

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)  
BANGALORE**

**Tender for Edge Switches for GMCC and GMF**

**Bids to be submitted online**

**Tender No.: ISTRAC/ISTRAC PURCHASE/TR202200031101 dated 30-09-2022**

## A. Tender Details

Tender No :	<b>ISTRAC/ISTRAC PURCHASE/TR202200031101</b>
Tender Date :	<b>30-09-2022</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>ISTRAC PURCHASE</b>
Centre :	<b>ISRO TELEMETRY TRACKING &amp; COMMAND NETWORK (ISTRAC)</b>

### **Supply Installation & Commissioning of Edge Switches for GMCC and GMF at ISTRAC, Blr and Sriharikota.**

Note: 1) This is a Dual Part Tender. Please submit your Offers separately for Technical and Price Bid under relevant Template. Please upload Price Bid under Price Bid only and nowhere else. If price is mentioned anywhere other than Price Bid, your offer will not be considered. 2) Please provide your compliance separately for (a) Security Deposit (b) Performance Bank Guarantee (c) Liquidated Damages and (D) SD-cum-PBG Clauses also.

#### **A.1 Tender Schedule**

Bid Submission Start Date :	<b>30-09-2022 17:00</b>
Bid Clarification Due Date :	<b>27-10-2022 17:00</b>
Bid Submission Due Date :	<b>14-11-2022 17:00</b>
Bid Opening Date :	<b>15-11-2022 10:00</b>
Price Bid Opening Date :	<b>22-11-2022 10:00</b>

## **B. Tender Attachments**

NA

### **Instructions To Vendors**

#### **1. INSTRUCTIONS TO TENDERERS FOR ONLINE SUBMISSION OF TENDERS THROUGH E-PROCUREMENT SYSTEM**

1. a) Bidders shall arrange themselves all resources, including Digital signature certificates and Internet Connections at their own cost, for participating in online tendering.
- b) Vendors can download the tender details and submit their offers online using their vendor accounts (obtained during registration) in our portal. Help demos for tender download and bidding processes are given on home page.
- c) The tender should be submitted online in the ISTRAC link before the due date and time as specified in the tender schedule in the portal.
- d) Vendors shall also take note of other Instructions to tenderers indicated in the tender documents.

#### **2. Conditions for online submission of tenders:**

- a) It is mandatory for interested parties to register as vendors in our e-procurement portal <https://eproc.vssc.gov.in/home.html> for participating in online eProcurement process of ISRO. Only registered vendors can submit their offers online in our eProcurement portal.
- b) Vendors who are already registered in the existing EGPS software of ISRO, please register by clicking the link in the email you would have already received from 'eproc@vssc.gov.in'. After registration, do the profile update by login to this portal.
- c) For new vendors, who are not registered in the existing EGPS software, vendor registration will be released along with the portal release. To register as vendors please refer to the help demos listed on the home page of the e-procurement link mentioned above. They may approach help desk (contact details provided on the home page) for any technical help for registration and subsequent process.
- d) OEM details should be added in your E-Procurement profile under Add Agent/Principal without fail.

3. ISTRAC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

#### **4. Procedure for seeking clarifications/help for the tender:**

- a) All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal.
- b) Vendors may approach help desk e-mail id and phone number given on the home page for any technical help (e-mail: [eproc@vssc.gov.in](mailto:eproc@vssc.gov.in) and Phone: +91471 2565454/4574/2527/3753/3289).

5. Queries by vendors on technical problems on the last day of tender will not be binding on ISTRAC/ISRO for resolving/addressing. ISTRAC will not be responsible for non-submission of bids for those cases.

## **2. TENDER TERMS AND CONDITIONS**

1. All information in Vendor Specified Terms shall be provided without fail to avoid unnecessary correspondence / delay in process. The same should reach before technical bid opening date and time without fail.

2. As per Rule 144(xi) of General Financial Rules, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority (i.e., Department for Promotion of Industry and Internal Trade) in line with Order (Public Procurement No. 1, 2 and 3) dated 23/07/2020 and 24/07/2020 or any amendments thereon issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance. Hence, Vendors or Agents of a Vendor (Indian or Others) from a country sharing border with India shall submit the copy of Valid Registration made with DPIIT along with the tender mandatorily, without which the offer will be treated as invalid.

3. a) Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure), Ministry of Finance Under Public procurement division for the General Financial rule (GFRs).

4. b) Class I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50%, as defined under order.

5. c) Class II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Order.

6. d) Bidders offering imported products will fall under the category of Non-local suppliers. They cannot claim themselves as Class I Local suppliers/Class II Local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

7. e) Verification of local content: i) The Class I local supplier/ Class II local supplier at the time to tender, bidding or solicitation shall be required to indicate percentage of local content and provide self certification that the item offered meets the local content requirement for Class I local supplier / Class II local supplier as the case may be. They shall also give details of the location(s) at which the local value addition is made.

8. A supplier who has been debarred by any procuring entry for violation of this order shall not be eligible for preference under this order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed.

