have software modularity with process modules running independently in their own protected memory space and with the ability to do individual process restart. b) Should allow individual software modules to be patched/upgraded for enhanced serviceability.		
14	Should support jumbo frames up to 9 KB.		
15	a) Should have a full-featured console with familiar CLI. b) Should support Telnet, SSH, RBAC, Multiple configuration files, configuration rollback functionality, SNMP, RMON, sFlow/equivalent.		
16	Should be able to monitor link connectivity and shut down ports at both ends if unidirectional traffic is detected, preventing accidental loops in STP-based networks.		
17	Should have Layer 2 and Layer 3 multicast support for IGMP and PIM (SM, DM) for both IPv4 and IPv6		
18	Should support L2, L3 and L4 access control filters and should have complete IPv6 routing and management from day 1		
19	Should have RoHS compliance.		
20	Should have 3-years 24x7 warranty from OEM		

### 8. Access Switch:

Sl. /No	Specification	Compliance (Yes/No)	Remark(S)
1	Should be a full featured dual-stack (IPv4 & IPv6) Layer-2 switch		
2	Should have 24 x 1G UTP ports with additional 2 x 1G/10G SFP+ ports. Should have additional 2 x 10G SFP+ ports for stacking/uplinking purpose		

	with minimum stacking bandwidth of 40Gbps. Required cables and accessories to be provided for rack mounting including completion of installation.		
3	Should have minimum 128 Gbps forwarding bandwidth & minimum 95 Mpps packet forwarding throughput.		
4	Should have minimum 16000 MAC address entries and minimum 1000 VLANs.		
5	Should have IPv6 management and routing readiness from day 1.		
6	Should support UDLD or equivalent.		
7	Should support L2/L3/L4 access control filters (ACLs) from day 1.		
8	Should support MSTP, per-port QoS, minimum eight hardware queues per port, SP queuing or equivalent, link aggregation (LACP) and LLDP.		
9	Should support virtual switching or equivalent for achieving active-active HA using 2 or more physical switches together into a single logical managed fabric.		
10	Should support software defined networking (Openflow/equivalent)		
11	Should support management over GUI, CLI, RMON (minimum 4 groups), and SNMP. sFlow (RFC 3176) or equivalent for traffic analysis.		
12	Port mirroring to duplicate port traffic (ingress and egress) to a local or remote monitoring port.		
13	Should support static routing.		
14	Should have RoHS compliance		
15	Should have 3-years 24x7 warranty from OEM		

## 9. UTM Firewall:

Sl. /No	Specification	Compliance (Yes/No)	Remark(S)
<b>1</b>	<b>Architecture</b>		
1.1	Should be an appliance with 64 bit OS.		
1.2	Should have minimum 2 x 1G/10G SFP+ and 4 x 1G UTP ports, a console port, and 2 USB ports.		
1.3	Should have firewall configurable Internet/DMZ/WAN/VPN ports		
1.4	Should have minimum 2 hardware bypass segments		
1.5	Should have redundant power supplies.		
<b>2</b>	<b>Management</b>		
2.1	Should have console, SSH, and GUI management interface.		
<b>3</b>	<b>Performance</b>		



3.1	Should have minimum firewall throughput of 20000Mbps (UDP)		
3.2	Should support minimum 150000 new sessions per second and minimum 1500000 concurrent sessions from day 1.		
3.3	Should have minimum 4000Mbps of IPSec VPN throughput.		
3.4	Should have minimum 4000Mbps of gateway anti-virus throughput.		
3.5	Should have minimum 4000 Mbps of IPS throughput.		
3.6	Should have minimum of 4Gbps of UTM throughput (minimum achievable throughput when firewall, IPS, Web & Application Filtering and Anti-Virus features are turned on)		
3.7	Should support unlimited authenticated users/nodes.		
<b>4</b>	<b>Stateful Inspection Firewall Features</b>		
4.1	Should have user level identification and filtering		
4.2	Should support filtering of various top application protocols.		
4.3	Should support control over social networking in addition to IM and Communication Apps.		
4.4	Should support access control criteria such as user identity, source, and destination		
4.5	Should support blocking of anonymous proxies.		
<b>5</b>	<b>Gateway Anti-virus &amp; Anti-spyware</b>		
5.1	Should support scanning of HTTP, HTTPS, FTP, SMTP, POP3 and IMAP		
5.2	Should have automatic signature database update		
5.3	Should have Virus, Worm and Trojan detection as well as removal.		
5.4	Should have spyware, malware, and phishing protection		
<b>6</b>	<b>Anti-SPAM</b>		
6.1	Should support filtering based on message header, size, sender and recipient with subject line tagging and spam mail redirection.		
6.2	Should support IP address black list/white list.		
6.3	Should have IP repudiation based SPAM filtering.		
<b>7</b>	<b>IPS</b>		
7.1	Should have signature based IPS with minimum 4000 signature database.		
7.2	Should allow user based policies.		
7.3	Should have automatic signature database update.		

