

Government of West Bengal
District e-Governance Society
Office of the District Magistrate
New Administrative Building,
Barasat, North 24 Parganas, Pin - 700124

TENDER DOCUMENTS

For

**Supply and installation of LAN EQUIPMENTS alongwith accessories For
District e-Governance Society, North24 Parganas**

NIT No. G-16011(13)/1/2013-GEN/146331

Date : 9/11/2017

NAME & ADDRESS OF THE BIDDER	
TENDER FEE DD NO.	
NAME WORKS	

NAME OF WORK

Supply and installation of LAN EQUIPMENTS alongwith accessories

Earnest Money : 5000/- [Rupees Five Thousand Only]

Tender Fee : 500/- [Rupee Five Hundred only]

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Read, understood & complied With Signature of the
Tendered

**Government of West Bengal
District eGovernance Society
Office of the District M a g i s t r a t e
New Administrative Building
Rishi Bankim Sarani, Barasat
North 24 Parganas**

NOTICE INVITING TENDER

NIT No. G-16011(13)/1/2013-GEN/146331

Dated: 9/11/17

Properly sealed tenders are invited from Kolkata based reputed Manufacturers/Dealers/Supplier for Supply and installation of LAN equipments along with accessories for District e-Governance Society (DeGS), North24 Parganas as shown in the annexure to Bid document, on as and when requirement basis on two envelope system.

(a) Bid has to be submitted on TWO -ENVELOPE basis; First envelope (technical Bid) should carry the filled format as per Section-II and III. Tender Cost and EMD (Earnest Money Deposit) in the form of demand draft is also to be enclosed in the Sealed Envelope-I absence of tender cost and EMD, tender will be summarily rejected.

(b) Price Proposals per Section-VII is to be enclosed in the Sealed Envelope -II.

1. Period of contract : Initially for One year from the date of award of work which may be extended for another period of one year subject to mutual consent of both parties.

2. EMD : Rs.5000/- (Rupees Five thousand only).

3. Mode of payment : Tender document could be purchased by paying cost of bid document Rs.500/- either in cash payable at cash counter or crossed DD drawn in favour of 'The Chairman, District e-Governance Society, North 24 Parganas' payable at Kolkata OR can be downloaded from www.north24parganas.gov.in in which case, the cost of the tender documents of Rs.500/- is required to be paid in the form of crossed DD drawn in favour of "The Chairman, District e-Governance Society, North 24 Parganas" and enclosed to the tender documents. EMD is to be paid in the form of Crossed Demand Draft issued by a scheduled bank, drawn in favour of 'The Chairman, District e-Governance Society North 24 Parganas'.

4. Tender documents : The Chairman, District e-Governance Society, North 24 Parganas.

5. Time & last date of Submission of Bid : 22.11.2017 at 03:00 HRS.

6. Time & Date Bid opening : 22.11.2017 at 04:00 HRS.

7. It is mandatory that the intending tenderer shall be able to supply all the items put to tender and hence they have to quote for all the items, failing which the tender is liable for rejection.

8. The tender, which is not accompanied by the requisite EMD, shall be summarily rejected. Tender will not be accepted/ received after expiry date & time.

9. The rate should be exclusively for 'The Chairman, District e-Governance Society, North 24 Parganas'.

10. The technical/ commercial bids should be in two separate sealed covers clearly marked as 'TECHNICAL BID' and 'COMMERCIAL BID'. The bid has to be accompanied by an Earnest Money Deposit (EMD) of Rs.5000/- (Rupees Five Thousand only) in the form of a crossed demand Draft in favour of 'The Chairman, District e-Governance Society, North 24 Parganas', Payable at Kolkata.

➤ The TECHNICAL BID should include the name and address of the agency / company, annual turnover, details of past experience and the offices where they have been performing such duties along with the supporting documents /certificates. Technical Bids should not contain any commercial quotes.

➤ The COMMERCIAL BID should contain rate against each item separately.

➤ Technical and Commercial bids should be in clear words, categorically mentioning each and every terms. Any kind of ambiguous/obscure/unclear terms would lead the tender's bid being disqualified.

➤ Technical bids will be opened first to evaluate the technical specifications provided by the bidders as mentioned in the tender, there after commercial bids of only technically qualified bidders will be opened. Bids declared as technically disqualified will be rejected.