9. Delivery Terms: FOR ISTRAC

10. GENERAL TERMS & CONDITIONS FOR BIDDERS: For this procurement, bids from Class I, class II and Non-Local Suppliers are admissible. Provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P 45021/2/2017 PP(BE II) dated 04.06.2020 and subsequent amendment & directives shall be followed. Accordingly, offer will be evaluated & processed in conformation with above referred GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and hereafter amendments:

11. If an agent submit bid on behalf of the principal/OEM, the same agent shall not submit a bid on behalf of another principal/OEM in this tender for the same item. If submitted, all offers will be liable for rejection.

12. iii) False declarations will be in breach of the code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules (GFR) for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the general Financial Rules along with such other actions as may be permissible under Law.

13. ii) In case bid value is in excess of Rs. 10 Cr., Class I local supplier/ Class II local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

14. In case the bidders propose any other payment terms in deviation with the standard terms mentioned in the tender enquiry, it may be noted that applicable cash flow implications will be loaded on the prices quoted for commercial comparison of the offers. If advance payments are insisted by the bidders, interest at the rate of MCLR (Marginal Cost Linked Rate) as notified by State Bank of India from time to time shall be loaded on the prices for price comparison.

15. In this tender either the Indian agent on behalf of the principal/OEM or the principal /OEM itself can bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorisation letter obtained from their principals/manufacturers.

16. Liquidated damages: If the vendor fails to deliver the items on or before the delivery date, or any

extension thereafter purchaser shall recover from the vendor as liquidated damages a sum of 0.5% of the contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed 10% of the contract price of the unit or units so delayed.

17. Model Certificate for Tenders: I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

18. Model Certificates for Tenders for Work involving possibility of sub contacting: I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub contracting to contracting from such countries I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub contract any work to a contract from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. Provide Compliance for the above in Vendor Specified Commercial Terms.

19. NO EMD AND TENDER FEE.

20. Performance Bank Guarantee (PBG) to be furnished as a security for fulfilment of warranty obligations by the successful vendor after satisfactory execution of purchase order/Contract (3% of the value of the purchase order/Contract). Central SUs/PSE/Autonomous bodies are exempted from the production of Performance Bank Guarantee. Instead; an indemnity bond shall be furnished in lieu of PBG.

21. Product Scope: Class I local supplier/ Class II local supplier shall offer only standard and catalogued product for Equipment / Spares Cards / assemblies. If the above offered Equipment / Cards / Assemblies are under development / to be developed the bid will not be considered.

22. PUBLICITY: No publicity of any kind whatsoever in case of PURCHASE ORDER shall be given by the Supplier without prior permission of the Purchaser.

23. SECRECY: The technical information, drawings, specifications and other related documents, forming part of the CONTRACT, are the property of the Purchaser and shall not be used for any other purpose, except for execution of the CONTRACT. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchasers consent in writing except to the extent required for the execution of this CONTRACT. These technical informations, drawings, specifications and other related documents shall be returned to the Purchaser with approved copies and duplicates, if

any, immediately after they have been used for the agreed purpose.

24. Senior Purchase and Stores Officer, ISTRAC, reserves the right to accept or reject any/or all the tenders in part or full without assigning any reasons thereof.

25. Submit the bid on or before due date.

26. Successful vendor has to submit the security deposit. (3 % of the value of the purchase order). Central PSUs/PSE/Autonomous bodies shall be exempted from the payment of security deposit, and instead, an indemnity bond shall be secured from them.

27. VENDORS HAS TO REFLECT THE POINT NO (4), (5) AND (6) IN THEIR BID.

28. TAXES: GST is payable as per applicable rates.

### **3. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER**

1. a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. ACCEPTANCE OF STORES: (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost. (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final. (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor. (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the

Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

3. ARBITRATION : All disputes, differences, claims and demands arising under or pursuant to or touching this agreement shall be referred to Arbitration of a sole Arbitrator to be appointed by the Director, ISTRAC, whose decision/award will be final and binding on both the parties. Such arbitration shall be held in Bangalore and shall be subject to and governed by the provisions of the Arbitration and Conciliation Act of 1996 or any statutory modification or re-enactment thereof. The language to be used in Arbitration is English only.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 120 days from the date of opening of the tender. b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. CUSTOMS DUTY : This office is eligible for Concessional Customs Duty @ 5.5% against Ministry of Finance, Department of Revenue, Government of India, vide Customs Notification No.51/96-Cus Dated 23-07-1996 (Sl.No.1) and amended under Notification No.93/96 dated 11th December 1996 and 24/2002 dated 01-03-2002

7. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

8. TAXES: GST is payable as per applicable rates.

9. GUARANTEE & REPLACEMENT: (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance. (b) Warranty shall be for the period mentioned in the tender document. After the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within the warranty period, by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty. (c) If, in the opinion of the purchaser, it



becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of warranty from the date of acceptance thereof. (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores. (e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of warranty or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor. (f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

10. If the IGST is applicable, the same will be reimbursed if it is reflected in Bill Of Entry. Proof shall be provided while claiming payment.