7.4	Should support protocol anomaly detection and DDoS attack prevention.		
<b>8</b>	<b>Web Filtering</b>		
8.1	Should have Integrated/inbuilt web category database with support for minimum 50 categories.		
8.2	Should support blocking by URL, keyword and file type.		
8.3	Should support http and https protocols for web content filtering		
8.4	Should support blocking malware, phishing and pharming URLs.		
8.5	Should support data leakage control via HTTP and HTTPS upload		
<b>9</b>	<b>Application Filtering</b>		
9.1	Should have inbuilt/integrated application category database.		
9.2	Should support blocking gaming, IM, P2P, and proxy applications.		
<b>10</b>	<b>Virtual Private Network</b>		
10.1	Should support IPSec, L2TP, PPTP and SSL VPN.		
10.2	Should support 3DES, DES, AES, Two Fish, Blow Fish encryption.		
10.3	Should support IPsec NAT traversal.		
10.4	Should support domain name support for tunnel end points.		
10.5	Should support both TCP and UDP tunneling for SSL VPN.		
10.6	Should have inter-operability with major IPSec VPN gateways.		
<b>11</b>	<b>Networking</b>		
11.1	Should support failover (automated failover, multi-wan failover).		
11.2	Should support policy based routing based on application as well as user identity.		
11.3	Should have integrated HTTP proxy.		
11.4	Should support dynamic routing & IPv6 readiness from day1		
<b>12</b>	<b>Management</b>		
12.1	Should have console, SSH, and GUI management interface.		
12.2	Should support integrated/external reporting.		
<b>13</b>	<b>Compliance, Warranty and Subscriptions</b>		
13.1	Should have RoHS compliance.		
13.2	Should have 3-years UTM subscription bundled with the appliance.		
13.3	Should have 3-years 24x7 warranty from OEM.		

#### 10. 42U Rack for the Servers:

Sl. No	Specification	Compliance (Yes/No)	Remark(S)
1	42U floor standing enclosure rack with 800mm width and 1000mm depth		
2	CRCA Steel Frame with MS Profiles with following items: Removable Side Panels: 2 nos Top cover with cable entry: 1no Bottom cover with cable entry: 1no 19" Mounting Angles: 2 pairs Finish: Powder coated to 80 microns, Matt finish		
3	Front (HEXAGONAL) Door 800W 42U Fully with lock		
4	Rear (HEXAGONAL) Door 800W 42U Fully with lock		
5	Reducing Cable Chanel (2 pairs)		
6	CASTOR SET & LEVELING LEGS		
7	PDU Vertical 10 x 15/5 Amp with 32MCB and Indicator with 3mtr Cable and 3 Pin Plug (2 sets)		
8	Cooling Fan 230v 90cfm (4 nos.)		
9	Hardware front panel (20 nos/pkt – 1 pkt)		
	Earthing kit		
10	Should be provided with required rack joining kit for the offered racks		
11	Should be provided with 1 x 16-port IP KVM set suitable for in-rack deployment. Should have suitable console monitor of minimum 17" WXGA TFT/LCD configuration. Should also have suitable keyboard and touchpad in rack-mount configuration including accessories. Should include suitable interface KVM cables for all 16 ports to connect the servers		
12	5-years warranty and maintenance		

#### 11. 20 KVA Online UPS

**General Description:** Supply, installation, testing and commissioning of true online, double conversion, high efficiency, and high power factor Uninterruptible Power Systems (UPS) rated at 2 x 20 KVA – 2 sets with battery backup support for 30 minute with each UPS as required. The backup batteries should be supplied with the necessary arrangements to mount outside the cabinet.