11. The rates quoted should be legible. Pencil entries and over written entries shall be rejected.

12. The offers which do not conform to the conditions laid down in the tender notice shall not be considered.

13. The Chairman, District e-Governance Society, North 24 Parganas reserves the right to disqualify such bidders who had a record of not meeting the contractual obligations against earlier contracts entered into with the authority.

14. The Chairman, District e-Governance Society, North 24 Parganas may also change or extend the date and time of opening of the tender without assigning any reason whatsoever.

15. The Chairman, District e-Governance Society, North 24 Parganas reserves the right to reject any/or all the quotation(s) received without assigning any reason thereof.


16. Chairman, District e-Governance Society, North 24 Parganas reserves the right to increase / decrease the scope of work of the Tender.

17. Tender evaluation will be done on the basis of the grand total of the rate quoted against all the items.

18. Rate Contract of all the items mentioned in section VII of bid document will be valid for all departments/sections under District Magistrate, North24 Parganas during period of contract.

19. Rates quoted should be in Indian currency and should be inclusive of all charges, Taxes, including service tax, Duties etc. as applicable. Any ambiguous quote on these accounts shall render the tender liable to be rejected. Tenders not complete in all respect are liable to be rejected.

20. Any corrigendum or update related to this tender will be published in North 24 Parganas the district website <http://north24parganas.gov.in> only. Bidders are requested to visit the North 24 Parganas district website regularly for any corrigendum/update regarding this tender.


**Additional District Magistrate (General)
&
Secretary, District e-Governance Society
North 24 Parganas**

NO.

Copy forwarded for information and wide circulation to:-

1. The AEO, Zilla Parishad, Zilla Parishad, North 24 Parganas.
2. The DL&LRO, The District Cashier, North 24 Parganas.
3. The OC, IT, North 24 Parganas.
4. The NDC to place the tender in the Notice Board of Nezarath Section
5. The DIO, NIC to host in the district website 'http: // north24parganas.gov.in'.
6. The DNO, NREGS, North 24 Parganas.
7. The DPO, SSA, North 24 Parganas.
8. The CA to the DM, North 24 Parganas.
9. The CA to the ADM (G)/ ADM (LR) / ADM (T), North 24 Parganas.


**Additional District Magistrate (General)
&
Secretary, District e-Governance Society
North 24 Parganas**

SECTION-II

BID FORM

To

**The Chairman
District eGovernance Society New
Administrative Building Rishi
Bankim Sarani, Barasat North 24
Parganas
Kolkata-124**

Sir,

Having examined the conditions of contract & specification including addenda No..... the receipt of which is hereby duly acknowledged, I/we the undersigned, offer for **Supply and Installation of LAN EQUIPMENTS alongwith accessories For District e-Governance Society, North24 Parganas** in conformity with, conditions of contract & specification.

We undertake, if our Bid is accepted, to execute the work in accordance with specifications, time limits, terms & conditions stipulated in the tender document.

If our Bid is accepted, we shall submit the securities as per the conditions mentioned in the contract. We agree to abide by this Bid for a period of 120 days from the date fixed for Bid opening (Qualifying Bid) and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a format Agreement is prepared & executed, this Bid together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

Bid submitted by us is properly sealed & prepared so as to prevent any subsequent alteration & Replacement.

Dated this day of.....

Signature of Authorized

Signatory.....

In the capacity of.....

Duly authorized to sign the Bid for and on behalf of

Read, understood & complied with
Signature of the Tendered

SECTION-III
TENDERER'S PROFILE

1. Name of the Tenderer/firm (In Block Letters) _____
2. Name of the person submitting the tender Shri/Smt. _____ (In case of Proprietary/ Partnership firms, the tender has to be signed by Proprietor/Partner only, as the case may be)

3. Address of the Tenderer/firm

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

4. E-mail Address

5. Telephonic details

- a) Office : _____
b) Mobile : _____
c) Fax) : _____
d) STD Code : _____

6. Registration & incorporation particulars of the firm:

- a) Proprietorship
b) Partnership
c) Private Limited
d) Public Limited

(Please attach attested copies of documents of registration/incorporation of your firm with the competent authority as required by business law)

7. Name of Proprietor /Partners/ Directors.....
.....

8. Income Tax Registration / PAN, Professional Tax

(Copy of IT registration / PAN card, latest Professional Tax clearance certificate, ITR of last 3 (three) Assessment years need to be attached)

.....