11. It is to be noted that either Customs Duty or GST is applicable ( any one)

12. JURISDICTION : The contract/ purchase order shall be governed by an interpreted and construed in accordance with the laws of India. The courts situated at Bangalore only shall have jurisdiction to deal with and decide any legal matter or dispute arising out of contract/ purchase order.

13. PACKING FORWARDING & INSURANCE: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

14. Please provide your compliance for Security Deposit, Performance Bank Guarantee and Liquidated Damages Clause.

15. PRICES: Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

16. REJECTED STORES: Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the

Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

17. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

18. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

19. SETTLEMENT OF DISPUTES : Except as otherwise specifically provided in the contract, all disputes concerning question of fact arising under the Contract shall be decided by the Purchaser subject to a written appeal by the Contractor to the Purchaser whose decision shall be final to the parties hereto. Any disputes or differences including those considered as such by only one of the parties arising out of or in connection with the Contract shall be, to the extent possible, settled amicably between the parties. If amicable settlement cannot be reached, then all disputes shall be settled by arbitration.

## 20. TERMS & CONDITIONS OF TENDER

21. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

22. The authority of the person signing the tender, if called for, should be produced.

23. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

24. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

25. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

26. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

27. The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

28. The term Purchaser shall mean the President of India or his successors or assigns.

29. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

## C. Bid Templates

### C.1 Technical Bid - Edge Switches for GMCC and GMF

1. SWITCHES:24-port EdgeSwitches withfive yearsupport (config-A) with 5 years of support
2. SWITCHES : 48-port Edge Switches(config-B) with 5 years of support
3. SWITCHES :24 Port Edge Switch (Config-C) with 5 years of support
4. SWITCHES :Extended Two year support for 24-port Edge Switches(config-A)
5. SWITCHES :Extended Two year support for 48-port Edge Switches(config-B)
6. SWITCHES :Extended Two year support for 24-port Edge Switches(config-C)

#### Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Warranty for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• On-site Comprehensive Warranty support for 5 years at ISTRAC Sites located at Bangalore and Shriharikota.</li> <li>• Warranty shall be 9x5 support NBD (Next Business Day) advance part replacement with 24x7 call logging.</li> <li>• Vendor shall note that the Switches shall be offered with initial warranty of five years and extended warranty of two years.</li> <li>• Manufacturers support package for Warranty and technical support only should be quoted. The specific part number for such support should be clearly indicated. Vendor shall not replace manufacturer's warranty with their own warranty package.</li> <li>• Warranty shall start from the date of acceptance of the full configuration.</li> <li>• OEM/Vendor to note that all for all the support deliverables no remote access will be provided to the system for troubleshooting purpose. For any unresolved issue if the system expert needs access to the hardware, they need to visit ISTRAC installation site for such access.</li> <li>• The warranty details after acceptance of the product by ISTRAC must reflect on OEM website as per warranty SLA</li> <li>• Technical Support to cover the following <ul style="list-style-type: none"> <li>o Access to technical support information for resolving problems,</li> </ul> </li> </ul>	Yes / No / Explain		
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configuration issues, utilities etc.

- o Firmware and updates.
- o Access to technical literature relating to the system
- o Onsite Technical Assurance in troubleshooting

• Global support requirement –

- o Outstation Deployment: - Few Switches shall be deployed at different ISTRAC stations and in different foreign space agencies like NASA-JPL/KSAT/SSC/ESA-ESOC stations with whom ISTRAC will have support contract agreement for the mission. The location and address and serial number of systems at each station shall be intimated to the OEM/SI in 45 days in advance for enabling the support. OEM/SI may note that around 10% of the total supplied inventory with be deployed as a part of outstation deployment. OEM shall provide NBD support to in these locations and ensure spare delivery, on-site advance part replacement within SLA time frame.

Location of ISTRAC stations: - Port Blair, Trivandrum, Mauritius, Brunei, Biak

Location of Partner stations – NASA/JPL Stations, KSAT Stations, SSC stations and ESA-ESOC stations

