Tender document

To Supply, Installation, and Commissioning of NICNET connectivity to TDB from NIC Network

Technology Development Board

Technology Bhawan, Block-II, 2nd Floor, New Mehrauli Road, New Delhi–110016. TDB's Web-Site: tdb.gov.in

(1) REQUEST FOR TENDER:

Technology Development Board (TDB), Department of Science and Technology, invites tender proposals from NICSI-empanelled and reputed firms with similar experience in Govt. organisations for the following works:

- I. TDB intends to engage an agency/firm for the supply, installation, testing, and commissioning of Active and Passive Network Components for establishing the NICNET connectivity at TDB, Technology Bhawan Campus, DST, Mehrauli, New Delhi 110016.
- II. Integrated solution, supply, installation, testing, commissioning, and operationalisation of NICNET Connectivity through Leased Line/Fiber Optic connectivity using Active and Passive network components with a minimum 1-year Warranty for Active and Passive Components of the networking items.
- III. The objective of the assignment, a broad scope of work, delivery schedule, payment, conditions, etc. for the aforesaid work is given below.
- IV. This Tender is for the **Authorised Dealer/Distributor/System Integrator of the OEM of the offered product (Bidder to submit MAF issued by OEM)**, as per the format provided. The vendor should not outsource the contract to a third party.
- V. Authorised **Dealer/Distributor/System Integrator** are hereby invited to submit their proposals along with design as well as complete technical specifications of the proposal for supply, installation, testing, and commissioning of Active and Passive Network Components for establishing NICNET services through physical tendering mode only, in the prescribed format. The proposals should be submitted physically in the prescribed format. No change in formats or other mode of submission is permissible. After the said deadline, the tender shall not accept any other mode of submission.
- VI. TDB shall have the right to annul the entire process or reject any/all proposals without assigning any reason and incurring any cost.
- VII. The project shall be a complete turnkey solution. The cost of the CAMC should be given separately in the Financial Bid with a year-wise breakup. The payment for CAMC will be released after the completion of preventive maintenance every quarter after getting a satisfactory service report/certificate from the IT Division/Gen. Admin. Section of TDB. For this, the bidder shall have to submit 2 copies of the original quarterly invoice along with the service report.
- VIII. The **Authorized Dealer/Distributor/System Integrator** is hereby invited to submit their bids comprising Technical and Financial Bids through physical mode on or before the bid due date. The bid shall be valid for 120 days w.e.f. Bid due date. The bids should be submitted in physical mode only and in the prescribed formats. No change in the formats or other modes of bid submission is permissible.
 - IX. For any clarification, the bidder may send their questions through E-mail. All queries shall be addressed to mail id: **rahul.sharma@tdb.gov.in**. Clarifications to the bidder's queries, along with Amendments / Corrigendum, if any, will be displayed on the official website of TDB.
 - X. Interested agencies/firms are requested to submit the tender in sealed envelop containing two sealed envelopes (i) Technical Bid and (ii) Financial bid to The Under Secretary, Technology Development Board, Block-II, 2rd Floor, Technology Bhawan, Mehrauli Road, New Delhi. Pin 110016
 - XI. Last date of submission of tender proposal is 10th September, 2025.

(2) Overview of the department:

The Technology Development Board (TDB) is a statutory body under the Department of Science and Technology for financial assistance to Indian startups/MSMEs/ Industry for the commercialisation of indigenous technologies.

(3) Purpose of the Document:

The purpose of the document is to inform the bidder about the actual requirements for establishing NICNET connectivity and accessing e-Governance applications of the Government of India. This document elaborates on the detailed proposed structure and functional requirements for the implementation of NICNET connectivity to TDB.

(4) Scope of Work and Objectives:

The TDB, Technology Bhawan, Mehrauli Road, New Delhi -110016. It is located on the campus of DST. The TDB proposes to implement NICNET connectivity in its premises as per the security guidelines of the Ministry of Home Affairs (MHA) and the National Informatics Centre (NIC). The bidder will have to comply with CPWD guidelines while executing excavation work, electrical wiring layout and allied works on the decided route map by NIC and DST.

(5) Objectives

This document outlines the steps required to ensure NICNET connectivity at TDB, Technology Bhawan.

The finalised/selected bidder will supply Active and Passive components to establish NICNET (Internet/Intranet) connectivity between NIC-HQ or INOC Centre, NIC, considering the Cyber Security guidelines of NIC, MHA, etc.

(6) Selection Methodology:

- A duly constituted committee will scrutinize the Prequalification bids/Technical and financial bids. The committee will recommend the technically qualified bidders after the Technical Evaluation.
- The prequalification has to be submitted by respective bidders on the prescribed Date and Time in sealed covers.
- The bidders meeting the prequalification criteria would be required to submit their technical and financial proposals in separate covers.
- Any bidders not meeting the prequalification criteria will be summarily rejected. The bids meeting the prequalification criteria will proceed for Technical Evaluation.
- Technical and financial proposals should be submitted in sealed and separate envelopes. Both
 envelopes are to be sealed in a master envelope superscribed with the name of the bidder and
 project titled "TENDER document to supply, installation, and commissioning of NICNET
 connectivity to TDB from NIC Network".
- The technically selected bidders have to give a presentation based on the scope of the work as per the required active and passive components. The bidders shall have to brief on the technology, methodology, project milestones, completion, and deliverables during the presentation. The date and timing for technical bids, presentations, etc., shall be communicated after the submission of the proposal.
- After the presentation, the committee will recommend the eligible bidders based on the technical evaluation and presentation. The financial bids will be opened after the due approval from the competent authority. The proposal should have a break-up of each component and phase.