9. GST Registration :

(Copy of GST Registration Certificate [Goods & Services] and latest VAT/GST return which ever applicable need to be attached)

10. Trade License :

(Copy of latest Certificate need to be attached)

11. Testimonials of at least two (2) State Govt. / Central Govt. / State Govt. UT/ Central Govt. UT. / Govt. Autonomous body regarding their satisfactory performance of similar contract for supply and installation of LAN equipments and similar type of business in last 5 years.

12. Annual Turn Over of last three Financial Year (Audited Balance Sheet need to be attached) :

13. Details of Infrastructure

14. Make and Model No of items quoted in Section VII as per specification in Annexure-I.

15. Authorization from OEM for item quoted with sl no 01 & 02 in Section VII.

Note: In the absence of any of the aforesaid documents, the bids may not be accepted the discretion of **The Chairman, District e-Governance Society, North 24 Parganas.**

I/We hereby declare that the information furnished above is true & correct.

Place:

Date:

Signature of tenderer/Authorized signatory.....
Name of the tenderer.....

Read, understood & complied with
Signature of the Tenderer

SECTION-IV

Instructions to Bidders

Submission of Proposals (Methodology)

The Proposal shall be submitted in two separate envelopes – Part-I covering the Technical, Commercial (except cost of the items) and Qualification aspects hereinafter referred to as 'Technical Proposal' and Part II covering only the price schedules hereinafter referred to as the 'Price Proposal'. The two parts should be in two separate covers, each super-scribed with the name of the Project (Proposal for Procurement of items specified in the notice above well as "Technical Proposal" and "Price Proposal" as the case may be.

Documents comprising the Technical Proposal Envelope, should:

- (a) Comply with the TCC (Section-V)
- (b) Be accompanied by duly filled in Proposal Form (Section-II) and (Section-III) the forms must be duly signed by the vendor;

Any Technical Proposal not containing the above will be rejected.

Any Technical Proposal containing any price information will be rejected.

Documents comprising Price Proposal Envelope should be:

- (a) Full Price Schedule of the Goods and/or System and/or Services Schedule of rates (Section-VII). Each copy of the Proposal should be in two parts, as mentioned below.

The vendors shall seal the "Technical Proposal" and "Price Proposal" separately and the same shall:

- (i) be addressed to the Chairman, District eGovernance Society, North 24 Parganas at the address given; and
- (ii) bear the Name **Supply and Installation of LAN EQUIPMENTS alongwith accessories For District e-Governance Society, North24 Parganas "** .

(Strike out whichever is not applicable)

Proposals must be received by **District eGovernance Society, North 24 Parganas** at the address specified, no later than the date & time specified in Request for Proposal.

SECTION-V

TERMS & CONDITIONS OF CONTRACT (TCC)

1. Definitions

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

- (a) "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the DeGS-N24P;
- (b) "The DeGS-N24P" means District eGovernance Society, North 24 Parganas;
- (c) "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Purchase/Job Contract;
- (d) "TCC" means the Terms and Conditions of Contract contained in this section;
- (e) "The Supplier" or "the Vendor" means the individual or firm supplying or intending to supply the Goods and Services under this Contract; and
- (f) "The Project Site" means various branches/Administrative offices of District Magistrate, North 24 Parganas.

2. Country of Origin

- 2.1 All goods and related services to be supplied under the Contract shall have their origin in eligible source countries, as per the prevailing Import Trade Control Regulations in India.
- 2.2 For purposes of this clause, "origin" means the place where the goods are produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3. Standards

- 3.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the institution concerned.

4. Use of Contract Documents and Information

- 4.1 The Supplier shall not, without the DEGS-N24P's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the DEGS-N24P in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- 4.2 The Supplier shall not, without the DEGS-N24P's prior written consent, make use of any document or information enumerated in this document except for purposes of performing the Contract.
- 4.3 Any document, other than the Contract itself, shall remain the property of the DEGS-N24P and shall be returned (in all copies) to the DEGS-N24P on completion of the Supplier's performance under the Contract, if so required by the DEGS-N24P.

5. Patent Rights

- 5.1 The Supplier shall indemnify the DEGS-N24P against all third-party claims of infringement of license agreement, patent, trademark, or industrial design, intellectual property or copy rights etc. arising from use of the Goods or any part thereof in India.