• Support engagement by Vendor -

- o Vendor must have a support center in

		<p>Bangalore and Chennai/ Sulurpeta for quick resolution and support call logging.</p> <ul style="list-style-type: none"><li>o Vendor shall ensure all support delivery on site and carry out replacement of faulty items, upgradation of firmware and collection logs at ISTRAC site and Bangalore and Shriharikota.</li><li>o Vendor shall identify OEM certified engineer at each location (Bangalore and Shriharikota) who shall support all on-site activities related to troubleshooting and call logging, replacements at Bangalore and Shriharikota during the warranty of the product.</li><li>o Vendor shall provide email id and phone number of Vendor support center for call logging.</li></ul>			
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2	Installation & Commissioning for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• Vendor should install &amp; commission the systems as per the configuration at ISTRAC sites in Bangalore and Shriharikota</li> <li>• System installation, commissioning is the sole responsibility of the vendor. It includes the installation of all hardware in racks, license activation, firmware upgrades, populating the transceivers all necessary device components</li> <li>• At the time of installation and commissioning of the configuration if it is found that some additional hardware accessories or software items with licenses are required to complete the configuration to meet the operational requirement of the configuration which were not included in the vendor's original list of deliverables then vendor is required to supply such items to ensure the completeness of the configuration at no extra cost to ISTRAC. Vendor should ensure completeness of the list of deliverables in the offer to avoid such discovery during installation.</li> </ul>	Yes / No / Explain		
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3	Management for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• Command-line interface</li> <li>• Out-of-band management (RJ-45 Ethernet and serial RS-232C/Micro USB)</li> <li>• SNMP Manager</li> <li>• Console cable to be included with each switch</li> <li>• The proposed switch should have enough Memory (Flash and RAM) to hold the latest Software Release. Switch should have the capability of holding multiple OS images to support resilience &amp; easy rollbacks during the version upgrades etc.</li> <li>• Switch should support for execution of script for device management for automatic and scheduled system status update for monitoring and management</li> </ul>	Yes / No / Explain		
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4	Notes to the Vendor, Applicable for all configurations	<ul style="list-style-type: none"> <li>• Vendor shall submit following certifications from OEM on OEM's letter head - <ul style="list-style-type: none"> <li>a) The vendor is authorized for participating in the bid</li> <li>b) The offered hardware is not an obsolete product</li> <li>c) The offered hardware / software component is back-to-back supported by the OEM during the warranty period</li> <li>d) The offered hardware / software component shall be supported for additional 2 years in back to back OEM warranty if ISTRAC renews the warranty after expiry of initial five years product warranty.</li> </ul> </li> <li>•Vendor shall note that part of the systems offered in the tender may be deployed outside India at ISTRAC and partner ground stations. Hence vendor shall ensure that the offered hardware qualifies the environmental, electrical and safety compliance globally so that such systems can be deployed in Europe/United States and other countries. OEM shall confirm it on OEM letter head that the offered hardware is qualified for deployment globally and shall be supported during warranty period.</li> <li>•ISTRAC shall reserve rights for opting additional warranty of 2 years during order placement. Vendor may note that the extended warranty</li> </ul>	Yes / No / Explain		
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cost (6th & 7th year warranty) will be considered for L1 computation.

- Vendor may note that it is mandatory for vendors to quote for all items. Without that the offer shall be considered incomplete.
- Cost for 6th & 7th year extended warranty, shall be paid quarterly prorate basis after the competition of five years initial warranty, if considered for ordering.
- Single purchase order shall be awarded to the L1 vendor to deliver all the products, carry out complete the installation and integration and deliver support in turnkey basis.
- All the components of the tender (Config A, Config B and Config C) shall be from a single OEM to ensure compatibility and interoperability of the products.
- System Management Device – Vendor shall deliver two windows laptops (Min. i3 11th gen, Min. 8GB RAM, Min. 256GB SSD, Min. 32GB USB drive) for system management purpose along with the deliverables.
- Vendor shall note that the quantity indicated in the slabs is indicative and ISTRAC will finalize the ordering quantity at the time of ordering. ISTRAC may choose to opt for suitable configuration and decide L1 based on the final requirement during ordering stage.
- Vendor may note that any component which

is a better / improved version of the specification may be offered. However the offered product shall be the latest or next generation hardware in the same product family as specified.

- For all items in the list of deliverables offered by the vendor, the manufacturer's part number should be clearly indicated. Offer of items without clear specification of part number is not acceptable.
- Vendor should indicate the part nos. of the deliverable items clearly. The part numbers & description of the items in the offer should match the part numbers & description of the items mentioned in the manufacturer's spec sheets.
- The part numbers & description of the goods delivered should match the part numbers & description in the offer.
- Vendor should carefully consider all the clauses in the specifications and should ensure that their offer is complete in all respects at the time of submission. Complete technical documentation justifying the compliance should be enclosed along with their offer. Offer which are incomplete are liable to be considered non-compliant.
- Specifications of the major items have been provided in the enclosed document. In case any additional accessories/ software media/licenses are required to complete the configuration for

		<p>full functionality and/or better manageability vendor should include such hardware accessories and related software elements or plug-ins to enterprise management software with licenses in their offer.</p> <ul style="list-style-type: none"> <li>•Vendor should provide technical brochure from manufacturer for all subsystems to verify the current status (i.e. when released, whether due for replacement /obsolesce) the specification of the subsystems. The technical brochure shall give the details not only for the main system but also for all the subsystems and accessories. Technical brochure shall include details of <ul style="list-style-type: none"> <li>o Functional specification.</li> <li>o Hardware &amp; software configuration.</li> <li>o Configuration options.</li> <li>o Electrical &amp; environmental specification.</li> <li>o Safety compliance details.</li> <li>o Physical dimension.</li> </ul> </li> <li>•The cost quoted by the vendor should be for delivery, installation &amp; commissioning at ISTRAC stes at Bangalore and Shriharikota.</li> </ul>			
5	Specifications for Configuration-A Switches	Specifications for Configuration-A Switches	Yes / No / Explain		