**Scope:**

- The scope shall include design, supply, installation, testing and commissioning of the complete UPS system and related accessories including:
- All Server racks will get power feed from two independent 2 x 20 KVA UPS systems to ensure redundancy.
- All systems should be tested in factory as per the manufactures recommended procedure for all operating parameters and the test results should be provided during the installation.
- Delivery at site, unloading, handling, installation of complete system including interconnection from the UPS system to batteries and to input / output panels switches. All interconnections shall be done using multi-strand Flexible Copper conductor cables of appropriate sizes.
- Scope includes battery bank connections and providing safety barriers for all bus bars and cable connection leads on battery racks.
- Energizing of UPS and Battery bank commissioning.
- UPS control parameters setting and complete testing of system on load.-
- Service backup by engineer till system is fully operational and subsequently training is to be provided to the concerned persons of the Institute.
- Any upgrade of the system hardware during the warranty period should be supplied at free of charge.
- Acceptance tests will be carried out after installation and the systems will be taken over only after successful completion of the acceptance tests.
- Operation and service manuals of the systems containing technical / Electronic drawings / circuit diagrams complete in all respects should be supplied. -

**Specification / features of the Each UPS system are as follows:**

- Widest input range
- Double conversion and IGBT technology
- Full IGBT Rectifier / Battery charger
- IGBT based Inverter
- Batteries to support 30 minutes full load backup for each UPS.
- Power distribution panels
- Facility for remote viewing
- Easy to expand in a cost effective way
- Other specifications:

OUTPUT PARAMETER	
Capacity	20kVA/18kW
Power Factor	0.9 at 30Deg C
Configuration	3- ph, 4-wire,N +PE / 1 phase, L-N + PE
Voltage Regulation	(+/- 1%)
Voltage THD	<=2% - Linear load <=5% - Nonlinear load
Frequency	50/ 60Hz
Frequency Regulation (synchronized with bypass)	(+/- 2 Hz)
Slew Rate	0.2Hz/s
Crest Factor	3:1 max.
Recovery time	60 millisecond

Over load capacity	< 105% - continuous; 105-125% - < 5 min; 125-150% - < 1 min >150% - < 200ms (after overload shifted to bypass)
AC-AC Efficiency	>93% up to 94%
Transfer time - Mains to battery	0 millisecond
Transfer time - Inverter to bypass Synchronization mode	1 millisecond
Parallel Redundancy	N+N
<b>INPUT PARAMETER</b>	
Configuration	3- ph, 3-wire,N +PE
Nominal Voltage	380/400/415V
Input Voltage range	3 Phase 228Vac-478Vac
Frequency	50/60 Hz
Frequency range- Hz	40 to 70 Hz at full load
Power Factor	>0.99 at full load
<b>BYPASS</b>	
Voltage Range	+15% -20%
Frequency	50/ 60Hz
Frequency Range	+/-20%
<b>BATTERY PARAMETER</b>	
Type	SMF
No. of battery blocks	32-40
Battery Voltage	384-480Vdc
<b>ENVIRONMENT PARAMETER</b>	
Operating temperature	0 to 40 deg. Centigrade
Storage temperature	-40 to 70 deg. Centigrade
Relative Humidity	95% RH non condensing
Altitude	2000 meters
Noise level	<58db
<b>MECHANICAL PARAMETER</b>	
Height X width X Depth (MM)	130(3U) X 435 X 750
Weight	35 Kg
Ventilation	Forced - Air cooled
Cable Entry	terminal block
Color / Panel finish	EG7021
Protection	IP20
Parallel	3+1, Built in Provision
LBS	Built in
<b>MONITORING SOFTWARE</b>	SNMP, Dry contact card, site monitoring / shutdown for multiple servers

## 12. 70 KVA Silent and AMFS DG Set:

**Warranty and Support:** Full Warranty and Support for minimum 3 Years and Optionally Extensible by the Client for further 2 Years.

**Diesel Engine:** Cummins make Diesel engine developing 154 BHP rated at 1500 RPM, water cooled, four stroke, electric start, 6 cylinder model, conforming to BS: 5514 with capacity of

10% over loading for one hour in twelve hours duration having following accessories as scope of supply

**Air Intake System**

- Air intake manifold.
- Air cleaner.
- Vacuum Indicator

**Exhaust System**

- Turbocharger.
- SS Flexible bellow.
- Companion flanges for silencer & bellow.
- Residential Exhaust silencer.