(7) Time Schedule for the bidding process:

Activity	Date & Time
Tender Publication Date	21.08.2025
Meetings with Vendors to resolve their queries, if any	27.08.2025
Release of Corrigendum/ Modified Tech Specs. Etc. if any	03.09.2025
Last date & Time of Submission of Bids	10.09.2025 Up to 5.30 PM

^{**}Any change in the above-mentioned dates and times will be duly notified through e-mail

	Pre-Qualification/Technical Criteria for participating bidders.						
Sl. No.	Basic Requirement	Specific Requirement	Documents Required				
1	Manufacturer Authorization Letter	Manufacture Authorization Letter for Active and Passive network components.	Authorization Letter should be produced from the concerned OEMs.				
2	Project Experience	The bidder should have successfully designed, implemented, and commissioned at least 3 similar kinds of projects for any Government organization/Institute.	Work Order and Certificate of completion of the work for clients/ Client satisfaction certificates.				
3	Years of Experience	The bidder should have at least 3 years of continuous experience in successfully designing and implementing such Network projects for any Government organization/Institute.	Work Order and Certificate of completion of the work for clients/ Client satisfaction certificate for each year of experience.				
4.	Presence in India	The OEM of passive components to be quoted by the bidder should have been present in India for at least the past 10 years. (Details must be provided).	Necessary supporting documents for office locations, including manufacturing/assembling factory locations, may be provided.				
5.	RoHS Compliant	All Active and passive components should be RoHS complied with. Declaration of – ROHS compliance should be mentioned clearly on the data sheets of each Passive Component, or a separate RoHS declaration must be submitted.	Necessary Certification may be provided for compliance.				
6.	Bidder Turnover	Annual Turnover of Rs. 1 Crores for the last 03 financial years (2022-23, 2023-24, 2024-25).	Self-certified on company letter pad duly signed and sealed.				
7.	Acceptance Letter for financial bids	Duly signed Acceptance Letter stamped to be submitted with all terms and conditions of the tender.	Acceptance Letter duly signed and stamped.				

Basic Requirement	Specific Requirement	Documents Required
Earnest Money Deposit (EMD)	Original Draft/DD for EMD/Bank Guarantee in favour of Technology development Board.	Original Draft/DD should be submitted before the last date of the application submission.
Company Registration	Proof of the company being registered under the Companies Act Registration and incorporation	Documentary Proof should be attached.
Technical Compliance	The firm should be technically qualified as per the technical requirements provided in the Technical Documents.	The necessary Model/Brand/Brochure should be attached for evaluation.
Income Tax Return and Balance Sheet of the organization.	Copies of Income Tax Returns filed for the last 3 years (2022-23, 2023-24, and 2024-25) and audited balance sheets for the same period.	Documentary Proof should be provided.
Acceptance Letter	Acceptance Letter – Please sign each page of the tender document to accept/agree to all the terms and conditions mentioned in the tender document. This will become part of the agreement to be signed by the TDB with the successful bidder.	As mentioned in the requirement.
OEM Support	The bidder should quote for back-to-back OEM services for 5 years of support to ensure that the customer gets 24x7 access to the OEM TAC.	Letter from OEM for the same.
Undertaking for Blacklisted	Brief profile of the company along with any other information and undertaking that they have not been blacklisted by any Central/State govt. Organisations.	The letter should be provided on the letterhead of the company.
OEM/Bidder Contacts	The OEM should have Technical Assistance near TDB locations with Toll-Free/Contact No. in India.	OEM/Bidder Contact should be provided for support and services.
Technical Support/Escalation Matrix	The Bidder/OEM should provide Toll-Free/local Support numbers and a compliant escalation matrix.	The necessary document should be provided.
Bidders/OEM Site Visit	The bidder must visit and inspect the actual site of implementation before submitting the bid.	A certificate (Annexure-C) certified by the department must be submitted along with the tender.

- No advance payment will be made. In the case of NICSI/PSUs, 40% payment will be made as per the GFR guidelines of Govt with due approval of the competent authority. TDB will release the payment to the awarded contractors /agencies after the delivery of Active and Passive components, installation, and commissioning of the entire project.
- The Payment terms, Penalty, PG, EMD, Service Charges, GST, etc., applicable to the empanelled agencies as per the guidelines of Gem/NICSI, TDB, and Income Tax Dept. etc.
- Payment shall be released on successful completion of the entire scope of work, or the milestone payment will be released as mentioned below.
- All payments shall be subject to deduction of TDS at the applicable rate, if any GST shall be payable by TDB, it will be applicable as per rules at the time of payment based on GST Invoice/Proforma-Invoice (in case of NICSI).
- No claim for interest in case of delayed payment will be entertained by the TDB
- Bid shall remain valid for acceptance for a period of 120 days.
- The payment or part payment will be made subject to submission of Inspection Report/Certificate, Invoice duly certified, authorized, or any other relevant documents as required by the TDB during the payment.

Payment shall be made by TDB for the services rendered by the Service provider, as per the provisions prescribed in the Terms of Reference

- (a) The schedule of payment shall be as specified in the tender.
- (b) The service provider/contractor shall be liable for the payment of all taxes and levies prevalent or imposed during the period of contract agreement and indemnify TDB against any such claims.
- (c) The payment shall be released only after the whole work has been completed and, on its working, satisfactorily.
- (d) For claiming this payment, the following documents are to be submitted to the purchasing authority.
- (i) 2 Copies of Invoice.
- (ii) Delivery Challan/Bills in duplicate duly pre-receipted.
- (iii) No payment will be made for goods rejected at the site on testing.
- (iv) Payment will be made after technical inspection by the TDB through the NIC/DST to verify the technical compliance of the item supplied.
- (v) The invoice should be cross-checked with the actual receipt of material/assets/services to ensure that the payment matches the actual performance.
- (vi) The contractor must certify on the bill that the payment being claimed is strictly within the terms of the contract and that all the obligations on his part for claiming this payment have been fulfilled as required under the contract.
- (vii) The bidder should provide the name of the person and his designation for signing the invoice and tender document to claim the payment.

All the bidders who secure a Technical Score of 70% or more will be declared as technically qualified.

- The bidder with the highest technical bid (H1) will be awarded a 100% score.
- Technical Scores for other than H1 bidders will be evaluated using the following formula:
- Technical Score of a Bidder = {(Technical Bid score of the Bidder/ Technical Bid Score of H1) X 100} % (Adjusted to two decimal places)

(10) Evaluation of Financial Bid

- The Financial Bids of the technically qualified bidders will be opened on the prescribed date in the presence of the bidder or their representatives.
- The bidder with the lowest financial bid (L1) will be awarded a 100% score.
- Financial Scores for other than L1 bidders will be evaluated using the following formula:

Financial Score of a Bidder = {(Financial Bid of L1/Financial Bid of the Bidder) X 100} % (Adjusted to two decimal places)

- Only fixed-price financial bids indicating total prices for all the deliverables and services specified in this bid document will be considered.
- The agencies have to include all taxes and levies and shall be in Indian Rupees.

