

RAILTEL CORPORATION OF INDIA LIMITED

(A Govt. of India Undertaking)

**Expression of Interest for Selection of Partner from Empanelled
Business Associate for EXCLUSIVE TEAMING
ARRANGEMENT**

For

**“Technical Empanelment Of Vendors For Supply, Installation
And Commissioning Of Networking Infrastructure (Lan, Wan &
Ups Connectivity) To Government Departments/Organizations/
Institutions/ Corporations/ Auotonomous Bodies In Goa”**

EOI No: RCIL/WR/MUMBAI/Mktg/24-25/12 dated 23rd Dec, 2024



EOI NOTICE
RailTel Corporation of India Ltd,
Western Railway Microwave Complex, Senapati Bapat Marg,
Mahalaxmi, Mumbai – 400013

EOI Notice No: RCIL/WR/MUMBAI/Mktg/24-25/12 dated 23rd Dec, 2024

RailTel Corporation of India Ltd., (here after referred to as “RailTel”) invites EOIs from RailTel’s Empanelled Partners for the Technical Empanelment Of Vendors For Supply, Installation And Commissioning Of Networking Infrastructure (Lan, Wan & Ups Connectivity) To Government Departments/Organizations/ Institutions/ Corporations/ Auotonomous Bodies In Goa as per Department Of Information Technology, Electronics And Communications (Dite&C), Government Of Goa enquiry enclosed for reference and any other addendums/ corrigendums/ documents/ amendments contained within and related to the same.

The details are as under:

1	Last date for submission of Technical Packet against EOIs by bidders	26 th Dec 2024 at 15:00 Hrs
2	Opening of Technical Bid of EOIs	26th Dec 2024 at 15:30 Hrs
3	EOI fees inclusive tax (Non-refundable)	Rs. 11,000/- (non-refundable in the form of online transfer)
4	EMD for Pre-Bid Arrangement	Total EMD: Rs. 10,00,000/- Total EMD to be paid as BG/DD/online as e-payment mode via NEFT/RTGS/netbanking

The EMD should be in the favor of RailTel Corporation of India Limited payable at Mumbai through online bank transfer/ BG/ DD. Partner needs to share the online payment transfer details like UTR No, date of payment along with the Bid and if EMD is in the form of BG/ DD then original copy of the instrument is to be submitted to RailTel Mumbai Office as per last date aforesaid ie before 26th Dec 2024 at 15:00 Hrs

RailTel Bank Details: Union Bank of India, Account No. 317801010036605, IFSC Code - UBIN0531782.

Eligible Business Associates are required to direct all communications related to this Invitation for EOI document, through the following Nominated Point of Contact persons:

1. Level 1

Contact Name: Sh. Aishwary Gargav

Designation: Deputy Manager/ Marketing

E-Mail Address: aishwary.gargav@railtelindia.com

Mobile No: +91-8780414884

2. Level 2

Contact Name: Sh. Viplov Nath Mishra

Designation: Senior Deputy General Manager/ Marketing

E-Mail Address: viplovnmishra@railtelindia.com

Mobile No: +91- 9004444124

Note:

1. Empanelled partners are required to submit soft copy of technical & price packet through an e-mail at eoι.wr@railtelindia.com duly signed by Authorized Signatories with Company seal and stamp. File size should be maximum 15 MB. A bidder can send multiple files in multiple mails in his Bid to ensure clarity of documents.
2. The EOI response is invited from eligible **Empanelled Partners of RailTel only.**
3. All the documents must be submitted with **proper indexing and page no.**
4. This is an **exclusive teaming arrangement with empanelled business associate of RailTel for participating in the end customer Tender/RFP/Enquiry.** Selected partner's authorized signatory has to give an undertaking and is deemed to have agreed that they will not submit directly or indirectly their proposals and techno-commercial solution/association with any other organization once selected in this EOI for teaming arrangement. This undertaking has to be given with this EOI Response.
5. The Empanelled partner has to also submit his empanelment LOI
6. Partner has to submit their response as an individual organization only. No consortium is allowed. The Bidder has to be an empanelled partner of RailTel.
7. **Transfer and Sub-letting.** The Business Associate has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contractor any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.
8. All Bidders to sign and stamp RailTel's EOI and its corrigendum's implying acceptance of all terms and conditions as mentioned and submit the same along with their Bids.
9. Any changes made by RailTel's end customer in Enquiry enclosed for reference upto the last date of submission of the said proposal by RailTel will be unquestionably & without any objection accommodated by the Bidders in their Technical & Price offer submitted against this EoI. Also if any changes in the end customers' requirements in future will be accommodated by the BA in the proposal if end customer asks RailTel to do the said. Changes include all the technical, financial, format changes and any other changes as applicable and deemed applicable by RailTel.



1. As Introduction about RailTel

RailTel Corporation of India Limited (RailTel), an ISO-9001:2000 organization is a Mini Ratna Government of India undertaking under the Ministry of Railways. The Corporation was formed in Sept 2000 with the objectives to create nationwide Broadband Telecom and Multimedia Network in all parts of the country, to modernize Train Control Operation and Safety System of Indian Railways and to contribute to realization of goals and objective of national telecom policy 1999. RailTel is a wholly owned subsidiary of Indian Railways.

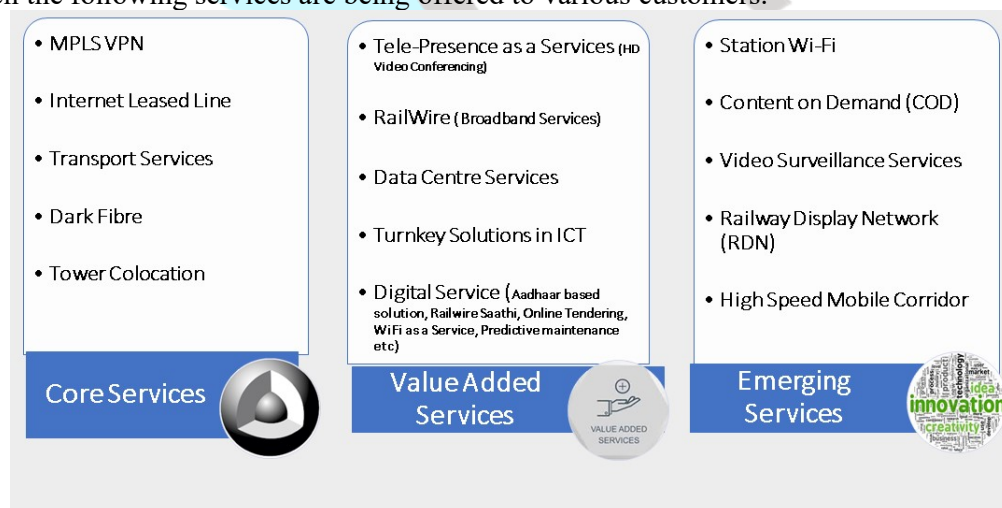
RailTel has approximately 60000 kms of OFC along the protected Railway tracks. The transport network is built on high capacity DWDM and an IP/ MPLS network over it to support mission critical communication requirements of Indian Railways and other customers. RailTel has Tier-III Data Center in Gurgaon and Secunderabad hosting / collocating critical applications. RailTel is also providing Telepresence as a Service (TPaaS), where a High-Definition Video Conference facility bundled with required BW is provided as a Service.

For ensuring efficient administration across India, country has been divided into four regions namely, Eastern, Northern, Southern & Western each headed by Executive Director and Headquartered at Kolkata, New Delhi, Secunderabad & Mumbai respectively. These regions are further divided into territories for efficient working. RailTel has territorial offices at Guwahati, & Bhubaneswar in East, Chandigarh, Jaipur, Lucknow in North, Chennai & Bangalore in South, Bhopal, and Pune & Ahmedabad in West. Various other territorial offices across the country are proposed to be created shortly.

RailTel's business service lines can be categorized into three heads namely B2G/B2B (Business to Government and Business to Business) and B2C (Business to customers):

Licenses & Service portfolio:

Presently, RailTel holds Infrastructure Provider -1, National Long-Distance Operator, International Long-Distance Operator and Internet Service Provider (Class-A) licenses under which the following services are being offered to various customers:



a) Carrier Services

- National Long Distance: Carriage of Inter & Intra -circle Voice Traffic across India using state of the art NGN based network through its Interconnection with all leading Telecom Operators
- Lease Line Services: Available for granularities from E1 to multiple of Gigabit

bandwidth&above

- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

b) Enterprise Services

- Managed Lease Line Services: Available for granularities from E1, DS-3, STM-1 & above
- MPLS VPN: Layer-2 & Layer-3 VPN available for granularities from 2 Mbps & above
- Dedicated Internet Bandwidth: Experience the "Always ON" internet connectivity at your fingertips in granularities 2 Mbps to several Gbps

c) DATA CENTER

- Infrastructure as a service (IaaS), Hosting as Services, Security operation Centre as a Service (SOCaaS): RailTel has MeitY empaneled two Tier-III data centres in Gurgaon & Secunderabad. Presently RailTel is hosting critical applications of Indian Railways, Central & State government/ PSUs applications. RailTel will facilitate Government's applications
- Hosting services including smooth transition to secured state owned RailTel's Data Centers and Disaster Recovery Centres. RailTel also offers SOC as a Service 'SOCaaS'. In addition, RailTel offers VPN client services so that employees can seamlessly access government's intranet, applications securely from anywhere without compromising security.

d) National Long Distance:

Carriage of Inter & Intra -circle Voice Traffic across India using state of the art NGN based network through its Interconnection with all leading Telecom Operators

- Lease Line Services: Available for granularities from E1 to multiple of Gigabit bandwidth&above
- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

e) High-Definition Video Conference:

RailTel has unique service model of providing high -definition video conference bundled with Video Conference equipment, bandwidth and FMS services to provide end to end seamless services on OPEX model connecting HQ with other critical offices. RailTel also offers application-based video conference solution for employees to be productive specially during this pandemic situation.

f) Retail Services – RailWire

RailWire: Triple Play Broadband Services for the Masses. RailTel has unique model of delivering broadband services, wherein local entrepreneurs are engaged in delivering & maintaining broadband services and up to 66% of the total revenues earned are shared to these local entrepreneurs in the state, generating jobs and revitalizing local economies. On date RailTel is serving approx. 4,68,000 subscribers on PAN Indian basis. RailTel can provide broadband service across– Government PSU or any organization's officers colonies and residences.

2. Project Background and Objective of EOI

RailTel intends to submit commercial quotation to its end Customer organization for 'Technical Empanelment Of Vendors For Supply, Installation And Commissioning Of Networking Infrastructure (Lan, Wan & Ups Connectivity) To Government Departments/Organizations/ Institutions/ Corporations/ Auotonomous Bodies In Goa' as per Department Of Information Technology, Electronics And Communications (Dite&C), Government Of Goa's enquiry enclosed for reference

RailTel invites EOIs from RailTel's Empanelled Partners for the selection of suitable partner for participating in above mentioned work for the agreed scope work. The empanelled partner is expected to have excellent execution capability and good understanding customer local environment.

3. Scope of Work

The scope of work will be as mentioned in the end Customer organization Tender/RFP/Enquiry for "Technical Empanelment Of Vendors For Supply, Installation And Commissioning Of Networking Infrastructure (Lan, Wan & Ups Connectivity) To Government Departments/Organizations/ Institutions/ Corporations/ Auotonomous Bodies In Goa as per Department Of Information Technology, Electronics And Communications (Dite&C), Government Of Goa enclosed for reference with latest addendums/ corrigendums/ documents/ amendments contained within and related to the same upto the last date of submission of the aforesaid proposal to end customer.

The broad scope of deliverables is provided in the referred Enquiry which is enclosed along with this EOI

In case of any discrepancy or ambiguity in any clause / specification pertaining to scope of work area, the Tender/RFP/Enquiry and corrigendum/addendum/documents released by end customer organization shall supersede and will be considered sacrosanct. (All associated clarifications, response to queries, revisions, addendum, corrigendum and documents associated prime service agreement PSA/MSA/SLA also included.)

Business associate can participate as a sole bidder only. No consortium is permitted. Bidder must be RailTel's empanelled partner and will be responsible for all the conditions mentioned in this and the end customer RFP.

Special Note: RailTel may retain some portion of the work mentioned in the end organization Tender/RFP/Enquiry, where RailTel has competence so that overall proposal becomes most winnable proposal.

4. Response to EOI guidelines

4.1 Language of Proposals

The proposal and all correspondence and documents shall be written in English in soft copy through an email.

4.2 RailTel's Right to Accept/Reject responses

RailTel reserves the right to accept or reject any response and annul the bidding process or even reject all responses at any time prior to selecting the partner, without thereby incurring any liability to the affected bidder or Business Associate or without any obligation to inform the affected bidder or bidders about the grounds for RailTel's action.

4.3 EOI response Document

The bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the bidding documents. Submission of bids, not substantially responsive to the bidding document in every aspect will be at the bidder's risk and may result in rejection of its bid without any further reference to the bidder.

All pages of the documents shall be signed by the bidder including the closing page in token of his having studied the EOI document and should be submitted along with the bid.

4.4 Period of Validity of bids and Bid Currency

Bids shall remain valid for a period of 180 days from the date of Bid submission issued by the end Customer organization for which proposal is going to be submitted.

4.5 Bid Earnest Money (EMD)

4.5.1 The Business Associate shall furnish a sum as given in EOI Notice via online transfer/ BG/ DD from any nationalized or scheduled bank excluding Co-Operative Banks in India in favour of "RailTel Corporation of India Limited" along with the offer. This will be called as EOI EMD.

4.5.2 Offers not accompanied with valid EOI Earnest Money Deposit shall be summarily rejected.

4.5.3 Return of EMD for unsuccessful Business Associates: EOI EMD of the unsuccessful Business Associate shall be returned without interest after completion of EOI process.

4.5.4 Return of EMD for successful Business Associate: EOI EMD and Integrity Pact BG of the successful bidder will be discharged / returned as promptly as possible on receipt of Security Deposit Performance Bank Guarantee as applicable (clause no. 4.6) from BusinessAssociate whichever is later.

4.5.5 Forfeiture of EOI EMD or EOI EMD and or Penal action as per EMD Declaration:

4.5.5.1 The EOI EMD may be forfeited and or penal action shall be initiated if a BusinessAssociate withdraws his offer or modifies the terms and conditions of the offer during validity period.

4.5.5.2 In case of non-submission of SD/PBG (as per clause no. 4.6) lead to forfeiture of EOI EMD if applicable and Integrity Pact and or suitable action as

prescribed in the EMD Declaration shall be initiated as applicable.

4.5.5.3 Having participated with another party/directly/through consortium apart from RailTel in RailTel's end customer Tender/RFP/Enquiry

4.6 Security Deposit / Performance Bank Guarantee (PBG)

4.6.1 In case the bid is successful, the PBG which will be back to back as per end customers PBG to RailTel calculated as per the total contract value of agreed scope will have to be submitted to RailTel.

4.6.2 As per work share arrangements agreed between RailTel and Business Associate the PBG will be proportionately decided and submitted by the selected Business Associate.

4.7 Last date & time for Submission of EOI response

EOI response must be submitted to RailTel at the email address specified in the preamble not later than the specified date and time mentioned in the preamble.

4.8 Modification and/or Withdrawal of EOI response

EOI response once submitted will be treated, as final and no modification will be permitted except with the consent of the RailTel.

No Business Associate shall be allowed to withdraw the response after the last date and time for submission.

The successful Business Associate will not be allowed to withdraw or back out from the response commitments. In case of withdrawal or back out by the successful business associate, the Earnest Money Deposit shall be forfeited, and all interests/claims of such Business Associate shall be deemed as foreclosed.

4.9 Details of Financial bid for the above referred Tender/RFP/Enquiry

Business Associate meeting eligibility criteria and lowest price will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution so that most winnable solution is submitted to end customer.

In case if there are Two or more Business Associate meeting eligibility criteria and quoting same price, then negotiation will be conducted within these Sole partner in the second stage for the given scope of the work and Sole bidder with overall lowest (L1) offer will be selected for exclusive pre bid arrangement for optimizing technical and commercial solution.

The final bid for the Tender/RFP/Enquiry will be prepared jointly with the selected Business Associate so that the optimal bid can be put with a good chance of winning the Tender/RFP/Enquiry.

Also it may be noted that RailTel may choose multiple BAs for final bidding depending upon the lowest offer received so that a winning bid can be put forth.

The BA's will have to encompass RailTel margin over all components of the Price in end customer Tender/RFP/enquiry.

Any Changes in the end customer Tender/RFP/Enquiry after the last date of submission of RailTel EoI shall be unquestionably & without any objection accommodated by the BA/BAs in their Technical & Price offer submitted against this EoI.

4.10 Clarification of EOI Response

To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the Business Associate for clarification. The response should be in writing

and no change in the price or substance of the EOI response shall be sought, offered or permitted.

4.11 Period of Association/Validity of Agreement

RailTel will enter into a pre-bid agreement with selected bidder with detailed Terms and conditions.

5. Eligibility Criteria for Bidding Business Partner of RailTel

5.1 Pre-Qualification Criteria:

Sr. No	Clause	Documents required	Compliance (YES/NO)
1	The bidder should be an established Information Technology company registered under the companies Act 1956/2013 and should have their registered office(s) in India.	1. Certificate of incorporation 2. Certificate consequent to change of name if applicable. 3. Relevant legal document confirming the acquisition/merger.	
2	The tenderer/ bidder should have executed the work of LAN, WAN, UPS installation or similar kind of networking project for the last 3 calendar years (2021-22, 2022-2023, 2023-2024)	1. Valid Copy of work order	
3	The tenderer should have reported an Average Annual Turnover of at least ₹8.0 Crores in the last 3 (three) consecutive financial years i.e., FY 2021-22, FY 2022-23 and FY 2023-24	Proof of balance sheet showing profit & loss statement /CA certificate to be uploaded.	
4	The tenderer should have a valid Service Tax Registration Certificate and PAN No.	Copy of Tax Registration Certificate Copy of Valid PAN No.	
5	The firm should have minimum 15 regular IT service employees on its pay roll. Proof to be furnished with the details like name of the person, Mobile no, educational qualifications, residential address, etc.	1. Certificate from bidders HR Department for Number of technically qualified professionals employed by the company. PT challan to be enclosed 2. Department may verify Salary slip on random basis.	
6	The authorized dealer / channel partner should furnish the copy of authorization letter issued to the bidder from the Original Equipment Manufacturer (OEM) for the quoted brand.	1. copy of the authorization letter from OEM.	