**Coolant System**

- Engine water pump.
- Radiator.
- Coolant additive concentrate.

**Lubricating System**

- Oil pan.
- Engine mounted lube oil pump.
- Lube oil filter.

**Fuel System**

- MICO inline fuel system with Mechanical Governor.
- 12V DC solenoid coil.
- Replaceable fuel filter.

**Starting System**

- 12V DC electric starter.
- 12V DC battery charging alternator.

**Microprocessor Based DG Set Controller:**

It should be microprocessor based Genset monitoring & control system mounted in the Genset control panel .The control to provide a simple operating interface to the generator set, manual & remote start /stop control, shutdown fault indication. The integration of all functions into a single control system provides enhanced reliability & performance compared to conventional generator set control systems.

<b>CONTROL:</b>	<ul style="list-style-type: none"> <li>➤ Off /Manual/ Auto Control switch</li> <li>➤ Manual Run / Stop Control switch</li> <li>➤ Data Logs- Including Engine runs time and controller on time.</li> <li>➤ Fault history- Provides a record of the most recent fault conditions with control hours' time stamp.</li> </ul>
<b>LED indicating lamps:</b>	<ul style="list-style-type: none"> <li>❖ Genset running/Remote Start</li> <li>❖ Auto/Manual/ Stop</li> <li>❖ Shutdown /warning</li> </ul>

<b>Alternator</b>	<ul style="list-style-type: none"> <li>❖ Voltage( single or three phase line-line and line –Neutral)</li> <li>❖ Current.(single- three phase)</li> <li>❖ Frequency.</li> <li>❖ KVA( Three phase and total)</li> </ul>
<b>Engine</b>	<ul style="list-style-type: none"> <li>❖ Engine Water Temperature</li> <li>❖ Starting battery voltage</li> <li>❖ Engine running Hours</li> <li>❖ Engine oil Pressure</li> </ul>
<b>PROTECTION WARNING Engine:</b>	<ul style="list-style-type: none"> <li>❖ Low Lube Oil Pressure warning/Shutdown</li> <li>❖ High Engine Temperature Warning/Shutdown</li> <li>❖ Low Coolant Temperature Warning</li> <li>❖ Sensor Failure Indication</li> <li>❖ Low and High Battery Voltage Warning</li> <li>❖ Weak Battery warning</li> <li>❖ Cranking Lockout</li> <li>❖ Fail to Start Shutdown</li> </ul>
<b>Alternator:</b>	<ul style="list-style-type: none"> <li>❖ Loss of sensing voltage Warning/ shutdown</li> <li>❖ High / Low Voltage shutdown</li> <li>❖ Under / Over Frequency shutdown/ warning</li> </ul>

**Alternator:** Synchronous alternator of **STAMFORD** make of 70 KVA rating, single bearing, suitable for continuous operation at 40°C ambient temperature at 1500 RPM generating 415 volts at, 0.8 p.f. (Lag) 50 Hz, 3 phase, 4-wire system. The alternator shall be Brushless type, self-excited & self-regulated through an AVR. The alternator will be suitable for tropical climate and shall generally conform to IS: 4722. The salient features of the alternator are : -

- ❖ + 1.0% voltage regulation (max) in static conditions.
- ❖ IP:23 protections with class ‘H’ insulation & temperature limited to class 'H’ insulation
- ❖ Permanent lubricated sealed bearing.
- ❖ Permissible overload of 10% for one hour in 12 hours of operation.

**Base Frame:** Engine and alternator are mounted through AVM pads, on a common channel iron fabricated Base Frame.

**Fuel Tank:** Fuel tank **215 ltrs** from 14 SWG sheet metal complete with drain valve, air vent, and inlet and outlet connection placed inside the acoustic enclosure under the base frame.