(11) TENDER BID SECURITY:

■ The Earnest Money Deposit (EMD) of Rs. 2,50,000/- (Rupees Two Lakhs fifty thousand only), for the estimated cost of the tender shall be furnished in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Bank in India in favour of Technology Development Board and payable at New Delhi shall not be liable to pay any interest on the EMD. For RTGS / NEFT, the bank details are as follows: -

Account Name: TECHNOLOGY DEVELOPMENT BOARD

Account Number: 349902010039441 **Bank Name:** UNION BANK OF INDIA

Branch: SDA BRANCH **IFSC Code:** UBIN0534994

The bidder must mention the tender reference number in the payment remarks. A scanned copy of the payment proof should be attached with the bid.

- The EMD shall be valid for a minimum period of 120 days from the last date of submission of the tender. Any proposal not accompanied by the prescribed EMD and Bid Securing declaration/MSME Certificate in the prescribed manner shall be summarily rejected. The EMD should be submitted to the TDB in the form of sealed envelope on or before the mentioned last date. The EMD is exempted for MSME OEMs who are authorized by the Ministry of Micro, Small & Medium Enterprises. The MSME Certificate has to be produced to claim the same. The MSME Certificate will be verified from the website of MoMSME.
- The EMD of unsuccessful Applicants shall be returned without any interest whatsoever within 60 days upon declaration of successful bidder. The Applicant should indicate details of their bank account number for crediting the refund of EMD through ECS (RTGS/NEFT). This information should be provided in the Technical Proposal.
- A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period. Kindly attach a copy of the cancelled cheque to process the refund the of Earnest Money Deposit. (EMD).

(12) FORFEITURE OF EARNEST MONEY DEPOSIT:

- The EMD shall be forfeited or appropriated by TDB as mutually **agreed genuine** pre-estimated damages payable to TDB for inter-alia, time, cost, and effort of the department without prejudice to any other right or remedy that may be available to TDB under the provisions contained in this document and under the contract or otherwise, under the following circumstances such as:
 - a) A Bidder engages in any corrupt practice, fraudulent practice, coercive practice, undesirable practice, or restrictive practice.
 - b) The Bid is withdrawn during the intervening period between the bid due date and the expiration of the Bid Validity or if the bidder tries to influence the evaluation process.
 - c) A Bidder has been notified of a Successful Bid by TDB with the issuance of a Letter of Award (LOA) during the bid validity period. Fails or refuses to furnish the Performance Security in accordance with the conditions of the Tender; or fails or refuses to execute/sign the Contract within the stipulated time frame.

(13) BID VALIDITY:

The bid should remain valid for a period of 120 days. The Bid Security is normally to remain valid for a period of 45 (Forty-Five) days beyond the final bid from the bid due date. TDB will make its best effort to complete the evaluation process and award the work within the bid validity period. Under exceptional circumstances, before the expiry of the bid validity, TDB may request bidders to extend the bid validity for a specified additional period beyond such request by TDB, and the reply/response from the bidder shall be in writing. The bidder(s) not agreeing to such an extension will be allowed to withdraw their bids without forfeiture of their bid security.

(14) LANGUAGES OF THE BID:

The Bid and all communications in relation to or concerning the tender shall be in <u>English language</u>. No supporting document or printed literature shall be submitted with the Bid unless specifically asked for, and in case any of the documents are in another language, it must be accompanied by an accurate translation of the relevant passages in English, in which case, for all purposes of interpretations of the Bid, the original documents attached with the bid or the information incorporated in the bid shall be final and binding.

(15) PERFORMANCE SECURITY:

Upon issue of a Letter of Award (LoA) by TDB, the Successful Bidder shall be required to furnish an unconditional and irrevocable Performance Security in the form of a Performance Bank Guarantee (PBG) in the prescribed format within 15 working days after issue of the Award Letter. The PBG shall be for an amount of 10% of its financial proposal value and should be in favour of technology Development Board payable at New Delhi.

The Performance Security shall be valid for the period of the contract period, including warranty and AMC, which may be extended appropriately such that it remains valid until one year beyond completion of the contract. The Performance Security shall be valid initially for one year, including the CAMC period, which can be extended appropriately such that it remains valid until one year beyond the completion of the contract.

(16) DELIVERY/INSTALLATION:

Delivery of the goods and documents shall be made by the Supplier in accordance with the terms specified by the Purchaser in its Schedule of Requirements and conditions of the tender document, and the goods shall remain at the risk of the supplier/contractor until delivery has been completed. The Supplier should supply the items within 60 days from the date of issue of the final purchase order, and the installation and commissioning of the project should be 3 months from the date of purchase order or given in the Annexure A. Failing which the TDB may apply the clause Liquidated Damages and finally cancel the order and forfeit the performance security.

(17) WARRANTY:

- 3 Years of Comprehensive Onsite Warranty for Active and Passive Components as mentioned in the tender document (from the date of commissioning of a system).
 - Replacement or repair under the warranty clause shall be made by the supplier free of charge at the site, including freight, insurance, and other incidental charges.
 - A 3-year onsite Warranty shall be provided to all the Active and Passive components of the network as mentioned in the tender document. After a year warranty period, 2 years of Comprehensive AMC (CAMC) shall be provided to the entire NICNET solution as mentioned. The cost of the CAMC should be given separately in the Financial Bid with a year-wise breakup. The payment for CAMC will be released after completion of every quarter after getting a satisfactory service report/certificate from the IT Division/Gen. Admin. Section of TDB.
 - Integrated solution, supply, installation, testing, and commissioning of NICNET/WAN Infrastructure along with 3 years On-Site Warranty consisting of 24x5 Next Business (NBD) support along with 2 years Comprehensive Annual Maintenance Contract (CAMC) for operation and monitoring of entire NICNET infrastructure of the TDB. The selected firm should provide quarterly preventive maintenance reports during the AMC period for releasing the payment.

(18) PENALTY:

Penalty Clause: If the successful bidder fails to complete the process of supply and installation and completion of the Active and Passive components as mentioned in the tender, a penalty will be imposed on it @ Rs.500/- per day for up to one month. Thereafter, the LD clause will be applicable, and the PO will be cancelled.

(19) PAYMENT TERMS:

The Payment will be made after the supply, installation, and commissioning of the entire works mentioned in the tender document as per the payment terms and conditions mentioned in the tender.

During the CAMC period, if any active or passive components of the NICNET Connectivity setup are found defective or in case does not work for any reason, the AMC contractor or successful bidder should attend the call within six working hours from the time of reporting through e-mail/telephone/fax, etc. and rectify the problem within Next Business Day (NBD) or 24 Hrs If any spare parts is to be replaced/repaired, it must be carried out within 7 days from the date of registering the complaint, failing which penalty of Rs. 1000 per day will be imposed subject to maximum period of 30 days. If the complaint is not attended to or cannot resolve the issues beyond 30 days, the CAMC will be cancelled, and the performance security will be forfeited.