7	The bidder should neither be blacklisted/barred by any Governmental/ Non-Governmental organization as on date of inviting Tender and the same should be declared by the bidder in the undertaking, as per Annexure 3	1. Declaration in this regard by the authorized signatory of the bidder.	
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5.2 Technical Eligibility:

To technically qualify, the bidders would require a minimum score of 60% marks as per the table below:

Sr. No.	Technical Criteria	Marks	Compliance
	Total	50	
I	The company with following ISO certifications: - ISO 27001:2013 ISO /IEC 20000 - 1:2018 ISO 9001:2015 CMMI maturity level 3 (any certification shall carry 5 marks Maximum 10 marks)	10	Necessary proof to be submitted.
II	The company/firm with staff strength of IT personnel BE/ Diploma/ Masters in Engineering or equivalent (the certification has to be recognized as per AICTE guidelines) on its pay roll with ≥ 15 Engineers = 10 marks ≥ 0 Engineers < 15 Engineers = 5 marks 0 Engineers = 0 Marks	10	Necessary proof to be submitted.
III	The company having single P.O of networking project or similar scope with value equal or more than INR 20 crores 1 project of 20 Cr = 10 marks 2 projects of 15 Cr = 8 marks 3 Projects of 10 Cr = 5 marks	10	Necessary proof to be submitted.
IV	Presentation on • Company profile • Case study on previous project • Best practices followed • Execution plan/strategy/ norms followed	20	Presentation to be submitted in soft copy.

6. Bidder's Profile

The bidder shall provide the information in the below table:

S. No.	ITEM	Details
1.	Full name of bidder's firm	
2.	Full address, telephone numbers, fax numbers, and email address of the primary office of the organization / main / head / corporate office	

3.	Name, designation and full address of the Chief Executive Officer of the bidder's organization as a whole, including contact numbers and emailAddress	
4.	Full address, telephone and fax numbers, and email addresses of the office of the organization dealing with this tender	
5.	Name, designation and full address of the person dealing with the tender to whom all reference shall be made regarding the tender enquiry. His/her telephone, mobile, Fax and email address	
6.	Bank Details (Bank Branch Name, IFSC Code, Account number)	
7.	PAN, GST, TAN Registration numbers	

7. Evaluation Criteria

7.1 The Business Associates are first evaluated on the basis of the Eligibility Criteria and Technical Eligibility Criteria as per clause 5.1 and 5.2 above.

7.2 The Business Associate qualifying the Eligibility criteria and scoring above 60% marks in Technical Eligibility Criteria will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution so that most winnable solution is submitted to end customer.

7.3 In case if there are two or more Sole Bidders meeting eligibility criteria then the price bids will be sought from these Sole Bidder in the second stage for the given scope of the work and Sole Bidder with overall lowest (L1) offer will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution.

7.4 RailTel reserves the right to accept or reject the response against this EOI, without assigning any reasons. The decision of RailTel is final and binding on the participants. The RailTel evaluation committee will determine whether the proposal/ information is complete in all respects and the decision of the evaluation committee shall be final. RailTel may at its discretion assign lead factor to the Business associate as per RailTel policy for shortlisting partner against this EOI.

7.6 All General requirements mentioned in the Technical Specifications are required to be complied. The solution proposed should be robust and scalable.

8. Withdrawal of Bids

A Bidder wishing to withdraw its bid shall notify to RailTel by e-mail prior to the deadline prescribed for bid submission. The notice of withdrawal shall be addressed to RailTel at the address named in the Bid Data Sheet, and bear the Contract name, the <Title> and < Bid No.>, and the words "Bid Withdrawal Notice." Bid withdrawal notices received after the bid submission deadline will be ignored, and the submitted bid will be deemed to be a valid submitted bid.

No bid can be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period specified in the Bid Data Sheet. Withdrawal of a bid during this interval may result in the forfeiture of the Bidder's EMD.

9 Evaluation Process

The evaluation process of the bid proposed to be adopted by RailTel is indicated in this section. The purpose of this section is to provide the Bidder an idea of the evaluation process that RailTel may adopt.

RailTel shall appoint a Bid Management Committee (BMC) to scrutinize and evaluate the technical and commercial bids received. The BEC will examine the Bids to determine whether they are complete, responsive and whether the bid format conforms to the bid requirements. RailTel may waive any informality or non-conformity in a bid which does not constitute a material deviation according to RailTel.

The bid prices should not be mention in any part of the bid other than the Commercial Bid. Any attempt by a bidder to influence the bid evaluation process may result in the rejection of Bid and forfeiture of EMD.

10 Performance Bank Guarantee

The Bidder shall at his own expense, deposit with RailTel, an unconditional and irrevocable Performance Bank Guarantee (PBG) from nationalized or scheduled banks excluding Co-operative banks as per the format given in this bid, payable on demand, for the due performance and fulfilment of the contract by the Bidder.

This Performance Bank Guarantee will be submitted within 30 days of the notification of award of the contract/ Letter of Acceptance (LOA) issuance whichever is earlier. If PBG is not submitted within this time frame a delayed PBG penalty will be attracted. Post 30 days and up to 60 days from date of notification of award of the contract/ Letter of Acceptance (LOA) issuance a penalty at 15% per annum interest of LOA amount will be levied as delayed PBG penalty and this penalty will be deducted from the Invoices & EMD of the Bidder. After these 60 days if PBG is not submitted then it will be assumed that the Bidder is not interested in submitting PBG and the Amount of PBG along with the delayed PBG penalty calculated will be retained from Invoices & EMD of the Bidder. Non-submission of PBG can also lead to cancellation of contract and the decision with respect to whether, to retain the PBG Amount and penalty from Invoices & EMD or cancellation of contract, will be at the sole discretion of RailTel. In the event of cancellation of contract EMD will be forfeited. If PBG is retained from Invoices & EMD then the PBG Amount only and not the penalty attracted will be paid to the Bidder in such a case post the contract period plus three months (expected PBG validity date) are over after deducting any applicable deductions (e.g.: Poor service, etc).

This Performance Bank Guarantee will be for an amount which will be back to back as per end customers PBG to RailTel calculated as per the total contract value of agreed scope. All charges whatsoever such as premium, commission, stamp duties etc. with respect to the Performance Bank Guarantee shall be borne by the Bidder. The Performance Bank Guarantee format can be found in this document.

The Performance Bank Guarantee may be discharged/ returned by RailTel upon being satisfied that there has been due performance of the obligations of the Bidder under the contract. However, no interest shall be payable on the Performance Bank Guarantee.

In the event of the Bidder being unable to service the contract for whatever reason, RailTel would invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of RailTel under the Contract in the matter, the proceeds of the PBG shall be

payable to RailTel as compensation for any loss resulting from the Bidder's failure to complete its obligations under the Contract. RailTel shall notify the Bidder in writing of the exercise of its right to receive such compensation within 30 days, indicating the contractual obligation(s) for which the Bidder is in default.

The 30 days notice period shall be considered as the 'Cure Period' to facilitate the Implementation Agency to cure the breach. The PBG shall be invoked only if the breach is solely attributable to the bidder and the bidder fails to rectify the breach within the 'Cure Period'.

RailTel shall also be entitled to make recoveries from the Bidder's bills, performance bank guarantee, or from any other amount due to the Bidder, the equivalent value of any payment made to the Bidder due to inadvertence, error, collusion, misconstruction or misstatement.

11 Rights to Terminate the Process

RailTel may terminate the bid process at any time and without assigning any reason. RailTel makes no commitments, express or implied, that this process will result in a business transaction with anyone.

This bid document does not constitute an offer by RailTel. The Bidder's participation in this process may result in RailTel selecting the Bidder to engage in further discussions and negotiations towards execution of a contract. The commencement of such negotiations does not, however, signify a commitment by RailTel to execute a contract or to continue negotiations. RailTel may terminate negotiations at any time without assigning any reason.

12. Payment terms

- 12.1 RailTel shall make payment to selected Business Associate after receiving payment from Customer for the agreed scope of work. In case of any penalty or deduction made by customer for the portion of work to be done by BA, same shall be passed on to Business Associate.
- 12.2 All payments by RailTel to the Partner will be made after the receipt of payment by RailTel from end customer organization and upon submission of correct Tax Invoices as per statutory norms.
- 12.3 The Payments received from end customer will be disbursed Scope wise to the selected BA.
- 12.4 Payments to selected BAs will be in Arrears only

13 SLA/Penalty/LD

The selected bidder will be required to adhere to the SLA/Penalty/LD matrix as defined in the end Customer organization Tender/RFP/Enquiry for his scope of work and the SLA/Penalty/LD breach penalty will be applicable proportionately on the selected bidder, as specified in the end Customer organization Tender/RFP/Enquiry. The SLA/Penalty/LD scoring and penalty deduction mechanism for in-scope of work area shall be followed as specified in the Tender/RFP/Enquiry. All associated clarifications, responses to queries, revisions, addendum and corrigendum, associated Prime Services Agreement (PSA)/ MSA/ SLA also included. Any deduction by Customer from RailTel payments on account of SLA/Penalty/LD breach which is attributable to Partner and will be passed on to the Partner proportionately based on its scope of work.

14 Duration of the Contract Period

The contract shall remain in force for a minimum period of 1 years from the Commercial Operation Date (COD) and extendable as per end customer requirements. The effective date will be the day when the Condition Precedents are met. RailTel as per its end customer will review the performance of the Selected Bidder and may renew the engagement if any on same terms and conditions or as per revised terms laid by the end customer one year at a time or as prescribed by end customer, subject to satisfactory performance.

Note:

- 1. Depending on RailTel's business strategy RailTel may choose to work with Partner who is most likely to support in submitting a winning bid**
- 2. All Documents and requirements to be shared/executed Back to Back as per the end customer Maharashtra State Power Generation Company Limited Enquiry enclosed for reference and any other addendums/ corrigendums/ documents/ amendments contained within and related to the same**
- 3. In case of any discrepancy or ambiguity in any clause /specification pertaining to scope of work area, the Tender/RFP/Enquiry released by end customer organization shall supersede and will be considered sacrosanct. (All associated clarifications, response to queries, revisions, addendum, corrigendum & documents, associated prime service agreement (PSA)/ MSA/ SLA also included.)**
- 4. All clauses such as cost involved, payment term, validity, lock in period, etc will be back to back as per Maharashtra State Power Generation Company Limited Tender/RFP/Enquiry**
- 5. All required and related documents mandatory in RailTel's end customer Tender/RFP/Enquiry is to be arranged by Selected Bidders before RailTel's submission of proposal to end customer.**



Annexure 1: COVERING LETTER

(To be submitted by sole Bidder on Letter head)

EoI Reference No: _____ Date: _____

To
RailTel Corporation of India Ltd
Western Railway Microwave Complex
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

SUB: Participation in the EoI process

Having examined the Invitation for EoI document bearing the reference number _____ Dt. _____ released by your esteemed organization, we, undersigned, hereby acknowledge the receipt of the same and offer to participate in conformity with the said Invitation for EoI document.

If our application is accepted, we undertake to abide by all the terms and conditions mentioned in the said Invitation for EoI document.

We hereby declare that all the information and supporting documents furnished as a part of our response to the said Invitation for EoI document, are true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us, our EoI is liable to be rejected.

We hereby Submit EMD amount of Rs. _____ issued vide _____ from Bank _____.

Authorized Signatory Name:

Designation:

Contact No:

E-Mail Address:

Signature:

Seal of the Organization:

रेलटेल
RAILTEL

Annexure 2: Self-Certificate & Undertaking
(To be submitted by sole Bidder on Letter Head)

EoI Reference No: _____ Date: _____

To
RailTel Corporation of India Ltd
Western Railway Microwave Complex
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

Sub: Self Certificate for Tender, Technical, Commercial & other compliances

1. Having examined the Technical specifications mentioned in this EOI & end customer Tender/RFP/Enquiry, we hereby confirm that we meet all specification.
2. We agree to abide by all the technical, commercial & financial conditions of the end customer RFP for which EOI is submitted (except pricing, termination & risk purchase rights of the RailTel). We understand and agree that RailTel shall release the payment to selected sole partner/lead partner after the receipt of corresponding payment from end customer by RailTel. Further we understand that in case selected sole bidder fails to execute assigned portion of work, then the same shall be executed by RailTel through third party or departmentally at the risk and cost of selected sole partner bidder.
3. We agree to abide by all the technical, commercial & financial conditions of the end customer's RFP for the agreed scope of work for which this EOI is submitted.
4. We hereby agree to comply with all OEM technical & financial documentation including MAF, Technical certificates/others as per end to end requirement mentioned in the end customer's RFP. We are hereby enclosing the arrangement of OEMs against each of the BOQ item quoted as mentioned end customer's RFP. We also undertake to submit MAF and other documents required in the end Customer Organization Tender/RFP/Enquiry in favour of RailTel against the proposed products.
5. We hereby certify that any services, equipment and materials to be supplied are produced in eligible source country complying with OM/F. No. 6/18/2019 dated 23rd July 2020 issued by DoE, MoF.
6. We hereby undertake to work with RailTel as per end customer's RFP terms and conditions. We confirm to submit all the supporting documents constituting/ in compliance with the Criteria as required in the end customer's RFP terms and conditions like technical certificates, OEM compliance documents.
7. We understand and agree that RailTel is intending to select a sole bidder who is willing to accept all terms & conditions of end customer organization's RFP for the agreed scope of work. RailTel will strategies to retain scope of work where RailTel has competence.
8. We hereby agree to submit that in case of being selected by RailTel as sole bidder for the proposed project (for which EOI is submitted), we will submit all the forms, appendix, relevant documents etc. to RailTel that is required and desired by end Customer well before the bid submission date by end customer and as and when required.

9. We hereby undertake to sign Pre-Bid Agreement, Pre-Contract Integrity Pact and Non-Disclosure Agreement with RailTel on a non-judicial stamp paper of Rs. 500/- in the prescribed Format.
10. We undertake that we will not submit directly or indirectly out bids and techno-commercial solution/association with any other organization once selected in this EOI for pre-bid teaming arrangement (before and after submission of bid to end customer organization by RailTel)

Authorized Signatory Name:

Designation:

Signature:

Seal of the Organization:



Annexure 3: Undertaking for not being Blacklisted/Debarred
(To be submitted by sole bidder on Letter Head)

EoI Reference No: _____ Date: _____

To
RailTel Corporation of India Ltd
Western Railway Microwave Complex
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

Subject: Undertaking for not being Blacklisted/Debarred

We, <Company Name>, having its registered office at <Address> hereby declares that that the Company has not been blacklisted/debarred by any Governmental/ Non-Governmental organization in India for past 3 Years as on bid submission date.

Authorized Signatory Name:

Designation:

Signature:

Seal of the Organization:

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RAILTEL

Annexure 4: Format of Affidavit

(To be submitted by sole bidder)

FORMAT FOR AFFIDAVIT TO BE UPLOADED BY SOLE PARTNER ALONGWITH THE EOI DOCUMENTS

(To be executed in presence of Public notary on non-judicial stamp paper of the value of Rs. 500/-. The paper has to be in the name of the BA) **

I..... (Name and designation) * appointed as the attorney/authorized signatory of the BA (including its constituents),

M/s _____ (hereinafter called the BA) for the purpose of the EOI documents for the work of _____ as per the EOI No. _____ Dt. _____ of (RailTel Corporation of India Ltd), do hereby solemnly affirm and state on the behalf of the BA including its constituents as under:

1. I/we the BA (s), am/are signing this document after carefully reading the contents.
2. I/we the BA(s) also accept all the conditions of the EOI and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the EOI documents from RailTel website www.railtelindia.com. I/we have verified the content of the document from the website and there is no addition, no deletion or no alternation to be content of the EOI document. In case of any discrepancy noticed at any stage i.e. evaluation of EOI, execution of work or final payment of the contract, the master copy available with the RailTel Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6. I/we declare that the information and documents submitted along with the EOI by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during process for evaluation of EOI, it shall lead to forfeiture of the EOI EMD besides banning of business for five years on entire RailTel. Further, I/we (insert name of the BA) * and all my/our constituents understand that my/our constituents understand that my/our offer shall be summarily rejected.
8. I/we also understand that if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT
SEAL AND SIGNATURE OF THE BA

VERIFICATION

I/We above named EOI do hereby solemnly affirm and verify that the contents of my/our above affidavit are true and correct. Nothing has been concealed and no part of it is false.

DEPONENT

SEAL AND SIGNATURE OF THE ADVOCATE

Place:

Dated:

****The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by BA. Attestation before Magistrate/ Notary Public.**

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RAILTEL

Annexure 5: Draft Non-Disclosure Agreement

(To be submitted on a Rs. 500 Stamp Paper)

This Non-Disclosure Agreement (“Non-Disc”) is made and entered into _____ day of _____ month _____ year (effective date) by and between _____ (“Department”) and _____ (“Company”). Whereas, Department and Company have entered into an Agreement (“Agreement”) _____ effective _____ for _____ and

Whereas, each party desires to disclose to the other party certain information in oral or written form which is proprietary and confidential to the disclosing party, (“CONFIDENTIAL INFORMATION”).