**Battery:** Cummins Pulselite make maintenance free batteries of capacity 12V, minimum capacity 65Ah (1 Nos)

#### **Others**

- Vibration damper.
- Front engine support.
- Flywheel with housing.
- Strong Enclosure and Rust Proof Casing
- Emergency Safety Measures

**Documentation:** 1 set of following documents shall be provided with each set:

- ❖ O & M Manual of Diesel Engine
- ❖ Test Certificate of diesel engine
- ❖ Test certificate of Alternator
- ❖ Test Certificate of D.G. Set

### **13. Chemical Earthing and Electrical Wirings**

As per BIS Standards for Chemical Earthing Pits and Wirings works necessary for IT Infrastructure will be carried out by a reputed and licensed Electrical Contractor who has undertaken such works earlier. The wirings and chemical earthing pits should be certified by the Govt. Electrical Inspector on records before use. The OEMs for Servers and Networking Equipments must certify the suitability of Power Supply before installations.

**14. Climatic Control Equipments:** 3 Numbers of 2 Ton Harsh Environment and High Performance reputed brand Split Air Conditioners from Carrier / Hitachi / Voltas / Bluestar etc used for cooling and climate conditioning of critical IT HW and Enterprise Class Electronics Infrastructure with the following Features and Functions each machine and their aggregates : (Suggestive but not Exhaustive)

- A. 3 Star of Star or above power Rating & No CFC Compliant
- B. Capable to run continuously for 48 Hours with Maximum outside ambient temperature of 55 Deg. Celsius.
- C. Should withstand overload of 25% beyond rated Capacity for at least two hours.
- D. Should withstand wide input voltage fluctuation from 180-280 V
- E. Automatic Temperature and Humidity Control with heavy duty Dehumidifiers.
- F. Programmable Load Balancing and Switching System to distribute cooling load among AC Machines so that at any point of time number of machines under cooling load is more than or equals to zero but less than three, and no single machine operates more than four hours at a stretch by maintaining appropriate time phase lag between machines.
- G. Machine Failure and Over Load Alert Alarm and Alert Messenger System enabled over GSM & Mobile data.
- H. Intelligent / Auto and Manual Control of Ambient Conditions with Remote Monitoring and Control Function of the ambient conditions over GSM and Mobile Data.

We Expect a Rational, Wide and Proactive Response from all the Prospective and Eligible Bidders. With Best Wishes.

-Sd-

**Conservator of Forest, GIS  
Forest Hqrs. Odisha**



**Section VII**  
**(Annexures)**

**Note:**

- 1. All the Annexures pertaining to Bidder's Firm are to be signed by Executives not below the Rank of a Director appointed by the Company's Board or the Promoter himself if the Bidder's Firm is proprietorship firm.**
- 2. Bank Guarantees may be issued by the Nationalized Bank on their standard format for Govt. Tenders as in vogue , but it must fulfill all the requirements of the T & C of this Tender.**

**GENERAL INFORMATION (General Bid)**

Company Name			
Registered Office Address			
	City		PIN
	State		Website
	Telephone		Cell
	Fax		Email
Office Address in Odisha)			
	City		PIN
	State		Website
	Telephone		Cell
	Fax		Email
Address in any other locations			
	City		PIN
	State		Website
	Telephone		Cell
	Fax		Email

Bidder's Signature

Seal of the Firm

Attach a company profile note under seal and signature limiting only within two pages.

**SELF DECLARATION (Gen. Bid)**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To,

The Principal Conservator of Forests, Odisha

<< Address >>

Ref: Tender enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015

In response to tender enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015, I, \_\_\_\_\_ in the capacity \_\_\_\_\_ hereby declare that our company / firm \_\_\_\_\_ is having unblemished past records and was not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time.

Signature of Witness

Date:

Place:

Signature of Bidder

Date:

Place:

Company seal

**SELF DECLARATION (General Bid)**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To,

The Principal Conservator of Forests, Odisha

<< Address >>

Ref: Tender enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015

In response to enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015 , I .....M/s/Mr. \_\_\_\_\_ in the capacity of \_\_\_\_\_ hereby declare that our company/firm \_\_\_\_\_ is having unblemished past record and have not been declared blacklisted by any Central/State Government/PSU institution and there has been no pending litigation with any government department on account of similar services. I/We further declare that our company has not defaulted in executing any Government order in the past.

Signature of Witness

Date:

Place:

Signature of Bidder

Date:

Place:

Company seal

**REPRESENTATIVE AUTHORIZATION LETTER (General Bid)**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To,

The Principal Conservator of Forests, Odisha

<< Address >>

Ref: Tender enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015

In response to enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015, M/s/Mr. \_\_\_\_\_ is hereby authorized to sign relevant documents on behalf of the company/firm. She/he is also authorized to attend meetings and submit technical & commercial information as may be required by you in the course of processing above said application.