(20) LIQUIDATED DAMAGES: (LD):

The date of delivery and installation stipulated in the acceptance of the tender should be deemed to be the essence of the contract and delivery and installation must be completed no later than 90 days from the award of the contract. The extension will not be granted except in exceptional circumstances. Should, however, deliveries be made after the expiry of the contracted delivery period, without prior concurrence of the purchaser and be accepted by the consignee, such delivery will not deprive the purchaser of his right to recover liquidated damage. If the supplier fails to complete the entire work including delivery, installation, and making operational the entire NICNET/WAN setup in TDB within the stipulated time of 3 Months, a penalty @0.5% per week of delay will be imposed subject to a maximum of 10% (percent) of the value of delayed goods. The LD cannot exceed the amount stipulated in the contract.

Provided, also that if the contract is terminated under this clause, the TDB shall be at liberty to take over from the supplier at a price to be fixed by the purchaser, which shall be final, all unused, undamaged, and acceptable materials, bought-out components and stores in course of manufacture which may be in possession of the Supplier at the time of such termination or such portion thereof as the purchaser may deem fit, except such materials, bought out components and stores as the Supplier may with the concurrence of the TDB elect to retain.

(21) MAKE IN INDIA (MII) Compliance:

The Make in India (MII) Compliance will be applicable for the class-I and Class-II local suppliers as per the order of the Ministry of Commerce and Industry and Internal Trade, dated 16th September 2020, and subsequent orders. The Min. local content requirement is not less than 20-25 % for Active and Passive Components.

(22) ARBITRATION:

All disputes or differences arising out of or in connection with the contract shall be settled by bilateral discussions. If any dispute cannot be settled by mutual discussions within thirty days an independent arbitrator shall be appointed on consent of both parties. The arbitration proceedings shall be held under the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time. The arbitration proceedings shall be in English and the venue of arbitration shall be Delhi. Any dispute arising out of this Contract shall be referred to TDB.

This Contract shall be governed by, and construed in accordance with, the laws as in force in India, and courts at New Delhi shall have exclusive jurisdiction over all disputes arising under, pursuant to, and/or in connection with this Contract.

(23) FORCE MAJEURE:

Neither party shall, in any event, be liable for any failure to perform its obligations under this Agreement due to any event beyond the reasonable control of either party or any event of force majeure. The decision of TDB shall be final in this regard.

- a. Notwithstanding the provisions stated above, the Service Provider shall not be liable for forfeiture of its performance security, penalty, or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- b. For purposes of this clause, —Force Majeure means an event beyond the control of the Service Provider and not involving the Service Provider 's fault or negligence and not foreseeable. Such events may include but are not be limited to, acts of God, wars, revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c. If a —Force Majeure situation arises, the Service Provider shall promptly notify the TDB in writing of such conditions and the cause thereof. Unless otherwise directed by the TDB in writing, Service Provider shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the —Force Majeure event.
- d. Time for performance of the relative obligation suspended by —Force Majeure shall then stand extended by the period for which such cause lasts.

Any studies report or other material, data or information otherwise prepared by the contractor for TDB under the contract will remain the property of TDB, Department of Science and Technology.

General Terms & Conditions:

- Bidder should read the terms and conditions of the tender carefully and comply strictly while submitting the proposal.
- TDB has reserved the right to cancel the proposal without any information or reason.
- Non-acceptance/non-confirmation for the above-required aspects shall be liable for rejection of the bid.
- The qualified bidder is responsible to deliver the Active and Passive components in time and installation and completion of the project as per the Cybersecurity guidelines of Govt. of India
- Delivery of the items, installation, and successful completion of the aforesaid project should be in the timeline.
- Necessary approvals for digging and installation of overhead/underground cables shall be
 done through the respective agencies and obtaining all necessary certificates from
 OEMs/agencies is the responsibility of the service provider/contractor including the cost
 involved.
- Identifying and executing training requirements along with preparation of the User Manual will be the responsibility of the service provider/contractor including the cost involved.
- Bidder shall hand over the compliance manual, diagrams, configurations, and credentials to TDB before realizing the final payment and settlement, etc. It will be the responsibility of the service provider/contractor including the cost involved.
- TDB may in its absolute discretion, but without being under any obligation to do so, update, amend, or supplement the information, assessment, or assumptions contained in this Scope of Work
- The bidders shall ensure that financial proposals should include the cost of the Active and passive components, CMAC, Warranty, GST, etc. The cost of the Fiber/UTP and laying conduits/PVC Channels will be as per actual usage in this project. The same will be adjusted in the final payment with the approval of the Competent Authority/Finance.

Bid Particulars:

- The bidder shall bear all costs associated with the preparation and submission of the bid, attending bid meetings and visiting sites, if required, and or any other locations in connection with bidding and TDB will in no case be responsible or liable for these costs regardless of the conduct or outcome of the bidding process.
- It will be imperative for each bidder to familiarize with all local conditions and factors, which may have any effect on the execution of work covered under the bid document.
- It must be ensured that the above factors have been properly studied and considered while submitting the bid. No claim for financial or any other adjustments to contract price, on account of lack of clarity of such factors, shall be entertained
- The bidder is required to examine carefully all instructions, conditions, forms, terms, and conditions, given in the bid document. Failure to furnish any information required by the bid document or not responsive to the requirements of the bid documents will be at the bidder's risk and may result in the rejection of the bid document.