NOW, THEREFORE, in consideration of the foregoing and the covenants and agreements contained herein, the parties agree as follows:

1. Definitions. As used herein:

- a. The term “Confidential Information” shall include, without limitation, all information and materials, furnished by either Party to the other in connection with citizen/users/persons/customers data, products and/or services, including information transmitted in writing, orally, visually, (e.g. video terminal display) or on magnetic or optical media, and including all proprietary information, customer and prospect lists, trade secrets, trade names or proposed trade names, methods and procedures of operation, commercial or marketing plans, licensed document know-how, ideas, concepts, designs, drawings, flow charts, diagrams, quality manuals, checklists, guidelines, processes, formulae, source code materials, specifications, programs, software packages, codes and other intellectual property relating to the disclosing party’s data, computer database, products and/or services. Results of any tests, sample surveys, analytics, data mining exercises or usages etc. carried out by the receiving party in connection with the Department’s information including citizen/users/persons/customers personal or sensitive personal information as defined under any law for the time being in force shall also be considered Confidential Information.
- b. The term, “Department” shall include the officers, employees, agents, consultants, contractors and representatives of Department.
- c. The term, “Company” shall include the directors, officers, employees, agents, consultants, contractors and representatives of Company, including its applicable affiliates and subsidiary companies.

2. Protection of Confidential Information: With respect to any Confidential Information disclosed to it or to which it has access, Company affirms that it shall:

- a. Use the Confidential Information as necessary only in connection with Project and in accordance with the terms and conditions contained herein;
- b. Maintain the Confidential Information in strict confidence and take all reasonable steps to enforce the confidentiality obligations imposed hereunder, but in no event take less care with the Confidential Information that the parties take to protect the

confidentiality of its own proprietary and confidential information and that of its clients;

- c. Not to make or retain copy of any commercial or marketing plans, citizen/users/persons/customers database, Bids developed by or originating from Department or any of the prospective clients of Department except as necessary, under prior written intimation from Department, in connection with the Project, and ensure that any such copy is immediately returned to Department even without express demand from Department to do so;
 - d. Not disclose or in any way assist or permit the disclosure of any Confidential Information to any other person or entity without the express written consent of the other party; and
 - e. Return to the other party, or destroy, at Department's discretion, any and all Confidential Information disclosed in a printed form or other permanent record, or in any other tangible form (including without limitation, all copies, notes, extracts, analyses, studies, summaries, records and reproductions thereof) immediately upon the earlier to occur of (i) expiration or termination of either party's engagement in the Project, or (ii) the request of the other party therefore.
 - f. Not to discuss with any member of public, media, press, any or any other person about the nature of arrangement entered between Department and Company or the nature of services to be provided by the Company to the Department.
3. **Onus.** Company shall have the burden of proving that any disclosure or use inconsistent with the terms and conditions hereof falls within any of the foregoing exceptions.
4. **Exceptions.** These restrictions as enumerated in section 1 of this Agreement shall not apply to any Confidential Information:
- a. Which is independently developed by Company or lawfully received from another source free of restriction and without breach of this Agreement; or
 - b. After it has become generally available to the public without breach of this Agreement by Company; or
 - c. Which at the time of disclosure to Company was known to such party free of restriction and evidenced by documentation in such party's possession; or
 - d. Which Department agrees in writing is free of such restrictions.
 - e. Which is received from a third party not subject to the obligation of confidentiality with respect to such Information;
5. **Remedies.** Company acknowledges that
- (a) any actual or threatened disclosure or use of the Confidential Information by Company would be a breach of this agreement and may cause immediate and irreparable harm to Department;
 - (b) Company affirms that damages from such disclosure or use by it may be impossible to measure accurately; and
 - (c) injury sustained by Department may be impossible to calculate and remedy fully.
- Therefore, Company acknowledges that in the event of such a breach, Department shall be entitled to specific performance by Company of Company's obligations contained in

this Agreement. In addition, Company shall indemnify Department of the actual and liquidated damages which may be demanded by Department. Moreover, Department shall be entitled to recover all costs (including reasonable attorneys' fees) which it or they may incur in connection with defending its interests and enforcement of legal rights arising due to a breach of this agreement by Company.

6. **Need to Know.** Company shall restrict disclosure of such Confidential Information to its employees and/or consultants with a need to know (and advise such employees of the obligations assumed herein), shall use the Confidential Information only for the purposes set forth in the Agreement, and shall not disclose such Confidential Information to any affiliates, subsidiaries, associates and/or third party without prior written approval of the disclosing party.
7. **Intellectual Property Rights Protection.** No license to a party, under any trademark, patent, copyright, design right, mask work protection right, or any other intellectual property right is either granted or implied by the conveying of Confidential Information to such party.
8. **No Conflict.** The parties represent and warrant that the performance of its obligations hereunder does not and shall not conflict with any other agreement or obligation of the respective parties to which they are a party or by which the respective parties are bound.
9. **Authority.** The parties represent and warrant that they have all necessary authority and power to enter into this Agreement and perform their obligations hereunder.
10. **Dispute Resolution.** If any difference or dispute arises between the Department and the Company in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement, any such dispute shall be referred appropriately to RailTel/ stakeholders/ partners/ patrons
 - a. The arbitration proceedings shall be conducted in accordance with the (Indian) Arbitration and Conciliation Act, 1996 and amendments thereof.
 - b. The place of arbitration shall be Mumbai.
 - c. The arbitrator's award shall be substantiated in writing and binding on the parties.
 - d. The proceedings of arbitration shall be conducted in English language.
 - e. The arbitration proceedings shall be completed within a period of 180 days from the date of reference of the dispute to arbitration.
11. **Governing Law.** This Agreement shall be interpreted in accordance with and governed by the substantive and procedural laws of India and the parties hereby consent to the exclusive jurisdiction of Courts and/or Forums situated at Mumbai, India only.
12. **Entire Agreement.** This Agreement constitutes the entire understanding and agreement of the parties, and supersedes all previous or contemporaneous agreement or communications, both oral and written, representations and under standings among the parties with respect to the subject matter hereof.
13. **Amendments.** No amendment, modification and/or discharge of this Agreement shall be valid or binding on the parties unless made in writing and signed on behalf of each of the parties by their respective duly authorized officers or representatives.
14. **Binding Agreement.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.
15. **Severability.** It is the intent of the parties that in case any one or more of the provisions

contained in this Agreement shall be held to be invalid or unenforceable in any respect, such provision shall be modified to the extent necessary to render it, as modified, valid and enforceable under applicable laws, and such invalidity or unenforceability shall not affect the other provisions of this Agreement.

16. Waiver. If either party should waive any breach of any provision of this Agreement, it shall not thereby be deemed to have waived any preceding or succeeding breach of the same or any other provision hereof.

17. Survival. Both parties agree that all of their obligations undertaken herein with respect to Confidential Information received pursuant to this Agreement shall survive till perpetuity even after any expiration or termination of this Agreement.

18. Non-solicitation. During the term of this Agreement and thereafter for a further period of two (2) years Company shall not solicit or attempt to solicit Department's employees and/or consultants, for the purpose of hiring/contract or to proceed to conduct operations/business similar to Department with any employee and/or consultant of the Department who has knowledge of the Confidential Information, without the prior written consent of Department. This section will survive irrespective of the fact whether there exists a commercial relationship between Company and Department.

19. Term. Subject to aforesaid section 17, this Agreement shall remain valid up to _____ years from the "effective date".

IN WITNESS HEREOF, and intending to be legally bound, the parties have executed this Agreement to make it effective from the date and year first written above.

For Department

Name:

Title:

WITNESSES:

1. _____

2. _____

For Company

Name:

Title:

WITNESSES:

1. _____

2. _____

Annexure 6: Integrity Pact

(To be submitted on Letter Head of the Bidder)

EoI Number: _____ Dated: _____

This Integrity Pact is made at on this _____ Day of _____ 2022

BETWEEN

RailTel Corporation of India Ltd (a Govt of India Enterprise under Ministry of Railways) having its registered office at Plate-A, 6th Floor, Office Block Tower-2, East Kidwai Nagar, New Delhi-110023 and Regional Office at Western Railway Microwave Complex, Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013, hereinafter referred to as “The Principal”, which expression shall unless repugnant to the meaning or contract thereof include its successors and permitted assigns

AND

<Bidder Name> having its registered office at <Bidders Registered and Branch Address (if any)> hereinafter referred to as “The Bidder/ Contractor/ Concessionaire/ Consultant” and which expression shall unless repugnant to be meaning or context thereof include its successors and permitted assigns.

Preamble

Whereas, the Principal intends to award, under laid down organizational procedure’s contract/s for

‘ _____ ,

The Principal values full compliance with all relevant laws of the land, rules of land, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and for Contractor(s)/Concessionaire(s)/Consultant(s).

And whereas to meet the purpose aforesaid, both the parties have agreed to enter into this Integrity Pact (hereafter referred to as Integrity Pact) the terms and conditions of which shall also be read as integral part and parcel of the Tender documents and contract between the parties. Now, therefore, in consideration of mutual covenants stipulated in this pact, the parties hereby agree as follows and this pact witnessed as under: -

Article – 1: Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principle: -
 - a. No employee of the Principal, personally or through family members, will in connection with the Tender for, or the execution of a contract, demand take a promise for or accept for self or third person any material or immaterial benefit which the person is not legally entitled to.

- b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - c. The Principal will exclude all known prejudiced persons from the process.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act or any other Statutory Acts or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions as per its internal laid down Rules/ Regulations.

Article – 2: Commitments of the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s)

The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principals employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission or bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not commit any offence under the relevant IPC / PC. Act and other Statutory Acts; further the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not use improperly for purposes of completion or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India. If any similarly the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) of Indian Nationality shall furnish the name and address of the foreign principle, if any. Further details as mentioned in the ‘Guidelines on Indian Agents of Foreign Suppliers’ shall be disclosed by the Bidder(s)/ Contractor(s)/ Concessionaire(s)/

Consultant(s). Further, all the payments made to the Indian Agent /Representative have to be Indian Rupees only.

- e. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract. He shall also disclose the details of services agreed upon for such payments.
- f. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- g. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not bring any outside influence through any Govt. bodies/quarters directly or indirectly on the bidding process in furtherance of his bid.
- h. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) who have signed a Integrity pact shall not approach the court while representing the matter to IEMs and shall wait for their decision in the matter.

Article – 3: Disqualification from tender process and exclusion from future contracts

- 1. If the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) before award or during execution has committed a transgression through a violation of any provision of Article- 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) from the tender process.
- 2. If the Bidder/Contractor/Concessionaire/Consultant has committed a transgression through a violation of Article-2 such as to put his reliability or credibility into question, the Principal shall be entitled to exclude including blacklist and put on holiday the Bidder/Contractor/Concessionaire/Consultant for any future tenders/contract award process. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Principal taking into consideration the full facts and circumstances of each case particularly taking into account the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder/Contractor/Concessionaire/Consultant and the amount of the damage. The exclusion will be imposed for a maximum of 1 year.
- 3. A transgression is considered to have occurred if the Principal after due consideration of the available evidence concludes that “On the basis of facts available there are no material doubts”.
- 4. The Bidder/ Contractor/Concessionaire/Consultant will its free consent and without any influence agrees and undertakes to respect and uphold the Principal’s absolute rights to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.

5. The decision of the Principal to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder/ Contractor/Concessionaire/Consultant shall be final and binding on the Bidder/ Contractor/Concessionaire/Consultant, however, the Bidder/ Contractor/ Concessionaire/ Consultant can approach IEM(s) appointed for the purpose of this Pact.
6. On occurrence of any sanctions/ disqualification etc. arising out from violation of integrity pact, Bidder/ Contractor/Concessionaire/Consultant shall not be entitled for any compensation on this account.
7. Subject to full satisfaction of the Principal, the exclusion of the Bidder/Contractor/Concessionaire/Consultant could be revoked by the Principal if the Bidder/ Contractor/Concessionaire/Consultant can prove that he has restored/recouped the damage caused by him and has installed a suitable corruption prevention system in his organization.

Article – 4: Compensation for Damages

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Article-3, the Principal shall be entitled to forfeit the Earnest Money Deposit/ Bid Security or demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security apart from any other legal right that may have accrued to the Principal.
2. In addition to above, the Principal shall be entitled to take recourse to the relevant provisions of the contract related to Termination of Contract due to Contractor/Concessionaire/Consultant's Default. In such case, the Principal shall be entitled to forfeit the Performance Bank Guarantee of the Contractor/ Concessionaire/ Consultant and/or demand and recover liquidated and all damages as per the provisions of the contract/Concession agreement against Termination.

Article – 5: Previous Transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years immediately before signing of this integrity pact with any other Company in any country conforming to the anticorruption/Transparency International (TI) approach or with any other Public Sector Enterprise/Undertaking in India or any Government Department in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action for his exclusion can be taken as mentioned under Article-3 above for transgression of Article-2 and shall be liable for compensation for damages as per Article-4 above.

Article – 6: Equal treatment of all Bidders/ Contractors/ Concessionaires/ Consultants/ Subcontractors

1. The Bidder(s)/Contractor(s)/Concessionaire(s)/Consultant(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this integrity Pact, and to submit it to the Principal before contract signing.

2. The Principal will enter into agreements with identical conditions as this one with all Bidders/Contractors/Concessionaire/Consultant and Subcontractors.
3. The Principal will disqualify from the Tender process all Bidders who do not sign this Pact violate its provisions.

Article – 7: Criminal charges against violating Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s)/ Sub-contractor(s)

If the Principal obtains knowledge of conduct of a Bidder/ Contractor/ Concessionaire/ Consultant or Subcontractor, or of an employee or a representative or an associate of a Bidder/ Contractor/ Concessionaire/ Consultant or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Article – 8: Independent External Monitor (IEM)

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval from Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, RailTel.
3. The Bidder/Contractor/Concessionaire/Consultant accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Bidder/ Contractor/ Concessionaire/ Consultant. The Bidder/ Contractor/ Concessionaire/ Consultant will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his Project documentation. The same is applicable to Subcontractors.
4. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractors(s) with confidentiality. The Monitor has also signed on 'Non-disclosure of Confidential Information' and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform CMD, RailTel and recuse himself/herself from that case.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Bidder/Contractor/ Concessionaire/Consultant. The parties offer to the Monitor the option to participate in such meetings.
6. As soon as the Monitor notices, or believes to notice any transgression as given in Article- 2, he may request the Management of the Principal to take corrective action, or to take relevant action. The monitor can in this regard submit non-*binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the CMD, RailTel within 8-10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

8. If the Monitor has reported to the CMD, RailTel, a substantiated suspicion of an offence under relevant IPC/PC Act or any other Statutory Acts, and the CMD, RailTel has not, within the reasonable time taken visible action to proceed against such offence or reported it the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word 'Monitor' would include both singular and plural.

Article – 9: Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor/Consultant 12 months after his Defect Liability Period is over or 12 months after his last payment under the contract whichever is later and for all other unsuccessful Bidders, 6 months after this Contract has been awarded (In case of BOT projects). It expires for the concessionaire 24 months after his concession period is over and for all other unsuccessful Bidders 6 months after this Contract has been awarded. Any violation of the same would entail disqualification of the bidder and exclusion from future dealings.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged determined by CMD of RailTel.

Article – 10: Other Provisions

1. This pact is subject to Indian Law, Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing.
3. If the Bidder/Contractor/Concessionaire/Consultant is a partnership or a Joint Venture partner, this pact must be signed by all partners or members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid, in this case, the parties will strive to come to an agreement to their original intentions.
5. Issue like warranty / Guarantee etc. shall be outside the purview of IEMs.
6. In the event of any contradiction between the Integrity Pact and its Annexure, the clause in Integrity Pact shall prevail.
7. Any dispute/differences arising between the parties with regard to term of this Pact, any action taken by the Principal in accordance with this Pact or interpretation thereof shall not be subject to any Arbitration.
8. The actions stipulated in the integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

In witness whereof, he parties have signed and executed this pact at the place and date first done mentioned in the presence of following witnesses: -

(For & On behalf of the (Principal)

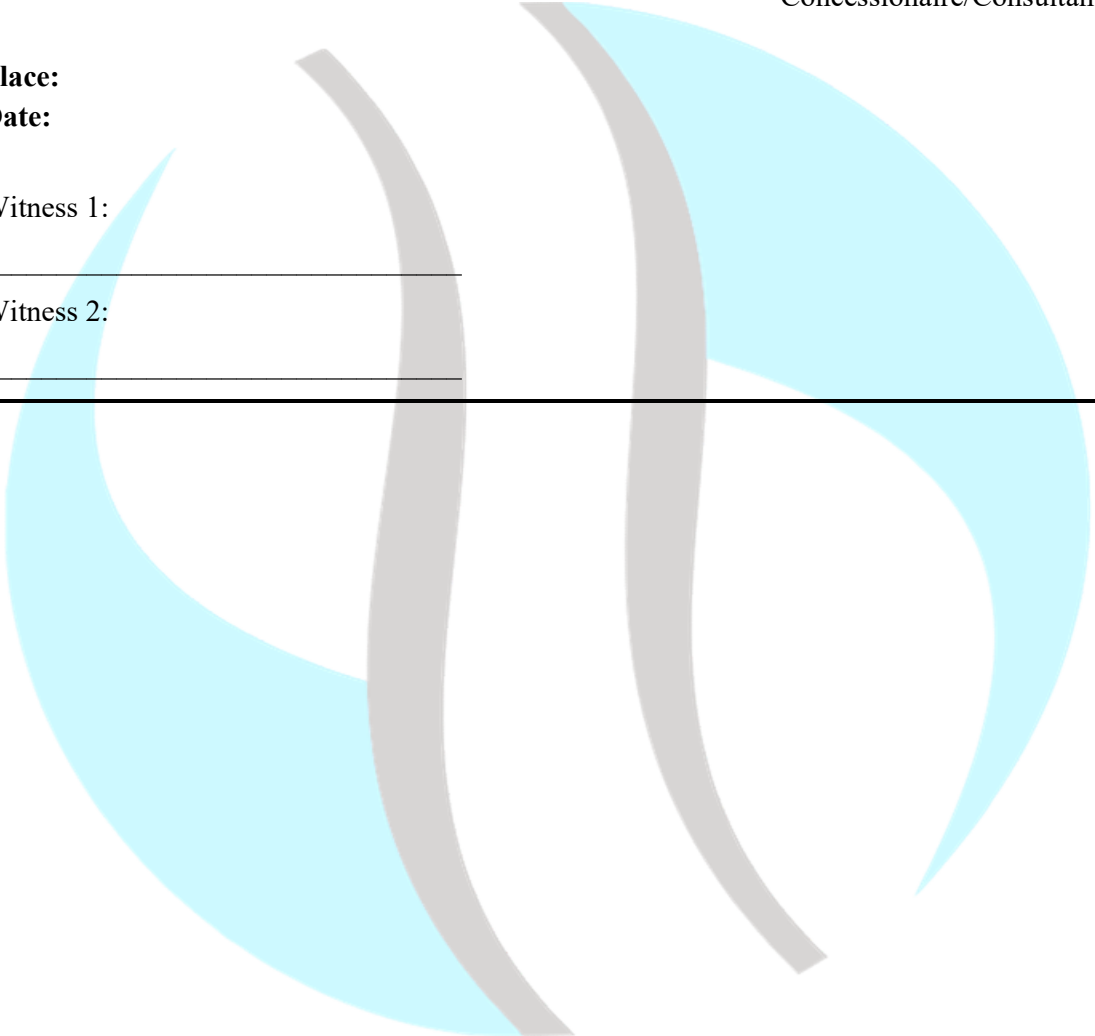
(For & On behalf of Bidder/Contractor/
Concessionaire/Consultant)

Place:

Date:

Witness 1:

Witness 2:



रेलटेल
RAILTEL

Annexure 7: Complete EoI Examination & Nil Deviation Certificate

(To be submitted by Bidder)

To
RailTel Corporation of India Ltd
Western Railway Microwave Complex
Senapati Bapat Marg, Near Railway Sports Ground
Mahalaxmi, Mumbai – 400013

Sub: Complete EoI Examination & Nil Deviation Certificate

Ref: EoI Number: _____ Dated: _____

Dear Sir,

We <Bidder Name> having completely examined the referred EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI, conclude that we have understood the Terms & Conditions of the EoI and its subsequent addendums & corrigendum (if any) and any other documents/its addendums/corrigendum referred in this EoI. We declare that we have sought all clarifications for the same from RailTel or its end customer for anything contained in this EoI & any other documents/its addendums/corrigendum referred in this EoI and have been satisfied with the clarifications to the fullest extent and there are no terms, clauses, conditions, etc which are ambiguous.