6	Physical Dimensions of each Switch of Config-A	<ul style="list-style-type: none"> <li>All the delivered hardware shall be 19 Inch Rack mountable. Required Cable management arms and brackets shall be part of deliverable.</li> <li>Switch Form Factor= Maximum 2U</li> </ul>	Yes / No / Explain		
7	<ul style="list-style-type: none"> <li>General specifications and requirements of Switch of Config-A</li> </ul>	<ul style="list-style-type: none"> <li>Switch should have dedicated slot for modular stacking, in addition to asked uplink ports.</li> <li>Or, Switch shall have 100 Gbps stacking/MLAG capability with additional ports.</li> <li>Minimum throughput available per device must be 100Gbps.</li> <li>Required stacking cable (3 Meter) shall be delivered with each switch</li> <li>Minimum Switching capacity 148 Gbps (Excluding Stacking Bandwidth)</li> <li>Minimum Throughput 110 million pps (Excluding Stacking Bandwidth)</li> <li>Offered switch shall be fully non-blocking architecture</li> <li>Offered switch should capable to support a future upgrade to 2 * 25Gbps uplink module</li> </ul>	Yes / No / Explain		
8	<ul style="list-style-type: none"> <li>Configuration of each Switch of Config-A</li> </ul>	<ul style="list-style-type: none"> <li>Each switch shall be offered with following configuration <ul style="list-style-type: none"> <li>o 1G Ethernet Port = 24 Nos</li> <li>o 1/10 Gbps SFP+ uplink ports = 4 Nos</li> </ul> </li> </ul>	Yes / No / Explain		
9	Transceivers to be loaded in each Switch of Config-A	<ul style="list-style-type: none"> <li>o 1G SFP LX (upto 10 KM) =2 Nos.</li> <li>• SFPs offered shall be of same make as switch OEM</li> </ul>	Yes / No / Explain		
10	Specifications for Configuration-B Switches	Specifications for Configuration-B Switches	Yes / No / Explain		

11	Physical Dimensions of each Switch of Config-B	<ul style="list-style-type: none"> <li>All the delivered hardware shall be 19 Inch Rack mountable. Required Cable management arms and brackets shall be part of deliverable.</li> <li>Switch Form Factor= Maximum 2U</li> </ul>	Yes / No / Explain		
12	<ul style="list-style-type: none"> <li>General specifications and requirements of Switch of Config-B</li> </ul>	<ul style="list-style-type: none"> <li>Switch should have dedicated slot for modular stacking, in addition to asked uplink ports. Or -- Switch shall have 100 Gbps stacking/MLAG capability with additional ports. Minimum throughput available per device must be 100Gbps.</li> <li>Required stacking cable (3 Meter) shall be delivered with each switch</li> <li>Minimum Switching capacity 196 Gbps (Excluding Stacking Bandwidth)</li> <li>Minimum Throughput 145.82 million pps (Excluding Stacking Bandwidth)</li> <li>Offered switch shall be fully non-blocking architecture</li> <li>Offered switch should capable to support a future upgrade to 2 * 25Gbps uplink module</li> </ul>	Yes / No / Explain		
13	<ul style="list-style-type: none"> <li>Configuration of each Switch of Config-B</li> </ul>	<ul style="list-style-type: none"> <li>1G Ethernet Port = 48 Nos</li> <li>1/10 Gbps SFP+ uplink ports = 4 Nos</li> </ul>	Yes / No / Explain		
14	Transceivers to be loaded in each Switch of Config-B	<ul style="list-style-type: none"> <li>10G (LR)SFP+ (Upto 10 KM) = 2 Nos</li> <li>1G (LX)SFP (Upto 10 KM) = 2 Nos</li> <li>SFPs offered shall be of same make as switch OEM</li> </ul>	Yes / No / Explain		
15	Specifications for Configuration-C Switches	Specifications for Configuration-C Switches	Yes / No / Explain		

16	Physical Dimensions of each Switch of Config-C	<ul style="list-style-type: none"> <li>All the delivered hardware shall be 19 Inch Rack mountable. Required Cable management arms and brackets shall be part of deliverable.</li> <li>Switch Form Factor= Maximum 2U</li> </ul>	Yes / No / Explain		
17	<ul style="list-style-type: none"> <li>General specifications and requirements of Switch of Config-C</li> </ul>	<ul style="list-style-type: none"> <li>SFPs offered shall be of same make as switch OEM</li> <li>Switch should have dedicated slot for modular stacking, in addition to asked uplink ports. Or -- Switch shall have 400 Gbps stacking/MLAG capability with additional ports. Minimum throughput available per device must be 400Gbps.</li> <li>Required stacking cable (3 Meter) shall be delivered with each switch</li> <li>Minimum Switching capacity 880 Gbps (Excluding Stacking Bandwidth)</li> <li>Minimum Throughput 654.72 million pps (Excluding Stacking Bandwidth)</li> <li>Offered switch shall be fully non-blocking architecture</li> </ul>	Yes / No / Explain		
18	<ul style="list-style-type: none"> <li>Configuration of each Switch of Config-C</li> </ul>	<ul style="list-style-type: none"> <li>o 1/10 Gbps SFP+ ports = 24.</li> <li>o 40/100 Gbps QSFP uplink ports = 2 Nos</li> </ul>	Yes / No / Explain		
19	Transceivers to be loaded in each Switch of Config-C	<ul style="list-style-type: none"> <li>o 40G (LR) QSFP+ LC (Upto 10 KM) = 2 Nos</li> <li>o 10G (LR)SFP+ (Upto 10 KM) = 4 Nos</li> <li>o 10G (SR)SFP+ = 4 Nos</li> <li>o 1G (LX)SFP (Upto 10 KM) = 4 Nos</li> <li>o 1G (SX)SFP = 4 Nos</li> <li>o 1G Copper = 6 Nos</li> <li>o 10G Copper = 4 Nos</li> <li>• SFPs offered shall be of same make as switch OEM</li> </ul>	Yes / No / Explain		