• All questions and clarifications relating to the bid shall be addressed to the following officials

by letter/e-mail:

To

The Under Secretary,

Technology Development Board,

Block-II, 2rd Floor, Technology Bhawan, Mehrauli Road, New Delhi. Pin 110016

Phone: 011-26511184,

Email Address: officeassit12@tdb.gov.in

Website: https://www.tdb.gov.in/

The deliverables for establishing NICNET Connectivity to the TDB project represent the tangible outputs and results that are expected upon completion of the development process as per the scope of the work. These deliverables can vary depending on the scope and requirements of the project, but typically include the following:

- **Project Plan**: A comprehensive project plan outlining the scope, timeline, milestones, resources, and responsibilities involved in establishing NICNET connectivity as per the Cybersecurity guidelines of Govt of India.
- **Design Mock-ups**: Visual representations (wireframes, mock-ups, prototypes) of the NICNET connectivity, structure, and user acceptance design.
- **Hardware/Software**: All hardware and software involved in this project are to be included as per the scope of the work, organized and formatted according to the site's design and structure.
- **Architecture**: A detailed architecture or sitemap outlining the hierarchical structure and navigation flow of the connectivity details, including all pages and content sections.
- Comprehensive documentation including user manuals, technical specifications, guidelines, and any other relevant documentation needed for network maintenance, administration, and future updates after making the NICNET accessibility features, etc.
- **Training**: Training sessions or materials for network administrators on how to manage and operate the connectivity and perform other administrative tasks should be provided by the agency.
- **Deployment and Launch**: Establishment of NICNET connectivity from NIC-HQ INOC server to TDB and launch to the users of TDB, including accessing e-Governance applications like e-Office, Sparrow, PFMS, and other Govt. Schemes/websites over the deployed NICNET connection with Cyber Security Guidelines.
- **Handover and Closure**: Formal handover of all project deliverables, documentation, and assets to the client, along with any necessary training or transition support, and closure of the project according to established procedures and timeline given in the Annexure A.

These deliverables collectively ensure the successful completion and delivery of the NICNET connectivity project, meeting the client's requirements, objectives, and expectations while adhering to industry best practices and standards as well as strict adherence as per the contract agreement.

Active and Passive Components: Network Router, Fiber Cables, UTP/Fiber Patch Cables, TCP/IP Transmission Protocols, Cloud Network services, NICNET Services, e-Governance Applications accessibility and Cyber Security guidelines of NIC, Cert-In, MHA etc for Internet and Intranet purposes as per the Scope of Work.

Project Completion Timelines:

Annexure-A

S.No.	Milestones	Time allowed (from the date of
		award of
		contract) in days
1	Requirement gathering and finalization	T+10 Days
2	Delivery of Active and Passive	T+60 Days
	Components as per the scope of work	1+00 Days
3	Installation, Manual/Trenchless Digging	T+15 Days
4.	Completion and Testing	T+15 Days
4	Go Live	T+100 Days
5	Stabilization	T+110 Days

Payment Milestones in the case of NICSI.

S.No.	Milestones	Cost
1	Delivery of Active and Passive Components as per the scope of work	40%
3	Installation, Manual/Trenchless Digging, and handover.	60%
4.	Performance Guarantee – After one Year + 2 Months (as mentioned in Tender).	10 %

TECHNICAL BID

(Weightage: 70%)

Tech	Technical specifications for Active Components (Route 2) ANNEXURE-I					
	Active Components					
S.No	Item Description	Description	Qty	Brand Name/ Model No.	Brochure / Literatur e attached (Y/N)	Compliance (Y/N)
1	Router	Router 1RU w/10G WAN (1SM slot and 1 NIM slot and 2 x10 Gigabit Ethernet and 4x1 Gigabit Ethernet port Redundant power supply 3 years onsite warranty Onetime installation and configuration of router	1			
2	1G Single Mode Fiber Module	1000 Base LX/LH transceivers /equivalent LC connection SM	4			
3	Onsite Comprehensive Warranty and support.	Active and passive Components of the proposed Interconnectivity at TDB	3 Years			
4	Comprehensive Annual Maintenance Contract (CAMC)	Active and passive Components of the proposed Interconnectivity at TDB	2 Years			
		Year wise cost breakup for CAMC	1 st Year			
			2 nd Year			

Detail Specification of the Router

	Generic Specifications of Router				
Sl. No					
	Form Factor				
1)	The Router should be standalone/ modular and 19" Rack mountable.				
	Architecture				
2)	The Router should have sufficient RAM/DRAM/flash memory or more to support multiple software images for backup purposes, log report, route table etc for smooth functioning of the device and future scalability.				
3)	The Router should have hot swappable Redundant Power Supply.				
	Interfaces				
4)	The Router should support minimum $4 \times 1G + 2 \times 1/10G$ ports & SFP / SFP+ Modules from day 1. If require, network cards can be added to increase interfaces.				
	Protocols – Ipv4, IPv6, MPLS				
5)	The Router should have flexibility to support both Metro-Ethernet and IP/MPLS features.				
6)	The Router should support the following: OSPF, IS-IS, BGP, PIM-SM, NGMVPN/Multicast VPN, IGMP, MPLS, L2VPN, EVPN-VXLAN/BGP- EVPN, EVPN with Multi-Homing, L3VPN, Segment Routing, SRv6, BGP-LS/LU, BGP Flow Specification, VPLS, RSVP, BFD, Link and Node protection, 16 ECMP ways/paths. Should support Path computation element protocol (PCEP) for controller manged network design. IPv4 Routing, IPv6 Routing Border Gateway Protocol, Intermediate System-to-Intermediate System [IS-IS], Open Shortest Path First [OSPF]), IGMP, PIM SSM, OSPFv3 for IPv6, PTP Transparent and Primary, IEEE 1588v2 boundary clock.				
	Performance				
7)	The Router should have Wire Rate performance.				
8)	The Router should have 500k IPv4 FIB and 256K IPv6 FIB, 8k Multicast routes, 128k MAC, 500 MPLS VRF, 5 label stack depth.				
	QOS Features				
9)	Should support the Traffic Classification using various parameters: IP Precedence, 802.1p, MPLS EXP, DSCP, WRED/LLQ, Priority queuing, Traffic Conditioning: Committed Access Rate/Rate limiting, Q-in-Q, 4k VLAN.				
10)	Should support Strict Priority Queuing or Low Latency Queuing to support real time application like Voice and Video with minimum delay and jitter.				
11)	Should support 10k VoQ or 10K Hardware Queues.				
	Security				
12)	Support Access Control List to filter traffic based on Source & Destination IP Subnet, Source & Destination Port, Protocol Type (IP, UDP, TCP, ICMP etc.), Port Range, URPF				
13)	The Routers should support IETF Netflow-v9 or sFlow or equivalent feature.				
14)	The Router should support multiple multi-level privilege levels for remote access (e.g. console, ssh, telnet)				
	Debug, Alarms & Diagnostics				
15)	Should support Display of input and output error statistics on all interfaces.				
16)	Should support Display of Input and Output data rate statistics on all interfaces.				
17)	Should support PCEP, Secure boot, Zero Touch Provisioning (ZTP), TWAMP and Netconf / RESTConf, telemetry support				
10)	Management				
18)	Should support latest version of Secure Shell for secure connectivity.				
19)	Embedded RMON support for four groups – history, statistics, alarms and events or Telemetry / SNMP				
20)	Event and system history logging functions should be available.				
21)	Router should support operating temperature ranging 0 (or lower) to +40 (or higher) degree centigrade, relative humidity: 10% to 85% non-condensing				
22)	Configuration Roll Back to recover the mis-configured Equipment to last good configuration.				
22)	Warranty & Support				
23)	3-year warranty support from the date of delivery.				