We also declare that there is no deviation from adhering to anything that is contained in this EoI and any other documents/its addendums/corrigendum referred in this EoI and that any deviation later raised by us shall lead to forfeiture of the Bid/Contract at complete discretion of RailTel.

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone and Fax :
E-mail address :

Annexure 8: Back to Back Compliance Certificate

(To be submitted by Bidder)

To
RailTel Corporation of India Ltd
Western Railway Microwave Complex
Senapati Bapat Marg, Near Railway Sports Ground
Mahalaxmi, Mumbai – 400013

Sub: Complete back to back Compliance Certificate

Ref: 1) EoI Number: _____ Dated: _____
2) Department Of Information Technology, Electronics And Communications (Dite&C)
Government Of Goa enclosed for reference and any other addendums/ corrigendums/
documents/ amendments contained within and related to the same

Dear Sir,

Considering reference 1 & 2 we would like to declare that we have read and understood the EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI thoroughly. We would like to give you our back to back compliance for all the Tender/RFP/Enquiry terms and conditions, clauses, timelines, deliverables and anything explicitly mentioned in the EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI.

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone and Fax :
E-mail address :

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Annexure 9: Performance Bank Guarantee Format

(For a sum of percentage of the value of the contract as per RailTel's end customer Letter)
(Stamp Duty to be confirmed by RailTel in co-ordination with RailTel's Legal Department)
(Final Draft to be confirmed by RailTel Legal before BG issuance)

To

RailTel Corporation of India Ltd.
Western Railway Microwave complex,
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

1. In consideration of RailTel Corporation of India Ltd (hereinafter called — RailTel) having agreed to accept from <Company Name of Bidder>(hereinafter called —the said contractor/sl), under the terms and conditions of an Agreement/Acceptance letter dated <Date> (Letter No: <LOA/LOI/PO No>) made between RailTel and <Company Name of Bidder> (hereinafter called —the said Agreementll) the Performances Guarantee for the due fulfillment by the Contractor/s of the terms and conditions in the said Agreement on production of Bank Guarantee for Rs. <Amount>/- (Rupees <Amount in Words> Only) we, <Bank Name> (thereinafter referred to as —the Bankll) at the request of <Company Name of Bidder>contractor/s do hereby undertake to pay the RailTel an amount not exceeding Rs. <Amount>/- (Rupees <Amount in Words> Only) against any loss or damage caused to or suffered by or would be caused to or suffered by RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We, <Bank Name> (indicate the name of Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from RailTel stating that the amount claimed is by way of loss or damage caused to or suffered by Railtel by reason of breach by the said contractor/s of any of the terms or conditions contained in the said agreement or by reason of the contractor/s failure to perform the Agreement , any such demand made on the bank shall be conclusive as regards the amount due and payable to the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. <Amount>/- (Rupees <Amount in Words> Only)
3. We undertake to pay to RailTel any money so demanded notwithstanding any dispute or dispute raised by the contractor/s/supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payments.
4. We <Bank Name> further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement, including Maintenance/Warrantee Period, and that it shall continue to be enforceable till the dues of RailTel under or by virtue of the said agreement have been fully paid and its claims satisfied or discharge or till <Date>. RailTel will certify

that the terms and conditions of the Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharged this guarantee, unless a demand or claim under this guarantee is made on us in writing on or before the <Date> we shall discharge from all liability under this guarantee thereafter.

5. We, <Bank Name> further agree with RailTel that RailTel shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone from any time or from time to time any of the powers exercisable by RailTel against the said contract and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, extension being granted to the contractor/s for any forbearance act or commission on the part of RailTel or indulgence by RailTel to the said contractor/s or such any matter or thing whatsoever which under the law relating to sureties would , but for this provision, have effect of so relieving us.
6. This Guarantee will not be discharge due to the change in the constitution of the bank or the Contractor(s)/Suppliers(s)
7. We, <Bank Name> undertake not to revoke this guarantee during its currency except with the previous consent of RailTel in writing.

Date this <Date> day of <Month> 2024.

For <Bank Name>



Annexure 10: Format for EMD as BG

Name of the Bank: <Bank Name>

To

RailTel Corporation of India Ltd.
Western Railway Microwave complex,
Senapati Bapat Marg, Mahalaxmi,
Mumbai – 400013

Date: <Date>

Bank Guarantee Bond No.: <BG Number>

Date: <Date>

In consideration of RailTel Corporation of India Ltd (hereinafter called — “RailTel”) having invited the bid for ‘ _____ ’ through EOI No _____ Dt. _____. We have been informed that <Company Name of Bidder> having its Office address <Address> (hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid").

WHEREAS, the Bidder is required to furnish Bid Security for the sum of Rs. <Amount>/- (Rupees <Amount in Words> Only), in the form of Bank Guarantee, according to conditions of Bid.

AND

WHEREAS, <Bank Name>, with its Branch <Bank Branch Name> having its Headquarters office at <Bank Address>, hereinafter called the Bank, acting through <Insert Name and Designation of the authorised persons of the Bank>, have, at the request of the Bidder, agreed to give guarantee for Bid Security as hereinafter contained, in favour of the Railway:

1. KNOW ALL MEN that by these present that I/We the undersigned <Insert name(s) of authorized representatives of the Bank>, being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to RailTel full amount in the sum of Rs. <Amount>/-(Rupees <Amount in Words> Only) as above stated.
2. The Bank undertakes to immediately pay on presentation of demand by RailTel any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by RailTel on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
3. The Bank shall pay the amount as demanded immediately on presentation of the demand by RailTel without any reference to the Bidder and without RailTel being required to show grounds or give reasons for its demand of the amount so demanded.

4. The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between RailTel and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by RailTel at any time.
6. This guarantee will remain valid and effective from <BG Date> till <Validity Date>. Any demand in respect of this Guarantee should reach the Bank within the validity period of Bid Security.
7. The Bank Guarantee is unconditional and irrevocable.
8. The expressions Bank and RailTel herein before used shall include their respective successors and assigns.
9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of RailTel. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.
10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details: -

IFSC CODE	UBIN0531782
BANK NAME	Union Bank of India
BRANCH NAME	Mahalaxmi
CITY NAME	MUMBAI
ADDRESS	22, Bhulabhai Desai Road, Mahalaxmi Chambers, Mahalaxmi, Mumbai – 400026
STATE	MAHARASHTRA

11. The Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s) of Bidder in favour of RailTel. The Bank, under this Guarantee, shall be deemed as Principal Debtor of RailTel.

Date <Date>

Place <Place>
signature(s)

.....

Bank's Seal and authorized

[Name in Block letters]

[Designation]

[P/Attorney] No.

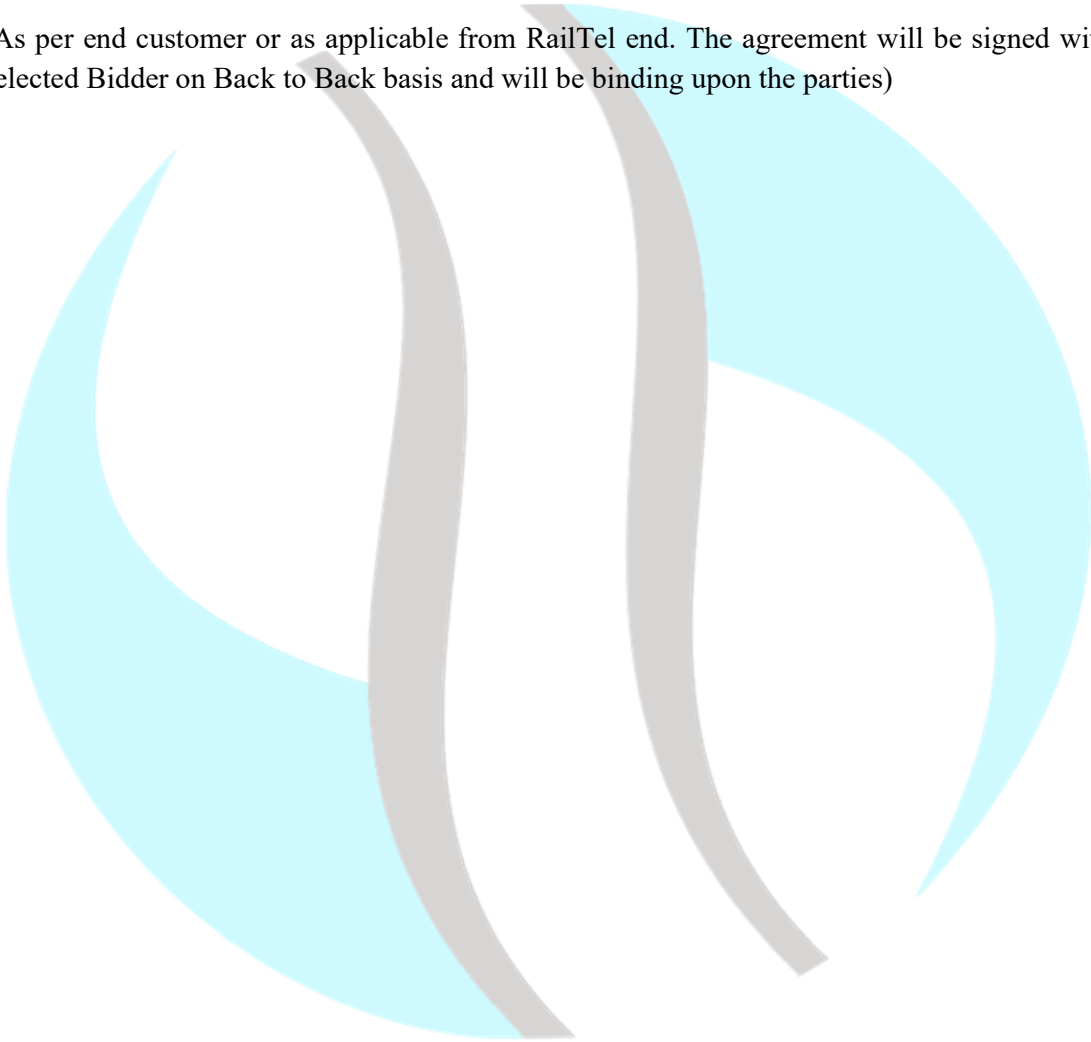
Witness:

1. Signature, Name & Address & Seal
2. Signature, Name & Address & Seal

Bank's Seal

Annexure 11: Agreement Draft Format

(As per end customer or as applicable from RailTel end. The agreement will be signed with selected Bidder on Back to Back basis and will be binding upon the parties)



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Annexure 12: Manufacturers Authorization Form

Date:

To,
RailTel Corporation of India Ltd.
Western Railway Microwave complex,
Senapati Bapat Marg, Mahalaxmi,
Mumbai – 400013

Subject: Manufacturer's Authorization Form.

EOI Reference No. :

Dear Sir/Ma'am,

We, (Name of the OEM) _____, are established and reputed manufacturers/ sellers of Networking Products ("Name of OEM") _____ Branded Products").

We (Name of OEM) _____, are having our registered office at _____ hereby authorizes M/s (Bidder Name) ("Partner"), having its registered office at (Bidder Registered Office address) to quote our _____ Branded Products in the territory of India.

The Partner intends to submit a bid to the "Customer".

If the Tender is awarded to the Partner, the Partner will subsequently bid and sign a contract, as per the agreed OEM and Delivery terms as agreed between the Partner and (Name of the OEM) _____ for the tender, for the supply to the Customer of an IT solution including Name of the OEM Branded Products.

Name of the OEM shall only provide standard OEM warranty and standard support as mentioned in tender / EOI . The Partner will be solely responsible and liable for any expansion or extensions of such warranty, support and/or associated terms and conditions.

MAF will be applicable for below quoted product only.

Sr No	OEM Name	Product details	Qty

Thanking You ,

Authorized Signatory

Annexure 13: Annexure of Items to be supplied

(Back to Back as per end customer Tender/RFP/Enquiry referred including all its amendments/ corrigendums/ clarifications/ documents)

***Please check Customer tender**





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**TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR
SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING
INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT
DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/
AUOTONOMOUS BODIES IN GOA**



**DEPARTMENT OF INFORMATION TECHNOLOGY, ELECTRONICS AND
COMMUNICATIONS (DITE&C)
GOVERNMENT OF GOA
2ND FLOOR, IT HUB,
ALTINHO, PANJIM-GOA. INDIA 403001**

Tender-No.: 10(102)/DITE&C/2023/Network Empanelment

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY,
INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN
& UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/
INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Table of Contents

I. NOTICE INVITING TENDER	5
II. CRITICAL INFORMATION	6
III. BACKGROUND	10
IV. SCOPE OF THE PROJECT	11
V. Definition and Acronyms	15
1. ELIGIBILITY CRITERIA	15
2. MODE SUBMISSION & LATE TENDERS	18
3. OPENING OF THE TENDERS AND EVALUATION THEREOF BY THE PURCHASER:	18
4. CLARIFICATION OF TENDERS:	19
5. CONTACTING THE PURCHASER:	19
6. PURCHASER'S RIGHT TO ACCEPT ANY TENDER AND TO REJECT ANY OR ALL TENDERS:	19
7. EARNEST MONEY DEPOSIT (E.M.D.)	20
8. DETAILS TO BE FURNISHED	20
9. BID VALIDITY	20
10. DURATION OF CONTRACT	21
11. AGREEMENT	21
12. TRANSITION & EXIT MANAGEMENT	22
13. PAYMENT TERMS AND CONDITIONS	24
14. OBLIGATIONS OF THE CONTRACTOR	24
15. TERMINATION FOR NON FULFILLMENT OF CONTRACT	25
16. FORCE MAJEURE	25
17. ACCEPTANCE AND WITHDRAWAL	25
18. THIRD PARY AUDIT	27
VI Evaluation Process	27
ANNEXURE-I	30
ANNEXURE-II	73
ANNEXURE-III	74
ANNEXURE-IV	82

SECTION - I
TENDER DETAILS

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

I. NOTICE INVITING TENDER

(Electronic mode only)

Tenders are invited by Department of Information Technology, Electronics and Communications (DITE&C), Government of Goa in two bids - Eligibility & Technical bid from well-established and reputed Organizations / Institutions / Agencies who fulfill the eligibility criteria and having sufficient infrastructure, manpower and proven track record in the field of computer networking, supply and maintenance of networking infrastructure to provide maintenance support for the GBBN extended connectivity and computer networking to various Government departments/institutions/organizations in the State of Goa.

This RFP document invites all the qualified bidders to submit their eligibility and technical bids for *"Technical Empanelment of vendors for supply, installation and commissioning of networking infrastructure (LAN, WAN & UPS connectivity) to Government departments/ organizations/ institutions/ corporations/ autonomous bodies in the State of Goa"*, in accordance with the conditions and manner prescribed in this Request for Proposal (RFP) document.

The bidder agencies are advised to study this RFP document carefully before submitting their proposals in response to the RFP notice. The submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

The RFP containing all the details about the programme can be obtained (downloaded) from the tender wizard site and the bidder is advised to pay the RFP cost (Document Fee) and the processing fee as mentioned in the tender document. This RFP is for the technical empanelment only. Financial bids shall be floated separately within the empaneled vendors from time to time on case to case basis depending upon the requirement.

DITE&C shall invite quotation / financial quote within the empanelled list of vendors for a particular requirement. The bidders who are empanelled by DITE&C shall submit its quote online/offline depending upon the value of the estimated work. The empaneled vendor who quotes "L1" shall submit 5% of the work order value as Performance Bank Guarantee (PBG) in the form of Bank Guarantee upon issue of work order.