20	General Specification for all Configurations	Applicable for all configuration	Yes / No / Explain		
21	Chassis Specification for all Configurations	<ul style="list-style-type: none"> <li>• The configuration for an individual switch shall be realized using a single chassis</li> <li>• The offered chassis should not have any active data plane components in unloaded condition (bare chassis without any line cards, fabric modules and power supplies)</li> <li>• All the components like Power supply, transceivers, flash cards shall be offered from the switch manufacture only</li> </ul>	Yes / No / Explain		
22	Power & Cooling requirements for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• Switch shall be configured with Redundant hot-swappable internal power supplies</li> <li>• Switch shall be configured with Hot-swappable fan assembly</li> <li>• Power Supply: Should be offered with two internal, redundant, field-replaceable, hot-swappable AC power supplies (100 to 240 VAC, 50 to 60 Hz)</li> <li>• All the switches shall be delivered with required power cables with C13 PDU cables with suitable length (3 Ft or 5 Ft).</li> </ul>	Yes / No / Explain		

23	Reliability and Availability for all Switches in all Configurations	<ul style="list-style-type: none"> <li>•Switch shall have MTBF 300,000 Hours or better. Vendor shall provide required datasheet or OEM certification to establish MTBF of the offered hardware.</li> <li>•Components, like modules/ power supplies/ fan tray should be Hot Swappable. Online insertion and removal (OIR) support is must for modules, Power supply and FAN.</li> <li>•Switch should support for (Bidirectional Forwarding Detection) BFD for Multipoint network for fast Failure Detection as per RFC 5881 or equivalent</li> </ul>	Yes / No / Explain		
24	Specification for all Configurations	<ul style="list-style-type: none"> <li>• Trunking: -Maximum ports per trunk: 8, Maximum trunk groups: 4</li> <li>• The offered switches shall be hardware ready for SDN support</li> <li>• Support for PTP and NTP</li> <li>• Switch shall offer openflow V1.0/V1.3 or equivalent</li> </ul>	Yes / No / Explain		
25	Layer 2 Features Support for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• VLAN support and tagging</li> <li>• 802.1s Multiple Spanning Tree Protocol</li> <li>• 802.1X Authentication</li> <li>• MAC-Layer Filtering</li> <li>• Port Security - MAC Learning Disable</li> <li>• Jumbo packet support, Max Size=9000 Bytes</li> <li>• Rapid Per-VLAN Spanning Tree (RPVST+)</li> <li>• Switch shall offer minimum of 4000 VLAN</li> </ul>	Yes / No / Explain		

26	Layer-3 Features Support for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• VRF / VRF-lite</li> <li>• BGP, OSPF and IS-IS Routing</li> <li>• VRRP/VRRP-E/HSRP</li> <li>• Multicast Routing</li> <li>• Generic Routing Encapsulation (GRE)</li> <li>• Switch should support minimum 16 VRF instances with route leaking functionality</li> <li>• Switch should be able to support sub-interfaces</li> <li>• Switch should support open standards based EVPN to support VXLAN based overlay network for layer-2 (VLAN) and layer-3 (VRF) extension.</li> <li>• The Switch should support 30k IPv4 LPM (Longest Prefix Match) routes</li> <li>• Support for port mirroring on L3 network</li> <li>• Static and Dynamic NAT</li> </ul>	Yes / No / Explain		
27	IPV6 Support for all Switches in all Configurations	<p>IPV6 Support</p> <ul style="list-style-type: none"> <li>• IPv6 Routing (OSPF v3), BGP4+ (IPv6)</li> <li>• OSPF for IPv6</li> <li>• VRRP-E (IPv6)/HSRP(IPv6)/VRRPv3</li> <li>• VRF (IPv6)</li> <li>• IPv6 over IPv4 tunnels</li> <li>• Multicast Listener Discovery (MLD) version 2 snooping</li> </ul>	Yes / No / Explain		
28	Security Features for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• 802.1x Accounting</li> <li>• MAC Authentication</li> <li>• Protection against Denial of Service (DoS) attacks</li> <li>• Encryption -- Must support 128-bit Advanced Encryption Standard (AES) for SSL/Management encrypted traffic</li> <li>• ACL - Provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number</li> </ul>	Yes / No / Explain		