Technical Specifications for Passive Components

ANNEXURE-I

Passive Components
Laying of Fiber Optic Cable over existing cable tray installed on old DST building (Route-2)

S.No	Item Description	Description	Qty	Brand Name/ Model No.	Brochure / Literatur e attached (Y/N)	Compliance (Y/N)
1	Supply of Fiber Optic Outdoor armored cable (OS2)	Supply of Fiber Optic Outdoor armored cable (OS2), Single Module (SM 10G, 6 Core.	700 Mtr.			
2	Supply of CAT-6A UTP Patch Cord 3 Ft.	CAT-6A UTP Patch Cord 3 Ft.	5			
3	1/10G Fiber Optical Cable – 3-meter length	Supply of Fiber Optical Patch Cord, SM, LC-LC 3-meter length	4			
4	Supply of optical fiber pigtails - SM-LC	Supply of optical fiber pigtails SM-LC type 1 meter	12 Nos.			
5	Supply of PVC conduit of OD size, 32 MM	Supply of PVC conduit of OD size, 32 MM	300 Mtr.			
6	Supply of 40MM diameter HDPE PVC jacket	Supply of 40MM diameter HDPE PVC jacket for underground/surface.	200 Mtr.			
7	Supply of GI Pipe 50MM	Supply of GI pipe underground and on surface, 50MM	50 Mtr.			
8	Supply of Armoured Flexible Pipe	Supply of Armoured Flexible Pipe of OD SISE (per meter) 40MM	30 Mr.			

Services: - Laying of Fiber Optic cable over existing cable tray installed on old DST building (Route-2)

S.No	Item Description	Description	Qty	Brand Name/ Model No.	Brochure / Literatur e attached (Y/N)	Complia n ce (Y/N)
1	Outdoor/indoor Laying of Fiber Cable	Outdoor/indoor Laying of Fiber Cable (per/meter)	700			
2.	Fusion splicing of LC type pigtails	Fusion splicing of LC type pigtails	12 Nos.			
3.	Performance testing for laid Fiber optic Cable	Performance testing of laid Fiber optic Cable for continuity, length @db loss (OLTS Test Report) as per ANSI/TIA-455-60 dicynebt fir FI test procedures & documentation of the results.	12			
4.	Installation of PVC conduit.	Installation of PVC conduit of OD size 32 mm	300 Mtr.			
5.	Installation of 40 MM diameter HDPE PVC jacket	Installation of 40 MM diameter HDPE PVC jacket underground/surface.	200 Mtr.			
6.	Installation of GI Pipe	Installation of GI Pipe	50 Mtr.			
7.	Installation of Armoured Flexible Pipe	Installation of Armoured Flexible Pipe OD size (per meter) 40MM	30 Mtr.			
8.	Installation of Fiber Optics cable route marker	Installation of Fiber Optics cable route marker per/unit	6 Mtr.			
9.	Excavation and Resurfacing	Excavation and resurfacing of the soil/concrete (depth 1 mtr)	150 Mtr.			
10.	Project Management	Service-related Project Management	1			
11	Fiber Patch cord 10 Mtr. (OM4)	Fiber Patch cord 10 Mtr. (OM4)	2 Nos.			
12	Copper Patch cord 10 Mtr.	Copper Patch cord 10 Mtr.	2 Nos.			

Detailed Specifications for 10G SM/1G MM fibre Module					
Sr.	Compliance (Yes/No/Remarks)				
	SFP Transceivers 1G SM	SFP+ Transceivers/Modules should be supplied from the same OEM/make of the switches only			
1		SMF - Media Type, Wave length-1310nm, Min. Data rate 1 Gbps			
		Connector LC Type			

	Criteria for the Passive Components of OEM					
Sr No.	Details	Compliance s (Y/N)	Remarks			
1	OEM should be ISO 9001:2015 & ISO 14001:2015 Certified.					
2	All networking passive material (Fibre) shall be from same OEM preferably.					
3	Material should have been manufactured in OEM's own manufacturing facilities.					
4	The OEM of passive components to be quoted by the bidder should be present in India from at least 10 years. (Details must be provided).					
5	There should be minimum 25 years application assurance warranty as a part of certification of entire installed cable plant.					
6	The vendor /OEM should provide test reports generated from any testing software/ device for minimum 5000 nodes in support of experience to executing such requirement of margin (6 dB or higher) for Cat 6 of NEXT (worst case) for entire frequency range specified in ISO/IEC 11801.					
7	OEM shall have minimum of two BICSI-RCDD (Registered Communication Distribution Designer) certified personal sitting in India whose services can be utilized during the project. Certificate and HR letter from OEM to be submitted along with the bid as proof of the person being on OEM payrolls and sitting in India.					
8	All passive components should be RoHS complied. Declaration of – ROHS compliant should clearly be mentioned on data sheets of each Passive Components, or a separate RoHS declaration must be submitted.					

Technical Specifications for 6 Core SM Fiber Dry Multi Tube with CSA FRLSZH Jacket Outdoor Fiber Cable:

Sr. No.	Specifications	Compliance [Y/N]	Remarks
1	Fiber Cable Shall be 6F Single mode Outdoor ECCS armor, DRY Core, FRLSZH, Stranded Loose Tube Cable		
2	Jacket Material Shall be FRLSZH		
3	Cable Jacket shall be compliant to IEC 60332-3, IEC 60794-1		
4	Number of Tubes shall be 1 Tube + 5 Fillers		
5	Number of Fibers per Tube shall be 6 Fibers		
6	FIBER SIZE shall be 9/125/250		
7	Fiber Shall be bend insensitive Single mode, compliant to ITU-T G652 D and G.657.A1.		
8	Cable Jacket shall be UV Stabilized		
9	Attenuation Shall not be more than: ≤ 0.34 @ 1310 nm, ≤ 0.22 @ 1550 nm		
10	Fiber Construction shall be: Gel Free with FRP Rod, Glass Yarns, ECCS Armor with more than 0.15 mm thickness		
11	Overall Nominal Diameter shall not be more than 14mm		
12	Tensile Strength shall be 2500N or better		
13	Compression Strength shall be 2700N or better		
14	Operating Temperature shall be -20°C to +70°C		
15	Fiber Application: Designed for use in the applications like Backbone cabling, Campus site cabling, Indoor and Outdoor Ducts or Direct Burial, Aerial applications		
16	Standard Compliance: EN 50173; ISO/IEC 11801; EN 187105, ANSI/TIA-568-C.3, Telcordia GR-20 & GR-409,RoHS 2002/95/EC.		