The Eligibility & Technical bid will be opened / downloaded in the premises of Department of Information Technology, Electronics and Communications, IT Hub, Altinho, Panjim-Goa in the presence of bidders or their authorized representative, if any.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

II. CRITICAL INFORMATION

Sr. No.	Item	Particulars
1	Description of the work	<i>Technical Empanelment of Vendors for Supply, Installation and Commissioning of Networking Infrastructure (LAN, WAN & Ups Connectivity) to Government Departments/Organizations/ Institutions/ Corporations/ Autonomous Bodies inthe State of Goa</i>
2	Mode of Tendering	E-Tendering
3	E-Tendering Website	https://eprocure.goa.gov.in/
4	Tender Document Fee	Rs. 8000/- Rupees Eight thousand only (Non-Refundable) to be paid online through e-payment mode via NEFT/RTGS/netbanking facility with pre-printed challans available one-tendering website and directly credit the amount to ITG account as generated by challan and upload the scanned copy of NEFT/RTGS/netbanking challan along with the bid.
5	Tender Processing Fee	Rs. 3000/- Rupees Three thousand only (Non-Refundable) to be paid online through e-payment mode via NEFT/RTGS/netbanking facility with pre-printed challans available on e-tendering website and directly credit the amount to ITG account as generated by challan and upload the scanned copy of NEFT/RTGS/net banking challan along with the bid.
6	Earnest Money Deposit (E.M.D.)	An Earnest Money Deposit (E.M.D.) of Rs. 10 Lakhs (Rupees ten Lakhs) to be paid online through e-payment mode via NEFT/RTGS/netbanking facility with pre-printed challans available on e-tendering website and directly credit the amount to ITG account as generated by challan and upload the scanned copy of NEFT/RTGS/netbanking challan along with the bid. EMD in any other form will not be accepted.
7	Date and Time for request of Tender	26/11/2024 to 15/12/2024 (upto 5.00 pm)

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Document	
8	Date and Time for issue of Tender document	26/11/2024 to 15/12/2024 (upto 5.00 pm)
9	Last date for submission of written pre-bid queries for clarification	03/12/2024 (upto 5.00 pm)
10	Date of Pre-bid meeting	06/12/2024 11.00 a.m at the Department of Information Technology, Electronics & Communication, Government of Goa, 2nd Floor, IT Hub, Althino, Panjim-Goa.
11	Last Date for response to clarification	10/12/2024 (upto 06.00 pm)
12	Date and Time for Online submission of bids	16/12/2024 (upto 6.00 pm)
13	Date and Time for opening of Eligibility & Technical bids	17/12/2024 (upto 11.00 a.m)
14	Date and time for technical presentation	Will be communicated to the shortlisted bidders.
15	Contact details	Department of Information Technology, Electronics & Communication, Government of Goa, 2nd Floor, IT Hub, Althino, Panjim-Goa, 403001 Phone Nos.: +91 (832) 2221505 / 2221509 Fax No.: +91(832) 2221490 Email Id's: (1) dir-dit.goa@nic.in (2) akash.kantak@nic.in

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

		For e-Tendering assistance: Please visit Contact Us section on the e-Procurement portal https://eprocure.goa.gov.in/
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Tenders not conforming to the requirements mentioned above and as laid down in the terms and conditions or not accompanied by EMD in the form prescribed at the time of opening of the technical bid are liable to be summarily rejected. The decision of Director (IT), DITE&C for purpose of eligibility & Technical qualification / Commercial Bid shall be final and binding to all the bidders.

Please note that until the EMD is not credit to the ITG account, the bidder cannot proceed further with bidding process and his bid may be rejected.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Other Important Information related to the bid

Sr. No.	Item	Description
1	Bid Validity Period	180 days from the closing date of submission of the bid.
2	Deadline / last date for furnishing performance Bank Security	Within 30 days from the date of issue of Work Order or within 15 days from the date of signing the Agreement, whichever is earlier.
3	Performance security value (Performance Bank Guarantee)	5% of the quoted amount in the form Bank Guarantee for each work order issued.
4	Performance security validity period	For a period of 3 year.
5	Deadline / last date for signing agreement	Within 15 days of receipt of the Work Order after the Government approval

III. BACKGROUND

Government of Goa in India has made a foray into the world of hi-tech e-governance with the implementation of an end-to-end IP backbone in the state, called the Goa Broadband Network, or GBBN. This Super high speed network infrastructure will be leveraged to change the way administrativeservices are delivered to citizens, businesses and Government employees.

The GBBN has already connected State Headquarters, District headquarterwith all 11 Taluka headquarters, Village Panchayats, households andinstitutions across the State.

The goal is to provide ultra-high speed and transparent Governance systemcapable of providing better e-Governance services to the common citizens of the State. GBBN is having IP based architecture and supports voice, video and data. This is an end-to-end IP network, which carries data, phone calls as wellas video conferences on the same converged infrastructure. The network will be used for communicating between the G2G, G2B, G2C and otherGovernment departments.

The GBBN Partner M/s United Telecoms Limited (UTL) has connected 225 office building locations / termination points and 190 village Panchayats. From these termination points the connectivity was extended to approx. 1900+ Government Departments /Corporations /autonomous bodies/schools /colleges and Village Panchayats. Now there is a requirement to rectify/repair/maintain/provide new GBBN connectivity to uncovered villages of Goa State /new connectivity to schools, etc. for a period of 3 years. The bidder shall also be required to design and provide new GBBN connections, shifting of existing GBBN connectivity as per the requirement from time to time. The bidder may also be required to supply networking items as per the specifications in the tender document. Please note that this specification list of devices/items is tentative and may be updated as and when there is an upgradein a particular technology/technique. DITE&C reserves the right to amend/modify this specification list as perthe need/requirement.

IV. SCOPE OF THE PROJECT

1. General

- i. The selected empanelled vendor is required to undertake the entire scope of work. If any Services, functions, or responsibilities not specifically described in the Scope of Work are inherent, necessary or customary part of the Services or are required for proper performance or provision of the Services, they shall be deemed to be included within the scope of the work to be delivered for the charges, as if such Services, functions or responsibilities were specifically described.
- ii. The selected empanelled vendor shall be responsible for survey, planning, design, supply, installation, civil construction, end-to-end integration, and commissioning for/of newly deployed fiber with existing network as suggested by the implementing agency/TPA.
- iii. The selected empanelled vendor shall be responsible to connect all the floor wise work stations/ printer location/ Wi-Fi access point and CCTV with LAN in structured cabling system.
- iv. The selected empanelled vendor shall be responsible to provide the UPS connectivity at all the work stations / Equipment Locations.

2. Site Survey and Planning

- i. The selected empanelled vendor shall conduct the survey for identified location of Govt. Office / uncovered villages of Goa, suggested by DITE&C and finalize Bill of Quantity (BoQ). The System Integrator/empanelled vendor shall conduct an exhaustive site and route survey based on an optimal route to connect.
- ii. The selected empanelled vendor shall conduct an actual Geographic Information System (GIS)-based survey for the area under scope of work, in case required by DITE&C.
- iii. Data generated during site and route survey shall be shared with the Authority and shall be integrated with the GIS application of the Authority, in case required by DITE&C.

- iv. During the survey, the selected empanelled vendor shall consider connectivity till villages based on the optimal path for fiber layout covering maximum population en-route.
- v. A final exhaustive site survey report should be submitted including detailed BoQ for the network to be designed and implemented.

3. Network Design

- 3.1 The empanelled Vendor shall deploy and connect the office through OFC connectivity preferably through single mode fiber and Cat6 connectivity depending upon the distance and requirement.

4. OFC Implementation

- 4.1 Based on the site survey report and network design, the empanelled Vendor is required to initiate OFC implementation and comply with specifications and standards as provided by the Authority during RFP stage. The empaneled Vendor shall be:
 - i. Responsible for supply, delivery, storage, warehousing and handling of optical fiber cable along with fittings and requisite items such as HDPE PLB duct, Pre cast RCC Chambers, FDMS, Joint Enclosures, RCC Route Markers, etc.
 - ii. Responsible for supply, delivery, storage, warehousing of all accessories for fiber work like end plug, simplex plug, coupler, etc.
 - iii. The empanelled vendor wherever possible will lay the duct through trenchless Technique (HDD)/ Moiling with the depth of entry and exit pit with 165 cm and intermediate depth should be less than 3 mtr during any road crossing, water body crossing, Railway crossing or any congested area, where open trench is not possible. This should be as per the RoW guidelines of Centre/state (subject to approval of authority).
 - iv. The empaneled Vendor may lay the duct for hard strata through Open Trench Technique (subject to approval of authority) with warning tape at the depth of 165cm.
 - v. The empaneled Vendor will use excel cutting Technique during splicing except straight joint to avoid unwanted loss of fiber.

- vi. Complete implementation of all the sites along with connectivity till villages or as the locations defined in the work orders, within the stipulated timeline.
- vii. Conduct end-to-end testing of the OFC laid till villages/end points along with TPA appointed by the Authority. The empaneled Vendor should submit all the detail and information like As-Build Diagrams, HDD Graph, OTDR Traces, LSPM, Blowing detail, ROW permission and NOC from concerned Authority to TPA/ Authority during PAT/FAT.
- viii. DITE&C shall assist in getting Right of way (ROW) permissions from various authorities; the payment for retrenchment shall be paid by the empanelled vendor.
- ix. The depth for laying of the optical fiber cable can be relaxed from case to case basis by taking approval from DITE&C.

5. UPS Installation and Commissioning

- 5.1 The empanelled Vendor shall provide 2/5 /10 /20 KVA online UPS with adequate back-up and allrequired rated cable, required earth pits, earth strips, lugs, thimble, isolator etc. as per the work order issued.
- 5.2 Installation of Required Rack Enclosure (9U/12U/36U/XXU) Network racks with all required accessories as per the work order issued.

6. Electronics Installation

- 6.1 The empanelled Vendor shall supply and install network solution or electronics (Switches, Router/ Media Convertor, Firewalls, etc.) Infrastructure for the successful creation of a robust, redundant, and carrier-grade LAN/WAN network to facilitate high-speed internet andother similar network services as per the work order issued.
- 6.2 The empanelled Vendor shall provide Network and Infrastructure Elements for connectivity to local end points including horizontal installations, Racks floor

mount/ Wall mount with all accessories.for connectivity to respective GP existing network as per the work order issued.

6.3 The empanelled Vendor shall provide all supply and installation including OLT, ONT/Terminal Equipment, Hardware for OF Cable.

6.4 Adequate power back-up infrastructure shall be provided by the System Integrator subject to minimum 4 (four) hours of back-up, ensuring that the network up time is maintained as per the defined Key Performance Indicator / SLA Criteria as per the requirement.

6.5 The empaneled Vendor shall conduct acceptance testing of the electronics infrastructure created at villages. It shall also be required to comply with Specifications and Standards as provided in Annexure-I.

7. Operations and Maintenance of the LAN/WAN OFC Network

7.1 The empanelled Vendor shall maintain the network build /installed for a period of 3 years from the date of commissioning.

8. The specifications mentioned for various equipments in the tender are tentative and department has right to modify the specifications, add /remove more items in case of any requirements from case to case basis.

9. The empanelment shall be valid for a period of 3 years. DITE&C may open the empanelment for 2nd year (after completion of 1 year) to add more empanel vendors.

V. Definition and Acronyms

In this tender document and associated documentation, the following terms shall be interpreted as indicated below:

- "GoG" means Government of Goa.
- "OEM" means Original Equipment Manufacturer.
- "Bidder/Tenderer" means Person/Company who bids against this tender.
- "LAN" means Local Area Network
- "WAN" means Wide Area Network
- "Purchaser/ Authority" means Department of Information Technology, Electronics and Communication (DITE&C), Govt. of Goa.
- Empanelled Vendor – Vendor who is registered with DITE&C.
- "Contractor/Supplier" means the successful Bidder to whom tender is awarded.
- "Contract" means an undertaking signed by the Vendor against the Tender.
- "Non-responsive" means failure to furnish complete information in a given format and manner required as per the tender documents or non-submission of tender bid in given Forms/Pro-forma or not following procedure mentioned in this tender or any of required details or documents is missing or not clear or not submitted in the prescribed format or non-submission of tender fee or EMD.

1. ELIGIBILITY CRITERIA

The bidder must fulfill the following eligibility conditions and must also submit documentary evidence in support of fulfilling these conditions while submitting the Eligibility and Technical bid. The scanned copy/copies of these documents should be uploaded on the e-tendering website during submission of bids before its last date. Tenders satisfying the following eligibility conditions will only be considered for further processing. In absence of proof of following supportive document the tender will not be considered or rejected.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Sr.No	Clause	Documents required	Compliance (YES/NO)
1	The bidder should be an established Information Technology company registered under the companies Act 1956/2013 and should be have their registered office(s) in India.	1. Certificate of incorporation 2. Certificate consequent to change of name if applicable. 3. Relevant legal document confirming the acquisition /merger.	
2	The tenderer/ bidder should have executed the work of LAN, WAN, UPS installation or similar kind of networking project for the last 3 calendar years (2021-22, 2022-2023, 2023-2024)	1. Valid Copy of work order	
3	The tenderer /bidder should have made a turnover of at least 40 crores in each of the last 3 financial years or turnover of 100 crores in last three financial years combined.	Proof of balance sheet showing profit & loss statement /CA certificate to be uploaded.	
4	The tenderer should have a valid Service Tax Registration Certificate and PAN No.	1. Copy of Tax Registration Certificate 2. Copy of Valid PAN No.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

5	The firm should have minimum 45 regular IT service employees on the its pay roll. Proof to be furnished with the details like name of the person, Mobile no, educational qualifications, residential address, etc.	1. Certificate from bidders HR Department for number of technically qualified professionals employed by the company. Along with bank statement indicating the salary proof. And PF Challan of the Employees 2. Department way verify Salary slip on random basis.	
6	The authorized dealer / channel partner should furnish the copy of authorization letter issued to the bidder from the Original Equipment Manufacturer (OEM) for the quoted brand.	1. copy of the authorization letter from OEM .	
7	The bidder should neither be blacklisted/barred by GoG as on date of inviting Tender and the same should be declared by the bidder in the undertaking, as per <u>Annexure II</u>	1. Declaration in this regard by the authorized signatory of the bidder.	

2. MODE SUBMISSION & LATE TENDERS

All the tenders are to be submitted in electronic mode only. The tender wizard will not accept any tender submitted after the deadline for submission of Tenders prescribed by the Purchaser. Towards the end of the deadline time, the tender wizard server is likely to get jammed due to the heavy flow of traffic on the server. Hence, all the Tenderers / Bidders participating in the tender are requested to submit the bids well in advance before the deadline time period. The Director (IT), Department of Information Technology, Electronics& Communication, Government of Goa will not accept any responsibility for any problems arising for delay in the submission of the tender.

The Tenderer / Bidder / Partner Should Quote For All The Items Listed In The Commercial Bid at the time of opening of Financial bids.

If any bid that is opened does not contain quote/price for all the items listed, then such bid may be rejected without any consideration and the quoted prices may not be used for comparing with the other eligible/opened bids.

3. OPENING OF THE TENDERS AND EVALUATION THEREOF BY THE PURCHASER:

The purchaser shall download all the documents submitted by the tenderer / bidder and place the same in the presence of tenderer / bidder or his/her authorized representative who choose to attend. on due date. The tenderers / bidders representatives who are present shall sign an attendance register.

The Technical bid of the bidders will be opened on due date at DITE&C premises in the presence of tenderer / bidder, who may like to attend. The eligibility & technical bid of the Tender document would be evaluated and the list of technically qualified tenderers / bidders will be prepared by committee constituted by the Director (IT), DITE&C. The decision of the committee in selecting the bidder for Technical Bid will be final.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

The bidders qualifying the technical bids will be intimated about the date and time by a letter/email. The details will be displayed on the notice board of the Director(IT), DITE&C at least one (01) day in advance along-with list of those tenderers / bidders who are approved / qualified technically for the bid. Non receipt of e-mail will not be accepted for raising any dispute and it shall be the responsibility of the bidder to find the details from the web-site or the Notice Board. The Director (IT), DITE&C on the advice of the committee, reserves to himself the authority to reject any or all of the tenders received without assigning any reasons thereof and does not bind him to accept the lowest tender or to place the full order on any one of the tenderer / bidder.

DITE&C's decision on the dispute (in any way) with respect to the tender will be final.

4. CLARIFICATION OF TENDERS:

To assist in the examination, evaluation and comparison of Tenders, the Purchaser may, at its discretion ask the tenderer / bidder for the clarification and the response shall be online e-tender website, e-mail or in writing.

5. CONTACTING THE PURCHASER:

No tenderer / bidder shall try to influence the Purchaser on any matter relating to the tender, from the time of the Tender opening till the time the contract is awarded. This may result in the rejection of the tender and blacklisting the tenderer / bidder.

6. PURCHASER'S RIGHT TO ACCEPT ANY TENDER AND TO REJECT ANY OR ALL TENDERS:

The purchaser reserves the right to accept or reject any tender and to annul the tendering process and reject all tenders, at time prior to award for contract without assigning any reason whatsoever and without thereby incurring any liability to the affected tenderer(s) / bidder(s) on the ground for purchaser's action.

7. EARNEST MONEY DEPOSIT (E.M.D.)

DITE&C shall invite quotation /financial quote within/among the empaneled vendors for a particular requirements/task at Government Departments/Organizations/Institutions/Corporations/Autonomous bodies. The bidders who are empaneled within DITE&C shall submit its quote online/offline depending upon the value of the estimated work. The empaneled vendor who quotes L1 shall submit 5% of the work order value as Performance Bank Guarantee (PBG) in the form of Bank Guarantee upon issue of work order.

8. DETAILS TO BE FURNISHED

- a. All particulars must be furnished, as asked for, in the specified formats for eligibility, technical bids in the tender document.
- b. To maintain parity in rates quoted and to ensure fair comparison, the rates quoted should be inclusive of GST. Whenever there is discrepancy between words and figures, the rate indicated in words shall apply and be treated as quoted rate. DITE&C shall not provide any kind of “Forms” and/or documents which may be used to get any kind of tax concessions.
- c. The rates quoted should be kept valid for a period of 3 years from the date of tender opening.

9. BID VALIDITY

- a. The Bid validity of this tender is for 180 days.

10. DURATION OF CONTRACT

This contract shall be valid and remain in force for a period of 3 Years commencing after award and acceptance of the contract.