29	Supported Protocols and RFCs for all Switches in all Configurations	<p>Supported Protocols and RFCs</p> <ul style="list-style-type: none"> <li>• 802.1D Bridging</li> <li>• 802.1q VLAN Tagging</li> <li>• 802.1p Mapping to Priority Queue</li> <li>• 802.1w Rapid Spanning Tree (RSTP)</li> <li>• 802.3ad Link Aggregation</li> <li>• 802.3x Flow Control</li> <li>• SNMP V1, V2, V3</li> <li>• RFC 783 TFTP</li> <li>• RFC 854 Telnet</li> <li>• RFC 1757 RMON MIB</li> <li>• RFC 896 Congestion Control in IP/TCP Internetworks</li> <li>• RFC 950 Internet Standard Sub-netting Procedure</li> <li>• RFC 1191 Path MTU Discovery</li> <li>• RFC 1403 BGP OSPF Interaction</li> <li>• RFC 1519 Classless Inter-Domain Routing (CIDR):</li> <li>• RFC 1812 Requirements for IP Version 4 Routers</li> <li>• RFC 2236 Internet Group Management Protocol (IGMP) Version 2</li> <li>• RFC 1887 An Architecture for IPv6 Unicast Address Allocation</li> <li>• RFC 1981 Path MTU Discovery for IPv6</li> <li>• RFC 2374 IPv6 Aggregatable Global Unicast Address Format</li> <li>• RFC 2373 IPv6 Addressing Architecture</li> <li>• RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)</li> <li>• RFC 5308 Routing IPv6 with IS-IS</li> <li>• RFC 7348- Virtual extensible Local Area Network ( VxLAN)</li> <li>• RFC 1349 Use of OSI IS-IS for routing in TCP/IP and dual environments</li> </ul>	Yes / No / Explain		
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		<ul style="list-style-type: none"> <li>• OEM can refer to updated or equivalent RFC wherever applicable</li> </ul>			
30	Switch Management for all configurations	<p>Switch Management</p> <ul style="list-style-type: none"> <li>• Command-line interface</li> <li>• Out-of-band management (RJ-45 Ethernet and serial RS-232C/Micro USB)</li> <li>• SNMP Manager</li> <li>• Console cable to be included with each switch</li> <li>• The proposed switch should have enough Memory (Flash and RAM) to hold the latest Software Release. Switch should have the capability of holding multiple OS images to support resilience &amp; easy rollbacks during the version upgrades etc.</li> <li>• Switch should support for execution of script for device management for automatic and scheduled system status update for monitoring and management</li> </ul>	Yes / No / Explain		

31	Compliance Specific to Foreign Make Products	<p>Compliance Specific to Foreign Make Products – Foreign make products shall match the following certifications and compliances (This section is applicable only for Foreign make products) –</p> <ul style="list-style-type: none"> <li>• RoHS and WEEE</li> <li>• FCC Class A or EMC compatibility as per US and European standards</li> <li>• CE Compliant or Safety compliance as per US and European standards</li> <li>• Power supply –80 Plus Silver or better</li> <li>• Security Compliance – TPM 2.0 or Secure boot or should support image verification with OEM signed certificates</li> <li>• The offered product or IoS image must be certified with EAL2[Evaluation Assurance Level] or NIAP/CCEVS [National Information Assurance Partnership / Common Criteria Evaluation &amp; Validation Scheme].</li> </ul>	Yes / No / Explain		
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32	Compliance for Make in India product	<p>Make in India product – Make in India product shall match the following certifications and compliances (This section is applicable only for Make in India products) –</p> <ul style="list-style-type: none"> <li>• RoHS India [E-Waste (Management) Rules, 2016] certification</li> <li>Compliance to BIS norms for safety standard IS 13252:2010 or equivalent BIS standard</li> <li>• Energy Star 6.1 or equivalent – As per Bureau of Energy Efficiency, Govt of India Guideline for Computer/ Hardware</li> <li>• Security Compliance – TPM 2.0 or Secure boot or should support image verification with OEM signed certificates</li> <li>• Valid Indian Common Criteria Certification Scheme (IC3S) for EAL2 or better for the offer product or offered version of firmware</li> </ul>	Yes / No / Explain		
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33	Relaiability Requirements for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• Switch shall have MTBF 245,000 Hours or better. Vendor shall provide required datasheet or OEM certification to establish MTBF of the offered hardware.</li> <li>• Components, like modules/ power supplies/ fan tray should be Hot Swappable. Online insertion and removal (OIR) support is must for modules, Power supply and FAN.</li> <li>• Switch should support for (Bidirectional Forwarding Detection) BFD for Multipoint network for fast Failure Detection as per RFC 5881 or equivalent</li> </ul>	Yes / No / Explain		
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34	Quality Requirements for all Switches in all Configurations	<ul style="list-style-type: none"> <li>• The design and production of critical subsystems like system motherboard, controllers etc., shall be under the control of manufacturer &amp; international quality certified realization process. For make in India product the manufacturing shall follow BIS standards and other quality standards of electronics and electrical equipment as defined by Govt. of India.</li> <li>• All subsystems of the system shall have been selected to achieve optimal performance and high reliability.</li> <li>• The system architecture shall ensure maximum performance for data processing applications. The subsystems, the processor boards, the interconnections among subsystems and the software shall be properly matched to ensure maximum performance.</li> <li>• Systems shall be only from a proven product line from highly reputed manufacturers. The product line shall be an internationally established brand reputed for high quality and with wide acceptance in deployment for mission critical and business critical functions in the industry. OEM needs to confirm deployment of similar product lines in last three years in Space, Power, Banking or Aviation industry in India with the copy of the</li> </ul>	Yes / No / Explain		
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		<p>purchase order.</p> <ul style="list-style-type: none"><li>• The manufacturer of the system shall be in total control of the lifecycle (Design, release, support, obsolescence and termination of the critical subsystems like motherboard, controllers etc.) of the product.</li><li>• The offered product brands shall not be owned or stake hold by Border sharing nations of India.</li></ul>			
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## **Supporting Documents required from Vendor**