Technical Specifications for 19" Rack Mount LC Fiber Panel with 12/24 Fiber Adaptors

Sr. No.	Specifications	Compliance [Y/N]	Remarks
1	Fiber Shelf shall have Provision for 12/24 fiber with LC Type single mode adaptors.		
2	Fiber Shelf shall have all accessories including coupler plates pre-loaded with duplex LC couplers single mode		
3	Shall be Front Patching Type, 1U high for 12/24 fiber and rack mountable on standard 19" rack with mounting arrangements		
4	Shall be supplied with fusion splicing sleeves for termination of fiber.		
5	Shall be made of powder coated steel		
6	Shall be slide-out type drawer enclosure for Easy access to splicing tray, Easy access to back side of the connector and have labels for better identification		
7	Shall have trays with hinges (book type) which allows facilitates easy Fiber management and greater access during installation and rework		
8	Shall have all necessary accessories for fiber management inside such as Fiber guides, radius controls & secure tie downs within the FOPP		

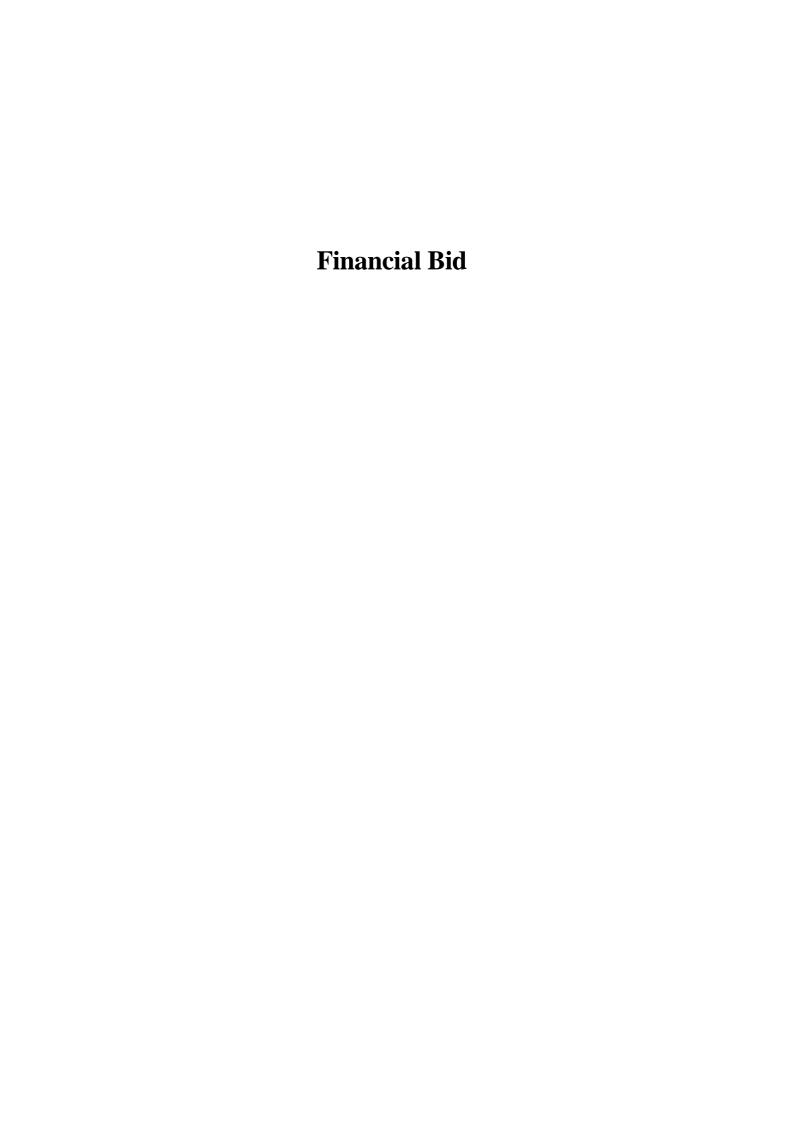
Technical Specifications for Low Loss-LSZH LC Fiber Pigtail

Sr. No.	Specifications	Compliance [Y/N]	Remarks
1	Pigtail shall conform to ANSI/TIA-568. 3-D, ANSI/ICEA S-83-596, Telcordia GR-409		
2	Pigtail shall be Dual Rated LSZH/Riser		
3	Pigtail shall be LC/UPC to connectorized		
4	Fiber Shall be bend insensitive complied to G.657.A1		
5	LC Connector colour shall be Blue		
6	Connector Ferrule material shall be Zirconia		
7	Insertion loss less not be more than 0.25 dB		
8	Minimum return loss shall be 55 dB		
9	Cable Shall be ETL Listed		
10	Shall be RoHS Compliant		
11	Shall be LSZH and Riser rated Compliant with IEC 60332-3, IEC 60754-2 and IEC 61034-2, UL 1666, UL 1685		
12	Overall jacket diameter shall be maximum 0.9 mm.		

Technical Specifications for LC-LC FIBER PATCH CORDS

S. No.	Specifications	Compliance (Y/N)	Remarks
1	The patch cord shall be single mode fiber complying to G.652.D, G.657.A1.		
2	The fiber cable jacket shall be LSZH complying to IEC 60332-3		
3	The connector material shall be pre-radiused Zirconia.		
4	The insertion loss shall not exceed a maximum of 0.34. dB and a minimum return loss of 50.0 dB		
5	The fiber patch cord shall comply to ANSI/TIA 568 C.3 standards.		
6	The patch cord shall be RoHS 2011/65/EU compliant		
7	Both connectors of the patch cord shall be LC type		

Note: TDB will invite firms/agencies for the presentation. Firms are requested to make a presentation on the understanding of the scope of work, similar work experience, Turnover, and specifications provided in the above annexures in the technical bid.