11. AGREEMENT

- (a) The successful bidder shall execute an Agreement, for fulfillment of the terms and conditions of the said project / contract on **Rs. 100/-** Non-Judicial Stamp Paper (or as required by law), within **15 days** from the date of supply order or after the approval of Government.
- (b) The incidental expenses of execution of Agreement, shall be borne by the successful bidder (hereinafter, the successful tenderer/bidder is referred to as the "Contractor").
- (c) The conditions stipulated in the Agreement shall be strictly adhered to and violation of any of these conditions will entail termination of the Agreement, without prejudice to the rights of the DITE&C for recovery of any consequential loss from the Contractor.
- (d) If the successful bidder fails to sign the contract or after signing the contract fails to perform any contractual obligations, his EMD mentioned above will be forfeited in favor of DITE&C and order shall be treated as cancelled. Further, the Director(IT), DITE&C reserves the right to cancel the contract or take any such action as he/she deems fit.

12. TRANSITION & EXIT MANAGEMENT

Upon completion of the contract period or upon termination of the agreement for any reasons, the successful bidder shall comply with the following:

- (a) Notify to the Government of Goa forthwith the particulars of all project assets;
- (b) Deliver forthwith actual or constructive possession of this project free and clear of all encumbrances and execute such deeds, writings and documents as may be required by the Government of Goa for fully and effectively divesting the successful bidder of all of the rights, title and interest of the successful bidder in the GBBN Project and conveying this project;
- (c) All project assets including the hardware, software, documentation and any other infrastructure shall have been renewed and cured of all defects and deficiencies as necessary so that this project is compliant with the specifications and standards set forth in the RFP, Agreement and any other amendments made during the contract period;
- (d) The successful bidder delivers relevant records and reports pertaining to this project and its design, engineering, operation, and maintenance for this work executed including all operation and maintenance records and manuals pertaining there to and complete as on the divestment date;
- (e) The bidder executes such deeds of conveyance, documents and other writings as the Government of Goa may reasonably require to convey, divest and assign all the rights, title and interest of the bidder in this contract free from all encumbrances absolutely and free of any charge or tax unto the Government of Goa or its nominee; and

- (f) The GBBN-extension bidder complies with all other requirements as may be prescribed under applicable laws to complete the divestment and assignment of all the rights, title and interest of the project, free from all encumbrances absolutely and free of any charge or tax to Government of Goa or its nominee.
- (g) Not earlier than 3 (three) months before the expiry of the contract period but not later than 30 (thirty) days before such expiry, or in the event of earlier termination of the contract, immediately upon but not later than 15 (fifteen) days from the date of issue of termination notice, the independent consultant as nominated by the State Government shall verify, in the presence of a representative of the GBBN-extension Bidder, compliance by the GBBN-extension Bidder with the Divestment Requirements to the GBBN-extension Project and, if required, cause appropriate tests to be carried out at the GBBN-extension Bidder's cost for determining the compliance therewith. If either Party finds any shortcomings in the divestment requirements, it shall notify the other of the same and the GBBN-extension Bidder shall rectify the same at its own cost.
- (h) Upon the GBBN-extension Bidder conforming to all divestment requirements and handing over actual or constructive possession of the Project to Government of Goa or a person nominated by Government of Goa in this regard, Government of Goa shall issue a certificate, which will have the effect of constituting evidence of divestment of all rights, title and lien in the project by the bidder and their vesting in project pursuant hereto. State Government shall not unreasonably withhold issue of such certificate. the divestment of all rights, title and lien in the project shall be deemed to be complete on the date when all the divestment requirements have been fulfilled or the certificate has been issued, whichever is earlier, it being expressly agreed that any defect or deficiency in any divestment requirement shall not in any manner be construed or interpreted as restricting

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

the exercise of any rights by State Government or its nominee on or in respect of the project on the footing as if all divestment requirements have been complied with by the concessionaire.

13. PAYMENT TERMS AND CONDITIONS

The payment to the selected Agency shall be processed as mentioned below.

Sr. No	Milestone for release of Payment	Percentage of payment to be released
1	After Supply and Installation and commissioning of new networking equipments / shifting / new connectivity / rectification of networking infra.	75% of the value of the work order
2	Warranty for a period of 3 years.	Remaining 25% of the work order value to be paid on half yearly basis.

14. OBLIGATIONS OF THE CONTRACTOR

In case of delay / inability of the contractor to carry out tasks mentioned in the work order, DITE&C will be at liberty to get the work carried out from any other vendor and the total expenses paid to such vendor for carrying out the work will be recoverable from the contractor (L1). In addition to the penalty to be levied for the delay.

15. TERMINATION FOR NON FULFILLMENT OF CONTRACT

- i. This contract may be terminated by either party by giving two months prior notice in writing on non-compliance of the terms and conditions mentioned herein, and in which case the charges payable DITE&C will be obliged to pay only for the actual amount for which the contractor has executed the work.

16. FORCE MAJEURE

- a) The contractor shall not be liable for any loss, damage, injury or delay which is due to fault or causes beyond the control of the contractor or Force Majeure (but subject to all other clauses of this agreement) such as acts of God, Government directions, riots, war, Civil Commotion, Sabotage, fires, lightening, floods, earthquakes, explosions or other catastrophes, epidemics, quarantine, restrictions, strikes, lockouts, and other labor troubles, embargoes, theft of materials of the contractor, or other transportation delays beyond the control of the contractor.
- b) In the circumstances mentioned above the contractor shall not be liable for any loss of profit, consequential damages or any claim or demand by the DITE&C or by any other party, even if the contractor has been advised by the DITE&C of the possibility of such damages.
- c) The damaged caused if any, either to the machines or to any other property of the Government department through negligence or otherwise, shall be at risk, cost and responsibility of the contractor or proportionate amount will be deducted towards such charges.

17. ACCEPTANCE AND WITHDRAWAL

- a) The final acceptance of the tender would entirely vest with the Director(IT), DITE&C, Government of Goa who reserves the right to accept or reject any or

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

- all the tenders without assigning any reasons whatsoever thereof and does not bind himself to accept the lowest tender. There is no obligation on the part of the Director (IT), DITE&C, Government of Goa to communicate in any way with the rejected bidders. After acceptance of the tender by DITE&C, the bidder shall have no right to withdraw his tender.
- b) Tender with incomplete information/documentation or without valid EMD is liable for rejection without any notice/intimation to the tenderer/bidder.
- c) If any information given by the Contractor / Tenderer / Bidder / Manufacturer is found to be false / fictitious, the Contractor / Tenderer / Bidder / Manufacturer will be debarred for 5 years from participating in any of the DITE&C tenders.
- d) All disputes, differences and questions whatsoever, which may arise between the Tenderer / Bidder / Contractor and the Director(IT), DITE&C, Government of Goa in any way arising out of or relating to the terms and conditions or the construction or application thereof, any clause or thing therein contained, or the rights, duties and liabilities of either party, or otherwise in connection therewith shall be referred to the sole arbitration of a person appointed by the Secretary(IT)), DITE&C, Government of Goa. There shall be no objection from the Tenderer / Bidder / Contractor to such appointment. The decision of the arbitrator in the arbitration shall be final and binding on both the parties. All such arbitration proceedings shall be subject to the provisions of the Arbitration and Conciliation Act, 1996 (Central Act 26 of 1996), or any statutory modification or re-enactment thereof and the rules made thereunder for the time being in force.
- e) In case of any dispute, the Court at Panaji, Goa, shall have the jurisdiction over the same.

18. THIRD PARY AUDIT

DITE&C shall appoint a ThirdParty Audit (TPA) Agency for monitoring the day to day activities of the work executed and for recommendation of payment. The selected bidder shall cooperate with the TPA Agency. DITE&C officials shall monitor the day to day activities till TPA is appointed.

19. SERVICE LEVEL AGREEMENT

DITE&C shall impose/define a Service Level Agreement (SLA) in the short tender whenever a tender is floated among the empanelled vendors .

VI Evaluation Process

- i. DITE&C /Tender Evaluation Committee will evaluate and compare the bids determined to be substantially responsive.

Substantially Responsive bid: A substantially responsive bid is one, which confirm to all the requirements, terms, conditions and specifications of the Request for Proposal without any material deviations. Deviations from or objections or reservations to critical provisions such as those concerning performance security, warranty, applicable Law, taxes and duties will be deemed as material deviation.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Exhibit-I

Technical Evaluation (Points Distribution)

To technically qualify, the bidders would require a minimum score of 60% marks as per below table:

Sr. No.	Technical Criteria	Marks	Compliance
	Total	50	
I	The company with following ISO certifications: - ISO 27001:2013 ISO /IEC 20000 - 1:2018 ISO 9001:2015 CMMI maturity level 3 (any certification shall carry 5 marks maximum 10 marks)	10	Necessary proof to be submitted.
II	The company/firm with staff strength of IT personnel BE/ Diploma/Masters in Engineering or equivalent (the certification has to be recognized as per AICTE guidelines) on its pay roll with	10	Necessary proof to be submitted.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	>100 Engineers= 10 marks >= 45 Engineers <=100 Engineers= 5 marks		
III	The company having single P.O of networking project or similar scope with value equal or more than INR 15 crores 1 project = 5 marks 2 projects = 8 marks 3 Projects =10 marks	10	Necessary proof to be submitted.
IV	Presentation on • Company profile • Case study on previous project • Best practices followed • Execution plan/strategy/ norms followed	20	Presentation to be submitted in soft copy.

Note: All the relevant documents required for the technical scoring should be placed in the Technical bid.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

ANNEXURE-I
SPECIFICATIONS OF ITEMS TO BE SUPPLIED:

	8 PORT GIGA L2 SMART MANAGED POE		
	Technical Specifications		Compliance
	Description		
Make:_____ (Specify)			
Model: _____(Specify)			
Sr No			
1	Wall/Desktop Mountable		
2	8 Port 10/100/1000 with PoE Managed Switch + 2 Fiber SFP ports		
3	support 2 No's 1000 Base mini GBIC/SFP tans receivers LC connector for connecting single mode fiber(LX)		
4	75W (PoE+ supported)		
5	Display Each port must have a dedicated LED status display.		
	Supported Up to 8K MAC addresses		
6	At least 20 Gbps		
7	Packet throughput 14 Mbps or more		
8	Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN		
9	HTTP/HTTPS; SSH; RADIUS; port mirroring; TFTP upgrade; DHCP client/server; Traceroot; BOOTP; SNTP; ping; syslog; Telnet client		

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

10	IEEE 802.1d Spanning tree protocol	
11	IEEE 802.1W RSTP(Rapid spanning Tree Protocol)	
12	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	
13	Support EAPS for RING	
14	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)	
15	• Up to 8 ports per group with 4 candidate ports for each (dynamic) 802.3ad link aggregation	
16	Port mirroring /span Port	
17	Support standard IP/ Extend IP / MAC IP / ARP ACL	
18	Web Management, SNMP v1/v2/v3, Telnet, Upgrade Firmware	
19	240mm x 104mm x 29mm	
20	AC Input 100-240V AC. Power Cable as per Indian Standards to be Provided	

	8 PORT GIGA L2 SMART MANAGED	
	Technical Specifications	Compliance
	Description	
Make:_____ (Specify)		
Model:_____ (Specify)		
Sr No	General Features	
1	The switch support a minimum of 8 nos. 10/100/1000 Ethernet Ports	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2	The switch support a minimum of 2 SFP Uplinks	
3	The switch support a total of 10 Ports	
4	Performance and Scalability	
5	support Full-duplex Switching bandwidth of 20 Gbps	
	support 64-Byte Packet Forwarding Rate of 14.88 Mbps	
6	support a Dual Core CPU	
7	support 32 MB of Flash memory	
8	support 128 MB of DRAM	
9	support 64 VLANs	
10	support 4096 VLAN IDs	
11	support Jumbo frames of 9216 bytes	
12	Maximum transmission unit (MTU) of 9198 bytes	
13	The switch should support 8000 Unicast MAC addresses	
14	Dimension	
15	The Switch should be 1RU	
16	The switch should support Operating temperature from 0°to 45°C	
17	The switch should support Operating relative humidity 15% to 90% noncondensing	
18	Power Supply	
19	support an auto-ranging power supply with input voltages between 100 and 240V AC	
20	-----	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

21	Standards	
22	support IEEE 802.1D Spanning Tree Protocol	
23	support IEEE 802.1p	
24	support IEEE 802.1Q Trunking	
25	support IEEE 802.1s Multiple Spanning Tree (MSTP)	
26	support IEEE 802.1w Rapid Spanning Tree (RSTP)	
27	support IEEE 802.1x	
28	support SNMP v1, v2c, and v3	
29	Layer-2 Features	
30	support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors	
31	support IEEE 802.1Q VLAN encapsulation	
32	support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically	
33	support Spanning-tree root guard to prevent other edge switches becoming the root bridge.	
34	support static routing	
35	support IGMP filtering	
36	Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance	
37	support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance	
38	The switch should support IGMP v1, v2 Snooping & Filtering	
39	support IGMP v3 Snooping	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

40	support Static Routing	
41	-----	
42	Network security features	
43	support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
44	support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.	
45	DHCP Features	
46	Shall support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.	
47	support DHCP Option 82 data Insertion	
48	support DHCP Option 82 - Configurable Remote ID and Circuit ID	

	24 port Gigabit switch additional 4 SFP ports (Layer 2)	
	Technical Specifications Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	Technical Specifications	
1	General Features	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2	The switch should support a minimum of 24 nos. 10/100/1000 Ethernet Ports	
3	The switch should support a minimum of 4 SFP Uplinks	
4	The switch should support a total of 28 Ports	
5	Performance and Scalability	
6	The switch should support Full-duplex Switching bandwidth of 56 Gbps	
7	The switch should support 64-Byte Packet Forwarding Rate of 41.67 Mbps	
8	The switch should support a Dual Core CPU	
9	The switch should support 32 MB of Flash memory	
10	The switch should support 128 MB of DRAM	
11	The switch should support 64 VLANs,4096 VLAN IDs	
12	The switch should support Jumbo frames of 9216 bytes	
13	The switch should support Maximum transmission unit (MTU) of 12K	
14	The switch should support 16000 Unicast MAC addresses	
15	Standards	
16	The switch should support IEEE 802.1D Spanning Tree Protocol,support IEEE 802.1p	
17	The switch should support IEEE 802.1s Multiple Spanning Tree (MSTP),The switch should support IEEE 802.1w Rapid Spanning Tree (RSTP)	
18	The switch should support IEEE 802.1x,should support IEEE 802.1Q Trunking	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

19	The switch should support SNMP v1, v2c, and v3	
20	Layer-2 Features	
21	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors	
22	The switch should support IEEE 802.1Q VLAN encapsulation	
23	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.	
24	The switch should support IGMP filtering	
25	The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance	
26	The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance	
27	The switch should support IGMP v1, v2 Snooping	
28	The switch should support IGMP v3 Snooping	
29	Network security features	
30	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
31	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.	
32	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

33	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
34	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.	
35	The switch should support Private VLAN or equivalent	
36	DHCP Features	
37	The switch should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.	
38	The switch should support DHCP Option 82 data Insertion	
39	The switch should support DHCP Option 82 - Configurable Remote ID and Circuit ID	

	24 PORT MANAGED L3 POE GIGA SWITCH	
	Technical Specifications	Compliance
Sr No	Description	
Make:_____ (Specify)		
Model:_____ (Specify)		
1	The switch should support a minimum of 20 nos. 10/100/1000 Ethernet Ports	
2	The switch should support a minimum of 4 Combo (GT/SFP) Uplinks.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

3	The switch should support a minimum of 4 SFP+ Uplinks.	
4	Performance and Scalability	
5	The switch should support Full-duplex Switching bandwidth of 128 Gbps	
6	The switch should support 64-Byte Packet Forwarding Rate of 95 Mbps	
7	The switch should support 32MB SPI + 128MB NAND of Flash memory	
8	The switch should support 512 MB of DRAM	
9	The switch should support 64 VLANs	
10	The switch should support 4096 VLAN IDs	
11	The switch should support Jumbo frames of 9216 bytes	
12	The switch should support Maximum transmission unit (MTU) of 10K	
13	Stacking	
14	The Switch architecture should be able to stack 4 switches together with virtual stacking	
15	Power Supply	
16	The switch should support an auto-ranging power supply with input voltages between 100 and 240V AC.	
17	Power over Ethernet Budget 370W	
18	All ports should support IEEE802.3af & IEEE802.3at	
19	Standards	
20	The switch should support IEEE 802.1D Spanning Tree Protocol	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

21	The switch should support IEEE 802.1p	
22	The switch should support IEEE 802.1Q Trunking	
23	The switch should support IEEE 802.1s Multiple Spanning Tree (MSTP)	
24	The switch should support IEEE 802.1w Rapid Spanning Tree (RSTP)	
25	The switch should support IEEE 802.1x	
26	The switch should support SNMP v1, v2c, and v3	
27	Layer-2 Features	
28	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.	
29	The switch should support IEEE 802.1Q VLAN encapsulation.	
30	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.	
31	The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance	
32	The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance	
33	The switch should support Auto-negotiation on all ports to automatically selects half- or full- duplex transmission mode to optimize bandwidth	
34	The switch should support IGMP v1, v2 Snooping	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

35	The switch should support IGMP v3 Snooping Multicasting	
36	The switch should support IGMP v1, v2 Filtering	
37	Layer-3 Features	
38	The switch should support Static Routing, RIPv1/v2, OSPFv2, BGP4, OSPFv3, BGP4+	
39	The switch should support LPM Routing	
40	The switch should support Policy-based Routing(PBR) for IPv4 and Ipv6	
41	The switch should support VRRP, URPF, ECMP, BFD, IGMP v1/v2/v3, IGMP Proxy	
42	Network security features	
43	DHCP Features	
44	The switch should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.	
45	The switch should support DHCP Option 82 data Insertion	
46	The switch should support DHCP Server/Client for IPv4/IPv6	

24 port Gigabit stackable switch with additional 4SFP+ ports (Layer 3)		
Sr No	Technical Specifications	
Sr No	Description	Compliance
Make:_____ (Specify)		