Thanking You.

(Authorized Signatory)

(Representative signature)

(Signature is attested)

Company seal

**ACCEPTANCE OF TERMS & CONDITIONS IN THE TENDER DOCUMENTS (General Bid)**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To,

The Principal Conservator of Forests, Odisha

<< Address >>

Ref: Tender enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015

In response to enquiry no. 1095, Dtd. 5<sup>th</sup> October 2015, I have carefully gone through the terms and conditions contained in the above tender.

I declare that all the provisions of the tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Signature of Witness

Date:

Place:

Signature of Bidder

Date:

Place:

Company seal

**Annexure-6**

**List of All Enclosures: (General Bid):**

<b>SL. No.</b>	<b>Description of all Enclosures as required in the tender.</b>	<b>Enclosed (Yes/No)</b>	<b>Annexure/Attachment/Page No./Envelop No. of the enclosure</b>
	Signature with Date		
	Name		
	Seal		

**Annexure-7**

**SERVICE NETWORK DETAILS IN BHUBANESWAR (With Tech. Bid)**

<b>Sl. No.</b>	<b>Service Station with Address</b>	<b>Officer-in-charge</b>	<b>No. of Service Engineers</b>	<b>Contact Phone/Mobile</b>	<b>Area Covered</b>
1					
2					
3					

**Signature with Seal**

**Annexure-8**

**STATEMENT OF TECHNICAL COMPLIANCE & DEVIATION (Tech Bid)**

<b>Item</b>					
<b>Make</b>					
<b>Model</b>					
<b>Sl. No.</b>	<b>Specifications</b>	<b>Compliance (Yes/No)</b>	<b>Deviations, if any</b>	<b>Performance Impact (PI) due to Deviation</b>	<b>PI Certified by</b>

**Signature of the Bidder with Seal**



Annexure-9

**FINANCIAL BID FORMAT (Fin Bid)**

*Amount in Rupees including the cost of Comprehensive Warranty, Support and Services for Five Years as defined in the Technical Eligibility.*

Sl. No.	Items	Quantity	Unit Cost	Pre-Tax Total Cost	Tax at current Rate	Total Cost With Tax
1						
2						
3						
4						
<b>Total Cost (In Figures)</b>						
<b>Total Cost (In Words)</b>						

Signature of Bidder with Seal

Annexure-10

**FINANCIAL BID FORMAT (Fin Bid)**

**Buyback Price Offered for the Old Servers and UPS in FITGC:**

Sl. No.	Item Details	Quantity	Price Offered
1			
2			
3			
4			
<b>Total</b>			

Signature of Bidder with Seal

**Annexure-11**

**Suggested Bid Security Format (EMD)**

Whereas.....<sup>1</sup>(Hereinafter called “the Bidder”) has submitted its bid dated..... (date of submission of bid) for the supply of.....(name and/or description of the goods) (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE.....(name of bank) of..... (name of the country), having our registered office..... at..... (address of bank) (hereinafter called “the Bank”), are found unto.....(Name of Purchaser) (Hereinafter called the “Purchaser”) in the sum of .....for which payment will 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 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, having been notified of the acceptance of its bid by the Purchase during the period of bid validity:
  - a. fails or refuses to execute the Contract Form if required; or
  - b. fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

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 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 shall remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....  
(Signature of the Bank)

---

<sup>1</sup> Name of Bidder

**Annexure-12**

**Suggested Performance Bank Guarantee Format**

**To :** \_\_\_\_\_ ( Name of Purchaser)

Whereas ..... (Name of Supplier) hereinafter called the “Supplier” has undertaken, in pursuance of Contract No..... dated ..... 20... to supply ..... (Description of Goods and Services) hereinafter called “the order”.

AND WHEREAS it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with Supplier’s performance obligations in accordance with the order.

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

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplies, 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 Supplier to be in default under the order and without cavil or argument, any sum or sums within the limit 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.

The guarantee is valid until the.....day of.....2015.....

Signature and Seal of Guarantor Bank

.....  
.....  
.....

Date.....2015.....

Address.....

.....  
.....

All correspondence with reference to this guarantee shall be made at the following address:

.....

(Name & address)

*(End of this Tender Document at this 43<sup>rd</sup> Page Only)*