### **1. Manufacturer Authorisation Certificate**

### **2. Assurance for Back-to-Back Support from OEM for seven years**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Need to be supplied at ISTRAC-Bangalore and Shriharikota. Exact Bifercation of Qantity shall be informed at the tme of placing the purchase order.	Yes / No / Explain	
2	Payment Term: Supply: Our normal terms of payment is 100% within 30 days from the date of receipt and acceptance of the item at our site. Extd. Support: Annual Payment towards Extd. support shall be made after completion of 5 years support against submission of Invoice.	Yes / No / Explain	
3	Taxes and other costs, if any	Yes / No / Explain	
4	Delivery Period	Yes / No / Explain	
5	Delivery Term	Yes / No / Explain	
6	Security Deposit: FD or BG for 3% of PO value to be submitted after receipt of PO and valid till supply & acceptance.	Yes / No / Explain	
7	Performance Bank guarantee : BG for 3% of PO value to be submitted while claiming payment valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
8	(OR) SD-cum-Warranty (PBG) (in lieu of SD & PBG as a single instrument): BG for 3% of PO value to be submitted after receipt of PO valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	

9	<p>DELAY IN COMPLETION / LIQUIDATED DAMAGES :If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the Purchaser shall recover from the Contractor as Liquidated Damages a sum of one-half of one per cent (0.5%) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10%) of the contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.</p>	Yes / No / Explain	
10	Warranty	Yes / No / Explain	
11	Validity	Yes / No / Explain	
12	<p>Name and Address of the company on whom purchase order to be placed (OEM if any should be added in your E-Procurement profile under Add Agent/Principal without fail). Address indicated here must be available in your profile as a Principal/Agent failing which PO will be placed on the e-procurement address available in the profile.</p>	Yes / No / Explain	
13	<p>Certificate of Undertaking: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non consultancy services) or works (including turn-key projects) only if the bidder is registered with the Competent authority (i.e. DPIIT). Hence, it is mandatory to furnish Certificate of Undertaking as indicated in the tender document.</p>	Yes / No / Explain	

14	Foreign vendors are permitted to quote. 1.Class -I and Class-II Local suppliers as per make in India policy are also eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer if the quote is from Class-I or Class-II local supplier 3. Preference will be given to class-I Local Supplier and in their absence, class-II Local suppliers and in their absence Non-Local suppliers will be considered.	Yes / No / Explain	
15	Percentage of local content for the quoted item.	Yes / No / Explain	
16	Details of location (s) at which the local value addition is made	Yes / No / Explain	
17	GeM Seller ID: As per Gol OM No. 6/9/2020-PPD dated 24.08.2020 and DO No. 170/CEO-GeM/2020, sellers providing Goods and Services to Central Government Organizations shall be registered on GeM and obtain a unique GeM registered ID. Hence please get registered in GeM and furnish your GeM Seller ID.	Yes / No / Explain	
18	Any other terms	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	SWITCHES	1.0 - 50.0 Nos.		-		
		51.0 - 100.0 Nos.		-		
		101.0 - 200.0 Nos.		-		
2	SWITCHES	1.0 - 10.0 Nos.		-		
		11.0 - 30.0 Nos.		-		
		31.0 - 50.0 Nos.		-		
3	SWITCHES	1.0 - 10.0 Nos.		-		
		11.0 - 20.0 Nos.		-		

4	SWITCHES	1.0 - 50.0 Nos.		-		
		51.0 - 100.0 Nos.		-		
		101.0 - 200.0 Nos.		-		
5	SWITCHES	1.0 - 10.0 Nos.		-		
		11.0 - 30.0 Nos.		-		
		31.0 - 50.0 Nos.		-		
6	SWITCHES	1.0 - 10.0 Nos.		-		
		11.0 - 20.0 Nos.		-		

**Common charges (Applicable for all items)**

<b>P&amp;F Charges</b>	
<b>Freight Charges</b>	
<b>Installation Charges</b>	
<b>Documentation &amp; Handling Charges</b>	
<b>Other Charges (If any)</b>	