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Model:_____ (Specify)		
Sr No	Technical Specifications	
1	General Features	
2	The switch should support a minimum of 20 nos. 10/100/1000 Ethernet Ports	
3	The switch should support a minimum of 4 Combo (GT/SFP) Uplinks.	
4	The switch should support a minimum of 4 SFP+ Uplinks.	
5	Performance and Scalability	
6	The switch should support Full-duplex Switching bandwidth of 128 Gbps	
7	The switch should support 64-Byte Packet Forwarding Rate of 95 Mbps	
8	The switch should support 32MB SPI + 128MB NAND of Flash memory	
9	The switch should support 512 MB of DRAM	
10	The switch should support 64 VLANs	
11	The switch should support 4096 VLAN IDs	
12	The switch should support Jumbo frames of 9216 bytes	
13	The switch should support Maximum transmission unit (MTU) of 10K	
14	The switch should support 16000 Unicast MAC addresses	
15	Stacking	
16	The Switch architecture should be able to stack 4 switches	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	together with virtual stacking	
17	The Switch stack should be based on Distributed forwarding Architecture, where in each stack member forwards its own information on network.	
18	The Switch should support Stateful Switchover (SSO) when switching over from Active to Standby switch in a Stack.	
19	The Switch stacking should support 20 Gbps of throughput.	
20	The Switch stacking should support single IP address management for the group of switches.	
21	Power Supply	
22	The switch should support an auto-ranging power supply with input voltages between 100 and 240V AC.	
23	Power over Ethernet Budget 370W	
24	All ports should support IEEE802.3af & IEEE802.3at	
25	Standards	
26	The switch should support IEEE 802.1D Spanning Tree Protocol, support IEEE 802.1p	
27	The switch should support IEEE 802.1w Rapid Spanning Tree (RSTP), support IEEE 802.1x	
28	The switch should support SNMP v1, v2c, and v3	
29	Layer-2 Features	
30	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

31	The switch should support IEEE 802.1Q VLAN encapsulation.	
32	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.	
33	The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance	
34	The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance	
35	The switch should support Auto-negotiation on all ports to automatically selects half- or full- duplex transmission mode to optimize bandwidth	
36	The switch should support IGMP v1, v2 Snooping, IGMP v3 Snooping Multicasting, IGMP v1, v2 Filtering	
37	Layer-3 Features	
38	The switch should support Static Routing, RIPv1/v2, OSPFv2, BGP4, OSPFv3, BGP4+	
39	The switch should support LPM Routing, The switch should support Policy-based Routing(PBR)	
40	IPv4 and Ipv6	
41	The switch should support VRRP, URPF, ECMP, BFD, IGMP v1/v2/v3, IGMP Proxy	
42	The switch should Static Multicast Route, Multicast Receive Control, Illegal Multicast Source Detect	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

43	The switch should support ARP Guard, Local ARP proxy, Proxy, ARP, ARP Binding, Gratuitous ARP, ARP Limit	
44	Network security features	
45	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
46	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.	
47	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.	
48	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
49	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.	
50	The switch should support Private VLAN, Guest VLAN, or equivalent	
51	DHCP Features	
52	The switch should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.	
53	The switch should support DHCP Option 82 data Insertion	
54	The switch should support DHCP Server/Client for IPv4/IPv6	
55	5 Years Warranty	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	24 PORT POE GIGA MANAGED SWITCH L2	
	Technical Specifications	
	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
1	Form Factor 19" Rack Mountable.	
2	Physical Dimensions	
3	Architecture Non Blocking	
4	Ports It provides 24 10/100/1000Base-TX ports with PoE + 2 gigabit Combo ports(RJ45/SFP) + 2 gigabit SFP ports	
5	GBIC/SFP -support 2 gigabit combo ports (RJ45/SFP) + 2 x gigabit SFP Ports	
6	Management Interface -Web/SNMP/SSH/Telnet(IPv6 ready)/Console	
7	PoE 270W (PoE+ supported) with (6Kv) surge protection	
8	Port Status - Power, Link/ Act, PoE	
9	Power over Ethernet- Support IEEE802.3af, IEEE802.3at	
10	24 port PoE Interfaces, Max. PoE Wattage per Port: 30W	
11	Surge Protection-with 6 Kv surge protection per port	
12	MAC Addresses- Supported Up to 8K MAC addresses	
13	Switching capacity- 56 Gbps	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

14	and forwarding rate 41.7 MBPS	
15	VLANConfiguration- supports upto 4K VLAN Based on 802.1Q,MAC-Based VLAN, IP-Based VLAN	
16	Protocol-Based VLAN,VLAN Mapping	
17	Voice VLAN, Guest VLAN, Private VLAN	
18	Double VLAN Markup (Basic Q-in-Q)	
19	MAC Configuration -Support Static MAC Address, MAC Binding, MAC Filtering	
20	Support Web Management	
21	Support serial port management, Support TELNET management, Support SSH management	
22	Support RMON 1,2,3,9 group	
23	support port loop detection ,L2 Loop Protection	
24	Support STP/RSTP/MSTP,Link Aggregation	
25	Support manual Link Aggregation, Support LACP	
26	Up to 8 maximum aggregation groups, each containing up to 8 ports	
27	QOS Support -Support WRR, SP,WFQ, Sorting Based on 802.1p,	
28	Support packet mapped to the corresponding output queue, Support to modify the packet's COS and DSCP sign, Support limit of data flow, Support statistics of data flow, Support mirroring of data flow	
29	ACL SUPPPORT- Based on Standard IP	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

30	Based on Extend IP, Based on MAC IP, Based on MAC ARP	
31	Based on time, Port Filtering, MLD Snooping	
32	DHCP SNOOPING,IGMP SNOOPING	
33	IPv6- ICMPv6	
34	IPv6 Neighbor Discovery, IPv6 Telnet	
35	Port Security- Each port can be configured into isolated protected port from each other	
36	SNMP Support SNMP protocol, Support SNMP TRAP, Support standard and private MIB	
37	Cluster Management -Support neighbor discovery protocol, Support topology discovery protocol, Support manual and automated join cluster group, Support cluster unification management	
38	OAM -Support 802.3ah, Support 802.1ag	
39	Configuration Download/Upload and Upgrade Firmware	
40	Debugging Tools- Support Ping, Traceroute, Telnet client.	
41	Port mirroring /span Port- Support many to one mirroring	
42	DHCP SNOOPING-Support dynamic ARP binding to prevent ARP spoofing	
43	Support dynamic IP,MAC port binding	
44	Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever	
45	AAA-Support 802.1x protocol, RADIUS , Support MAC-based 802.1X authentication, Support 802.1x guest VLAN	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

46	Layer 3 Switching support-Support static Route and Static ARP	
47	EAPS Protocol-support ERPS	
48	Power-AC Input 100-240V AC. Power Cable as per Indian Standards to be Provided.	
49	WARRANTY 3 YEARS	

	24 PORT L3 MANAGED	
Sr No	Technical Specifications	
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
1	General Features	
2	The switch should support a minimum of 24 nos. 10/100/1000 Ethernet Ports	
4	The switch should support a minimum of 4 SFP+ Uplinks.	
5	Performance and Scalability	
6	The switch should support Full-duplex Switching bandwidth of 128 Gbps	
7	The switch should support 64-Byte Packet Forwarding Rate of 95 Mbps	
8	The switch should support 32MB SPI + 128MB NAND of Flash memory	
9	The switch should support 512 MB of DRAM	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

10	The switch should support 64 VLANs	
11	The switch should support 4096 VLAN IDs	
12	The switch should support Jumbo frames of 9216 bytes	
13	The switch should support Maximum transmission unit (MTU) of 10K	
14	The switch should support 16000 Unicast MAC addresses	
15	Stacking	
16	The Switch architecture should be able to stack 4 switches together with virtual stacking	
17	The Switch stack should be based on Distributed forwarding Architecture, where in each stack member forwards its own information on network.	
18	The Switch should support Stateful Switchover (SSO) when switching over from Active to Standby switch in a Stack.	
19	The Switch stacking should support 20 Gbps of throughput.	
20	The Switch stacking should support single IP address management for the group of switches.	
21	Power Supply	
22	The switch should support an auto-ranging power supply with input voltages between 100 and 240V AC.	
23	Standards	
24	The switch should support IEEE 802.1D Spanning Tree Protocol, support IEEE 802.1p	
25	The switch should support IEEE 802.1w Rapid Spanning	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Tree (RSTP), support IEEE 802.1x	
26	The switch should support SNMP v1, v2c, and v3	
27	Layer-2 Features	
28	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.	
29	The switch should support IEEE 802.1Q VLAN encapsulation.	
30	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.	
31	The switch should support Per-port multicast storm control to prevent faulty end stations from degrading overall systems performance	
32	The switch should support Per-port unicast storm control to prevent faulty end stations from degrading overall systems performance	
33	The switch should support Auto-negotiation on all ports to automatically selects half- or full- duplex transmission mode to optimize bandwidth	
34	The switch should support IGMP v1, v2 Snooping,IGMP v3 Snooping Multicasting, IGMP v1, v2 Filtering	
35	Layer-3 Features	
36	The switch should support Static Routing, RIPv1/v2, OSPFv2, BGP4, OSPFv3, BGP4+	
37	The switch should support LPM Routing.	
38	The switch should support Policy-based Routing(PBR)	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

39	IPv4 and Ipv6	
40	The switch should support VRRP, URPF, ECMP, BFD, IGMP v1/v2/v3, IGMP Proxy	
41	The switch should Static Multicast Route, Multicast Receive Control, Illegal Multicast Source Detect	
42	The switch should support ARP Guard, Local ARP proxy, Proxy, ARP, ARP Binding, Gratuitous ARP, ARP Limit	
43	Network security features	
44	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
45	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.	
46	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.	
47	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
48	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.	
49	The switch should support Private VLAN, Guest VLAN, or equivalent	
50	DHCP Features	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

51	The switch should support DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.	
52	The switch should support DHCP Option 82 data Insertion	
53	The switch should support DHCP Server/Client for IPv4/IPv6	
54	WARRANTY 5 YEARS	

SFP Trans module SM/MM		
	Technical Specifications	
	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
1	Architecture 1-port mini-GBIC LX Single-mode/MM Fiber Transceiver	
2	Connector duplex LC Connector	
3	Flow control.Support 802.3x	
4	Mode 9/125 um Single mode Fiber Type up to 20 KM./MM upto 2kms.	
5	Support wavelenght :1310nm	
6	Power Support:3.3V	
SOLID CABLE CATEGORY 6 A UTP		
Sr No	Description	Compliance

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Make:_____ (Specify)		
Model:_____ (Specify)		
	The 4 pair Unshielded Twisted Pair cable shall be ULØ Listed.	
	This cable well exceeds the requirements of TIA/EIA-568-C.2 and ISO/IEC 11801	
	Nominal Outer Diameter of Cable should be 7.10+/-0.3mm and Conductor Diameter 0.56 mm (23 AWG)	
	Construction: 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must.	
	Conductor Solid bare Copper and Outer jacket sheath FRPVC and UL approved CM rated cable. Jacket color: Light Grey	
	Insulation :High Density Polyethylene Solid	
	Dielectric Strength of cable should be 1000 V RMS	
	Bending Radius : < 4X Cable Diameter at -20°C +/- 1°C Pulling Force: 25.35 LBS	
	Electrical Parameters Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR.	
	Insertion Loss of 33.9 db/100m at 250 MHz	
	Cable should support operating Temperature from -20° to +70°C	
	Cable support Conductor Resistance < 74.6 Ω /1000m	
	Mutual Capacitance of cable should be < 5.6nF/100m	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Max Resistance Unbalance of cable should be 5% Max	
	Capacitance Unbalance of cable should max 330pF/100m	
	Cable support Delay Skew: < 45nS, Operating Voltage: 72V NVP: 69% and Current Rating : MAX 1.5A	
	Printed sequential Length Counter of each meter on Outer Jacket	
	Category 6A UTP cables shall Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 500MHz	

CAT6A KEYSTONE		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	Category 6A Keystone is Tool less Design 50 Micron Gold Plating Suitable For 23~24 AWG Stranded and Solid Wire, Easy For Termination and Compliant to T568A and T568B Wiring Schemes	
	Efficient : Rotation Design Tool Free, Press with Click to Terminate Wires	
	Cable Holder with Strain Relief Function for Better Termination	
	Fast, Easy, Reliable Termination	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Removable Shutter Option	
	Keystone Jack Can Be Easily Terminated by Hand, Optional Termination by Hand Tool	
	Backward compatible with both RJ11/RJ12 Plug	
	Physical:	
	Housing : High impact flame retardant plastic, UL 94V-0 rated	
	PCB : FR4, 1.6mm Thickness	
	Jack Wire : Phosphor bronze gold over nickel plating	
	Nickel Plating Base(Ni) : 40μ~80μ	
	Gold Plating : 50 microns	
	Connector : Insulation displacement connector	
	(IDC) Accept #23~24 AWG solid wire	
	Electrical:	
	Current Rating : 1.5amps	
	Insulation Resistance : 500 MΩ minimum	
	Contact Resistance : 10 mΩ maximum	
	DC Resistance : 0.1 Ω maximum	
	Mechanical:	
	Plug Insertion Life : 750 Cycles minimum	
	Plug & Jack Contact Force :100 Grams minimum using FCC-approved plug	
	Plug Retention Force : 30 lbs minimum	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Temperature : -40° to 150°F (-40° to 68°C)	
	Standard Verification:	
	Qualified unscreened Class EA/Cat.6A	
	Permanent Link & Channel ANSI/TIA-568-C.2	
	IEC 60603-7-4 2nd Edition	
	ISO/IEC 11801 2.2 Edition	
	CENELEC EN 50173-1:2011	

24 PORT PATCH PANEL LOADED 90DEGREE		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	The Cat-6A transmission performance is in compliance and Exceeds ANSI/TIA/EIA-568-C.2 Standard. Supports 1000-Base-T.	
	90 Degree (Top Entry) Punch Down Design for Convenient Network	
	Terminations	
	Ease of Installation with built in Rear Cable Management.	
	Removable Module Design	
	6x4 Module Specially Designed Jack Configuration	
	PCB: FR4, 1.6mm Thickness.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	IDC Conductor : 0.5 mm Phosphor Bronze, Tin Plating	
	Contact Compatibility : 22~26 AWG Stranded and Solid Wires	
	1U Patch Panel to Mount In any Standard Rack. Panel Frame : SPCC Powder Coating In Black Color.	
	Housing : High Impact Flame Retardant Plastic, UL 94V-0 Rated	
	Easy Port Labeling Identification Provision	
	Electrical Characteristics:	
	Current Rating : 1.5amps	
	Insulation Resistance : $\geq 500\text{m}\Omega$	
	Contact Resistance : $\leq 10\text{m}\Omega$	
	DC Resistance : $\leq 0.1\Omega$	
	DC/AC Volt Endurance : DC 1000V/ AC 750V 1 Min	
	Mechanical Characteristics:	
	Plug Insertion Life : ≥ 750 Cycles with FCC Compliant RJ-45 Plug	
	Plug & Jack Contact : ≥ 100 Grams with FCC Compliant RJ-45 Plug Force	
	Plug Retention Force : ≥ 11 LBF	
	Durability : 200 Termination Cycles	
	Operating Temperature : -10 Degree ~ 60 Degree	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Operating Humidity : 10% ~ 90% RH	
	Storage Temperature : -40 Degree ~ 68 Degree	
	Standard Verification:	
	ANSI/TIA-568-C.2	
	ISO/IEC 11801:2002/ AMMD.2:2010	
	YD/T 926.3-2009	
	ISO/IEC 60603-7 Compliant	
	RoHS Directive 2002/95/EC/Compliant	

FACE PLATE		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	Single & DUAL Face Plate Square (86 x 86mm) x 12 mm	
	Two Piece design : Mounting Frame and Cover Plate	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Shutter on Face Plate	
	Elegant : hidden-screw design	
	Glossy Finish : Suite for all decor	
	Cover Material : ABS-UL94-V2	
	Base Material : ABS-UL94-V2	
	Dust Cover Material : ABS-UL94-V2	
	Plug Retention Force : 14Kgf (140N)	
	Plug Reliability : 750 Cycles minimum	
	Should support UTP and STP Jacks Cat5e, Cat6 and Cat6A	
	Standard Verification:	
	ANSI/TIA-568-C.2	
	ISO/IEC 11801:2002 AMMD.2:2010	
	YD/T 926.3-2009	
	ISO/IEC 60603-7 Compliant	
	RoHS Directive 2002/95/EC/Compliant	

SURFACE MOUNT BOX		
Sr No	Description	Compliance
Make:_____ (Specify)		
1	Should have Robust and installer friendly design Surface Mount Boxes for Face Plates for a variety of media including voice and data, Audio, video and CATV distribution to the work area.	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2	Should secure and protect wire with durable wall box	
3	Material : ABS	
4	Shape : Square Size : 86 x 86	
5	Color : White	

FIBER PATCHCORD DUPLEX 2/5MTR LSZH		
Sr. No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	LSZH Jacket-Reduced Toxic Gasses Emitted During Combustion.	
	Simplex and Duplex Options	
	100% Factory Tested	
	Low Insertion Loss and Return Loss	
	Available with Corning Fiber	
	Available in PC/ APC Type Options	
	High Precision Ceramic Ferrule with Good Concentricity	
	LC to LC ,LC TO SC , SC TO SC	
	Technical Specifications:	
	Connector Type : LC ,SC	
	Fiber Type : OS2	
	Tight Buffer Color : yellow	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Tight Buffer Material : LSZH	
	Tight Buffer Diameter (mm) : 0.9 +/- 0.05	
	Strength Member : Aramid Yarn	
	Jacket Color : Yellow	
	Jacket Material : LSZH	
	Jacket Thickness (mm) : 0.45 +/- 0.05	
	Cable Diameter (mm) : 1.8(+/-0.1) X 5.9(+/-0.2)	
	Minimum Bending : 30 (static)	
	Radius (mm)	
	Attenuation (db/km) : <= 1.5 at 1300nm, <= 3.5mm at 850nm	
	Short Term Tensile (n) : 160	
	Crush Resistance (n/100mm) : 500	
	Operation Temperature : Minus 20 ~ Plus 70	
	(degree)	
	Optical Specifications	
	Insertion Loss : <= 0.2 db, Max 0.3db/MTRJ: Max 0.5db	
	Return Loss : PC>= 45db, UPC>=50db, APC>=60db	
	Mechanical Specifications	
	Connector Ferrule : Ceramic,	
	(MTRJ: PS PolyphenyleneSulphide)	
	Apex Offset : <50µm	
	Fiber Height : (+/-)100nm	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	End Face Radius of Curvature : 7mm <R<25mm(Excluding MTRJ)	
	Repeatability : <= 0.2db 1000 Times Mating Cycles	