Fina	Financial format for Active Components (Route 2)					EXURE-II
	Active Components					
S.No	Item Description	Description	Qty	Unit Pric e	Tax/GST	Total Price
1	Router	Router 1RU w/10G WAN (1SM slot and 1 NIM slot and 2 x10 Gigabit Ethernet and 4x1 Gigabit Ethernet port Redundant power supply 3 years onsite warranty One-time installation and configuration of router	1			
2	1G Single Mode Fiber Module	1000 Base LX/LH transceivers /equivalent LC connection SM	4			
3	Onsite Comprehensive Warranty and support.	Active and passive Components of the proposed Interconnectivity at TDB	3 Years			
4	Comprehensive Annual Maintenance Contract (CAMC)	Active and passive Components of the proposed Interconnectivity at TDB	2 Years			
		Year wise cost breakup for CAMC	1 st Year			
			2 nd Year			
					Total (A):	

Finar	Financial Format for Passive Components				ANNEX	URE-II
	Passive Components					
S.No	Item Description	Description	Qty	Unit Pric e	Tax/GST	Total Price
1	Supply of Fiber Optic Outdoor armored cable (OS2)	Supply of Fiber Optic Outdoor armored cable (OS2), Single Module (SM 10G, 6 Core.	700 Mtr.			
2	Supply of CAT-6A UTP Patch Cord 3 Ft.	CAT-6A UTP Patch Cord 3 Ft.	5			
3	1/10G Fiber Optical Cable – 3 meter length	Supply of Fiber Optical Patch Cord, SM ,LC-LC 3 meter length	4			
4	Supply of optical fiber pigtails - SM-LC	Supply of optical fiber pigtails SM-LC type 1 meter	12 Nos.			
5	Supply of PVC conduit of OD size, 32 MM	Supply of PVC conduit of OD size, 32 MM	300 Mtr.			
6	Supply of 40MM diameter HDPE PVC jacket	Supply of 40MM diameter HDPE PVC jacket for underground/surface.	200 Mtr.			
7	Supply of GI Pipe 50MM	Supply of GI pipe underground and on surface, 50MM	50 Mtr.			
8	Supply of Armoured Flexible Pipe	Supply of Armoured Flexible Pipe of OD SISE (per meter) 40MM	30 Mr.			
					Total (B):	

Financial format for Service Components

ANNEXURE-II

Service Charges for: - Laying of Fiber Optic Cable over existing cable tray installed on old DST building (**Route-2**)

S.No	Item Description	Description	Qty	Unit Pric	Tax/GST	Tota l
				e		Pric e
1	Outdoor/indoor Laying of Fiber Cable	Outdoor/indoor Laying of Fiber Cable (per/meter)	700			
2.	Fusion splicing of LC type pigtails	Fusion splicing of LC type pigtails	12 Nos.			
3.	Performance testing for laid Fiber optic Cable	Performance testing of laid Fiber optic Cable for continuity, length @db loss (OLTS Test Report) as per ANSI/TIA-455-60 dicynebt fir FI test procedures & documentation of the results.	12			
4.	Installation of PVC conduit.	Installation of PVC conduit of OD size 32 mm	300 Mtr.			
5.	Installation of 40 MM diameter HDPE PVC jacket	Installation of 40 MM diameter HDPE PVC jacket underground/surface.	200 Mtr.			
6.	Installation of GI Pipe	Installation of GI Pipe	50 Mtr.			
7.	Installation of Armoured Flexible Pipe	Installation of Armoured Flexible Pipe OD size (per meter) 40MM	30 Mtr.			
8.	Installation of Fiber Optics cable route marker	Installation of Fiber Optics cable route marker per/unit	6 Mtr.			
9.	Excavation and Resurfacing	Excavation and resurfacing of the soil/concrete (depth 1 mtr)	150 Mtr.			
10.	Project Management	Service-related Project Management	1			
11	Fiber Patch cord 10 Mtr. (OM4)	Fiber Patch cord 10 Mtr. (OM4)	2 Nos.			
12	Copper Patch cord 10 Mtr.	Copper Patch cord 10 Mtr.	2 Nos.			
					Total (C):	
					and Total (A+B+C):	

T-4-1: 1 (,
Total in words: (

Annexure B

MANUFACTURER AUTHORISATION LETTER FROM OEM

For Active and Passive network equipment's for Local Area Networking

We M/s. having registered office by virtue of being Manufacturer of Active/Passive network
equipment's for establishing NICNET connectivity at TDB.

I hereby authorize M/s	(Bidder Name), having their office at
(Bidder office address)	Is an authorized reseller of (OEM) Active /Passive
network equipment's for establishing NI	ICNET connectivity at TDB and is entitled to submit
quote, negotiate, supply install and provide	e after sales support for a period 5 years for our range of
products quoted by them to meet the above	e-mentioned tender requirements.
M/s within the scope of requirement as per	the tender mentioned above through its authorized
partner M/s Sha	ll provide supply, installation support & product
warranty services in TDB as per tender cla	use.
The undersigned is authorized to issue such	h authorization on behalf of M/s
	You're sincerely,
	For M/s
	Signature Company Seal
	Name:
	Designation:
	Date:

Annexure C

BID SECURING DECLARATION FORMAT

To, The Under Secretary, Technology Development Board (TDB) Technology Bhawan Campus Mehrauli Road New Delhi – 110016	
Subject: Bid Securing Declaration Format towards tender enq	uiry No
Dear Sir,	
On behalf of, an AUTHORIZED DEALER INVESTIGATOR, I/We hereby submit a bid securing declaration a modify our Bids during the period of validity, or if we are awarded the contract, we can be suspended for a period of two years from be contracts with the TDB. As per the amendment of GFR 2017 Rule No.170 (i), Bid securing also be submitted by the participant bidders on their organization leads to the contract of the contra	accepting that if we withdraw or I the contract and we fail to sign eing eligible to submit Bids for declaration in lieu of EMD shall
	You're sincerely,
	For M/s
	Signature Company seal
	Name:
	Designation:
	Date:

Annexure D

I/We	have visited the actual site of project implementation on		
On behalf of M/s	. I am/We are completely aware of the Building		
Structure, existing Network	Γopology and site conditions.		
I declare that I will be able to	of finish the bids within the deadline as per the requirement of TDB.		
I also accept all the terms and	d conditions of tender document.		
	(Signature of the Bidder)		
	Name:		
	Date:		
Place:			
Date:			

CONTACT DETAILS

S. No.	Particulars	Details
1.	Company Name	
2.	Registered Office Address	
3.	Corporate Office Address (if different)	
4.	Contact Person Name	
5.	Designation	
6.	Phone (Landline)	
7.	Mobile	
8.	Email	