DRAWAER LIU		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	Unload 24 Port Configuration Available in Standard 19"	
	6/12/24 Ports Adapter Interface available from day one without any adapter plates.	
	Consist of Top Cover and Bottom Panel	
	Easy to Assemble and Dissemble	
	Three Types of Inlet Holes	
	Cable Entry Through Water Proof Cable Glands	
	Splice Max 24 Fibers per Splice Tray	
	Patch Cord with Bend Radius Guides Minimize Macro Bending	
	Install 6 Cable Management Rings Inside to Ensure Flexibility	
	Comprehensive Accessory Kits for Cable Entry and Fiber Management	
	Dimensions (mm) : 430 X 220 X 1U	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Body Material : SPCC Black Powder Coating	
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FIBER ADAPTOR		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
Features	LC/SC adaptors should be duplex type.	
	Telcordia GR-326-Core.	
	RoHS Compliance	
	Low Insertion and Return Loss	
	Adaptors should have compact design & high precision	
	Telcordia, TIA/EIA, IEC compliance	
Insertion Loss	≤ 0.20 db for Zirconia Sleeve	
	Durability (1000 Matings): ≤ 0.2 db	
	Main Body Material : PBT/ ABS	
Sleeve/Ferrule Withdrawal Force	LC Adapter-1.0N ~ 2.5N	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

FIBER PIGTAIL		
Sr No	Description	Compliance
Make:_____ (Specify)		
Model:_____ (Specify)		
	LSZH Jacket-Reduced Toxic Gasses Emitted During Combustion	
	100% Factory Tested	
	Low Insertion Loss and Return Loss	
	Available with Corning Fiber	
	Available in PC Type Options	
	High Precision Ceramic Ferrule with Good Concentricity	
	LC/SC options	
	Technical Specifications:	
	Connector Type : LC /SC	
	Pigtail Length : 2 Mtr	
	Fiber Type : OS2	
	(9/125 Corning Clear Curve)	
	Tight Buffer Material : LSZH	
	Tight Buffer Diameter (mm) : 0.9 +/- 0.05	
	Jacket Color : Yellow for OS1/OS2	
	Jacket Material : LSZH	
	Minimum Bending : 30 (static) Radius (mm)	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	Attenuation (db/km) : <= 1.5 at 1300nm, <= 3.5mm at 850nm	
	Short Term Tensile (n) : 160	
	Crush Resistance (n/100mm) : 500	
	Operation Temperature : Minus 20 ~ Plus 70 (degree)	
	Optical Specifications	
	Insertion Loss : <= 0.2 db, Max 0.3db/MTRJ: Max 0.5db	
	Return Loss : PC>= 45db, UPC>=50db,	
	Mechanical Specifications	
	Connector Ferrule : Ceramic, (MTRJ: PS Polyphenylene	
	Sulphide)	
	Apex Offset : <50µm	
	Fiber Height : (+/-)100nm	
	End Face Radius of Curvature : 7mm <R<25mm(Excluding MTRJ)	
	Repeatability : <= 0.2db 1000 Times Mating Cycles	
	Working Temperature : (minus 40 Degree ~ Plus 85 Degree)	
	Storage Temperature : (minus 40 Degree ~ Plus 85 Degree)	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

Technical Specification Details for 1, 2 & 3 KVA UPS			
Sr.No	Characteristic	Minimum Required Specification	COMPLIANCE
	Make:_____ (Specify)		
	Model:_____ (Specify)		
	Technical	1/2/3 KVA UPS	Compliance
1	INPUT		
1.1	Voltage	230 Volts, 1 Phase	
1.2	Voltage Variation	160-300 VAC	
		110-300 V AC @ 60% Load	
1.3	Frequency	50 Hz	
1.4	Frequency Variation	47.5 Hz to 52.5 Hz	
1.5	Power Factor	>0.98	
1.6	Input Current Distortion	< 10%	
2	OUTPUT		
2.1	Voltage	230Volts, 1 Phase	
2.2	Voltage Variation	± 1 %	
2.3	Power Factor	0.8	
2.4	Crest Factor	3:1	
2.5	Frequency	50 Hz	
2.6	Frequency Regulation	±0.1%	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2.7	Wave form	Sine wave	
		< 3% THD for linear load	
2.8	Harmonic Distortion	< 5% THD for non-linear	
		load	
2.9	Overload Rating	105% ~ 110 % for 10 minutes	
		111% ~ 130 % for 60 Sec.	
2.10	Comunication	RS 232 & USB comport	
		SNMP/ Dry contact (optional)	
3	BYPASS	Inbuilt Auto static bypass require	
4	EFFICIENCY		
4.1	AC to AC	> 86%	
4.2	ECO mode	Up to 97%	
5	METERING DIGITAL		
5.1	LED / LCD Display	Required	
		Enclosure made of steel	
6	ENCLOSURE	sheet having 1.2 mm	
		(minimum) thickness,	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

		coated.	
7	Battery	SMF VRLA Batteries	
7.1	VAH	Minimum VAH (12V x	
		AH x Nos. of Battery)	
	Battery rack & battery	suitable powder coated	
7.2	inter connecting cable	battery rack should be	
		provided with battery	
		interlinks	
8	Approved Make		
8.1	Battery Make	Any recognized OEM	
9	OPERATING	0-40 degree continuous	
	TEMEPARURE		
10	Standards		
10.1	Ingress Protection	IP20	
10.2	Safety	EN/IEC 62040-1	
10.3	EMI/EMC	EN/IEC 62040-2	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

10.4	Performance	IEC 62040-3	
10.5	Certification	CE	

Technical Specification Details for 5/10KVA

Sr.NO	Characteristic	Minimum Required Specification	COMPLIANCE
	Make:_____ (Specify)		
	Model:_____ (Specify)		
	Technical	5/7.5/10 KVA UPS	Compliance
1	INPUT		
1.1	Voltage	230 Volts, 1 Phase	
1.2	Voltage Variation	160-300 VAC	
		110-300 V AC @ 60% Load	
1.3	Frequency	50 Hz	
1.4	Frequency Variation	47.5 Hz to 52.5 Hz	
1.5	Power Factor	>0.98	
1.6	Input Current Distortion	< 10%	
2	OUTPUT		
2.1	Voltage	230Volts, 1 Phase	
2.2	Voltage Variation	± 1 %	
2.3	Power Factor	0.8	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2.4	Crest Factor	3:1	
2.5	Frequency	50 Hz	
2.6	Frequency Regulation	±0.1%	
2.7	Wave form	Sine wave	
2.8	Harmonic Distortion	< 3% THD for linear load	
		< 5% THD for non-linear load	
2.9	Overload Rating	105% ~ 110 % for 3 minutes	
		111% ~ 130 % for 30 Sec.	
2.10	Communication	RS 232 & USB comport	
		SNMP/ Dry contact (optional)	
3	BYPASS	Inbuilt Auto static bypass require	
4	EFFICIENCY		
4.1	AC to AC	> 86%	
4.2	ECO mode	Up to 97%	
5	METERING DIGITAL		

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

5.1	LED / LCD Display	Required	
6	ENCLOSURE	Enclosure made of steel sheet having 1.2 mm (minimum) thickness, coated.	
7	Battery	SMF VRLA Batteries	
7.1	VAH	Minimum VAH (12V x AH x Nos. of Battery)	
7.2	Battery rack & battery inter connecting cable	suitable powder coated battery rack should be provided with battery interlinks	
8	Approved Make		
8.1	Battery Make	Any recognized OEM	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

9	OPERATING TEMEPARURE	0-40 degree continuous	
10	Standards		
10.1	Ingress Protection	IP20	
10.2	Safety	EN/IEC 62040-1	
10.3	EMI/EMC	EN/IEC 62040-2	
10.4	Performance	IEC 62040-3	
10.5	Certification	CE	

ANNEXURE-II

(This form should be filled, signed with sealed and then scanned and uploaded on the tender wizard)

UNDERTAKING

(To be filled by the Bidder only)

To,
The Director (ITE&C),
Department of Information Technology, Electronics and Communications
2nd floor, IT HUB, Altinho,
Panaji-Goa.

Sub: Undertaking for participating in the tender for extended GBBN connectivity and computer networking.

We, _____ <Name of the firm> _____ - having a registered office at
_____ <Office address> _____ bearing registration no.

_____ <Registration no.> _____, have submitted the bids against the tender for Technical empanelment of vendors for supply installation and commissioning of networking infrastructure (LAN, WAN & UPS connectivity) to Govt. Departments/Organizations/Institutions/Corporations/Autonomous bodies in Goa. We hereby agree to strictly abide by the Terms & Conditions of the tender, and also to undertake full responsibility for the successful execution of the Contract.

We hereby confirm that we are neither we are blacklisted/barred by Government / Semi - Government / Quasi- Government organization or Govt. Corporation nor do we have any pending cases with GoG, as on date.

We hereby also declare that all the particulars furnished by us in this Tender are true to the best of my/our knowledge and we understand and accept that if at any stage, the information furnished is found to be incorrect or false, we are liable for disqualification from this tender and also are liable for any penal action that may arise due to the above.

Authorized Signatory with Name, Designation & Date:

ANNNEXURE-III

LIST OF NETWORKING ITEMS: -

Sr.No	Item description	Model/Make to be provided by the bidder.
Sr.No	Items description	
1	8 Port gigabit L2 managed POE	
2	8 Port gigabit L2 managed	
3	8 Port unmanaged switch POE	
4	24 Port gigabit switch with 4 SFP ports (L2)	
5	24 port L3 managed switch	
6	24 port managed L3 POE gigabit switch	
7	24 port gigabit stackable switch with additional 4 SFP+ Ports Layer 3	
8	24 port POE gigabit managed (L2)	
9	CAT 6A Cable	
10	CAT 6A UTP surface mount box	
11	RJ 45 connector	
12	1 mtrs Patch Cord cat 6A	
13	3 mtrs Patch Cord cat 6A	
14	24 Port Keystone Patch Panel Cat6A	
15	I/O Cat 6A UTP Single Port, face plate(single)	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

16	I/O Cat 6A UTP Single Port, face plate(dual)	
17	I/O Cat 6A UTP Single Port, face plate(quad)	
18	6 Amp Modular Electric Switch	
19	6 Amp Modular Electric Socket	
20	MCB 63 Amp	
21	MCB 40 Amp	
22	16 amp Modular Electric Switches	
23	16 Amp Modular Electric Socket	
24	Modular Plate 12 Modules	
25	Surface Box 12 Module	
26	Electrical copper wire: 1 sq mm wire	
27	Electrical copper wire : 2.5 sq mm wire	
28	Electrical copper wire : 4 sq mm wire	
29	Electrical copper wire : 6 sq mm wire	
30	PVC casing & capping 1"	
31	PVC casing & capping 2"	
32	6 U Rack	
33	9 U Rack	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

34	12 U Rack	
35	19 U Rack	
36	42 U Rack	
37	6 Core armored cable -MM	
38	12 Core armored cable -MM	
39	24 Core armored cable -MM	
40	48 Core armored cable -MM	
41	6 Core armored cable -SM	
42	12 Core armored cable -SM	
43	24 Core armored cable -SM	
44	48 Core armored cable -SM	
45	SC/LC/STSC/LC/ST Fiber duplex patch cord-(MM) - 1 mtrs	
46	SC/LC/STSC/LC/ST Fiber duplex patch cord-(MM) - 2 mtrs	
47	SC/LC/STSC/LC/ST Fiber duplex patch cord-(MM) - 3 mtrs	
48	SC/LC/STSC/LC/ST Fiber duplex patch cord-(MM) - 5 mtrs	
49	SC/LC/STSC/LC/ST Fiber duplex patch cord-(MM) -10 mtrs	
50	SC/LC/STSC/LC/ST Fiber duplex patch cord-(SM) - 1 mtrs	
51	SC/LC/STSC/LC/ST Fiber duplex patch cord-(SM) - 2 mtrs	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

52	SC/LC/STSC/LC/ST Fiber duplex patch cord-(SM) - 3 mtrs	
53	SC/LC/STSC/LC/ST Fiber duplex patch cord-(SM) - 5 mtrs	
54	SC/LC/STSC/LC/ST Fiber duplex patch cord-(SM) -10 mtrs	
55	Multi-Mode Fiber Converter	
56	Single-Mode Fiber Converter	
57	LC Connector – MM	
58	LC Connector – SM	
59	SC Connector – MM	
60	SC Connector – SM	
61	ST Connector – MM	
62	ST Connector – SM	
63	12 Port Rack Mount LIU loaded with Splice Tray and Cable spool	
64	24 Port Rack Mount LIU loaded with Splice Tray and Cable spool	
65	48 Port Rack Mount LIU loaded with Splice Tray and Cable spool	
66	6 Port adapter plate loaded with LC MM couplers	
67	6 Port adapter plate loaded with LC SM couplers	
68	6 Port adapter plate loaded with SC MM couplers	
69	6 Port adapter plate loaded with SC SM couplers	

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

70	Pigtail SC/LC MM - 2 mtr	
71	Pigtail SC/LC SM - 2 mtr	
72	Single Mode Fiber Transceiver	
73	Multi-Mode Fiber Transceiver	
74	Single-Mode Fiber Converter	
75	Multi-Mode Fiber Converter	
76	8/24 Port Rack mount LIU	
77	Fiber Patch Cord Sc-Lc Type - SM (3 mts)	
78	Fiber Patch Cord Sc-Lc Type - MM (3 mts)	
79	Fiber Pig Tails Sc / Lc - SM	
80	Fiber Pig Tails Sc / Lc - MM	
81	Adapters Sc / Lc - SM	
82	Adapters Sc / Lc - MM	
83	CAT6A cable laying : Fixing & laying of cat6A cable in PVC casing from client node to the LAN main 24 port network switch/Rack/Junction box.	Mtrs
84	Input /output Termination: Install, test and commission of input /output cat 6A UTP single port with surface mount box. The work shall include for all labour crimping and end terminations with proper tools as per the company standards.	Mtrs
85	Rack fixing with all networking components. The work shall include for all labour cost for rack fixing, end termination of patch panel and 24 port switch using 1 mtrs patch cord and	1

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	commissioning of network.	
86	Fiber Termination: Install, test and commission of Optical fiber termination. The work shall include for all labour of fiber splicing and end terminations with proper tools as per the company standards. (1 core=2 fusion for fiber spicing). It also includes fixing of LIU, transreceiver, Fiber patch cord LC-SC Type, Fibre SM Pig Tails LC, LC Adapters, Fiber to copper converter in rack.	1
87	Fibre Cable Laying : Laying & fixing of Outdoor Armored Fiber Cable without HD & GI Steel pipe.- Underground.	1 mtrs
88	Fibre Cable Laying : Laying & fixing of Outdoor Armored Fiber Cable without HD & GI Steel pipe.- Aerial.	1mtrs
89	Fibre Cable Laying : Fixing & Laying of Outdoor Armored fiber Cable in Gi/steel Piping of 10 m.m. when passing through tar/concrete road.	1mtrs
90	Fibre Cable Laying : Fixing of Outdoor Armored Fiber Cable in High density (HD) pipe of 30 mm when laid under soil.	1 mtrs
91	Excavating & refilling of soil (Hard/Soft) without ROW /Permissions	1mtrs
92	Excavating & refilling of tar/concrete road without ROW/Permissions	1 mtrs
93	Removal of Old cabling (LAN) work including shifting/ rework, Bidder is required to remove the same & shift at new place or at DITE&C store. (without transport cost)	1
94	Re-installation and commissioning works that includes shifted items (racks, patch chords, patch	1

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

	panels switches, any other items, etc). (without transport cost)	
<u>UPS</u>		
95	1 KVA UPS Include battery with 1 hour battery backup	1
96	2 KVA UPS Include 2 hours battery backup.	1
97	5 KVA UPS include 3 hours battery backup	1
98	10 KVA UPS Include 3 hours battery backup	1
99	Electrical Termination: Install, test and commission 3 nos of 6A socket & switch and 1 nos of 6 X 16A universal socket & 6 A switch with module modular polycarbonate surface box and module modular polycarbonate surface box and moulded modular polycarbonate switch plate including the termination of wires.	1 Nos
100	Electrical Wire laying: fixing & laying of electrical wiring in PVC casing from client node to UPS output.	1 mtrs

Note:

1. All the managed switches should be IPv6 ready.

TENDER DOCUMENT FOR TECHNICAL EMPANELMENT OF VENDORS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF NETWORKING INFRASTRUCTURE (LAN, WAN & UPS CONNECTIVITY) TO GOVERNMENT DEPARTMENTS/ORGANIZATIONS/ INSTITUTIONS/ CORPORATIONS/ AUOTONOMOUS BODIES IN GOA

2. The above specification list of devices/items is tentative and when there is an upgrade in a particular technology/technique. DITE&C reserves the right to amend/modify this specification list as per' the need/requirement.

ANNEXURE-IV
FINANCIAL BIDS AND ISSUE OF WORK ORDERS

The Department of IT, Electronics and communications (DITE&C) shall call financial bids/short tenders by defining SLA's, Specification of equipments within the empanelled vendors depending upon the requirement of new GBBN Connectivity, Shifting of GBBN Locations, rectification of GBBN Connectivity of different Government Departments/Corporations/Schools/Colleges etc. The timelines for the Short tender may vary from 7 days to 21 days.

DITE&C can also take up the work to provide /laying of optical fiber cable (OFC) to uncovered villages of Goa through its empanelled vendors. The empaneled vendor who quotes L1 rates shall be selected as L1 bidder and shall be issued work order. The selected bidder shall submit 5% of the work order value as Performance Bank Guarantee (PBG) in the form of Bank Guarantee upon issue of work order.

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END