6. Performance Security

- 6.1 Within 7 days of the award of Purchase/Work order, the Supplier shall furnish to the DEGS-N24P, the Performance Security for an amount equivalent 10% of tender value / bill amount valid up to 60 days after the date of completion of performance obligations including warranty obligations. Provided that the DEGS-N24P may, having regard to the value and/or nature of the goods of the purchase contract and, at its sole discretion, waive the performance guarantee
- 6.2 The DEGS-N24P shall be at liberty to set off/adjust the proceeds of the performance security towards the loss, if any, sustained due to the supplier's failure to complete its obligations under the contract. This is without prejudice to the DEGS-N24P's right to proceed against the Supplier in the event of the security being not enough to fully cover the loss/damage.
- 6.3 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms: (a) a bank guarantee issued by a reputable bank in India, acceptable to the DEGS-N24P, in the form provided in Bid Form and Other Formats; or (b) a Banker's Cheque /Demand Draft favoring "District eGovernance Society, north 24 Parganas".
- 6.4 The performance security will be discharged by the DEGS-N24P and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty or AMC obligations under the contract.
- 6.5 In the event of any contract amendment, the Supplier shall, within 7 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for further period of 60 days thereafter. In the event of any correction of defects or replacement of defective equipment during the warranty period, the warranty for the corrected/replaced equipment shall be extended to a further period of 12 months. The performance guarantee for a proportionate value shall be extended by 60 days over and above the extended warranty period.

7. Inspection and Quality Control Tests

- 7.1 Inspection and Quality Control tests before evaluation, prior to shipment of Goods and at the time of Final acceptance is as follows:
- (i) Inspection of Goods as per quality control formats including functional testing, burn-in tests and mains fluctuation test at full load, facilities etc., as per the standards may be done at factory site of the Supplier before award of the Purchase/Work Contract, by the DEGS- N24P/DEGS-N24P's Consultants; Provided that the DEGS-N24P may, at its sole discretion, waive inspection of goods having regard to the value of the order and/or the nature of the goods and/or any other such basis as may be decided at the sole discretion of the DEGS-N24P meriting waiver of such inspection of goods.
- (ii) The inspection of the Goods is to check whether the Goods are in conformity with the technical specifications mentioned in the Invitation for Quotation or the Quotation submitted by the Supplier. The Supplier will dispatch the goods to the ultimate consignee after internal inspection/testing alongwith the Supplier's inspection report, manufacturer's warranty certificate. The DEGS-N24P/DEGS-N24P's Consultants may also carry out pre-dispatch inspection. In such a case, the entire cost of such inspection, including the board, lodging, traveling, incidental expenses of the DEGS-N24P's representatives and/or Consultants, shall totally be borne by the Supplier, for the complete duration of the inspection. Successful conduct and conclusion of pre-dispatch inspection shall be the sole responsibility of the Supplier;

- (iii) Also, the DEGS-N24P will test the equipment after completion of the installation and commissioning at the site of the installation (for site preparation, the Supplier should furnish all details to the DEGS-N24P sufficiently in advance so as to get the works completed before receipt of the equipment). Complete hardware and software should be supplied, installed and commissioned properly by the Supplier prior to commencement of performance tests;
 - (iv) The acceptance test will be conducted by the DEGS-N24P/ DEGS- N24P's Consultants or any other person nominated by the DEGS- N24P, at its option. The acceptance will involve trouble-free operation for a period to be decided by the DEGS- N24P, but not exceeding seven consecutive days. There shall not be any additional charges for carrying out acceptance tests. No malfunction, partial or complete failure of any part of hardware or excessive heating of motors attached to printers, drivers etc. or bugs in the software should occur. All the software should be complete and no missing modules/sections will be allowed. The Supplier shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the DEGS- N24P, the successful completion of the test specified. An average uptime efficiency of 98% for the duration of test period shall be considered as satisfactory; Provided that the DEGS-N24P may, at its discretion, require the Supplier to devise and conduct the acceptance test, at his own cost, in the presence of DEGS-N24P's representative(s) to establish to the satisfaction of the DEGS-N24P that the configuration/performance of the goods supplied are in conformity with the specifications laid down in the Purchase/Work contract.
 - (v) In the event of the hardware and software failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the DEGS-N24P reserves the right to get the equipment replaced by the Supplier at no extra cost to the DEGS-N24P; and
 - (vi) Successful conduct and conclusion of the acceptance tests for the installed goods and equipment shall also be the sole responsibility and at the cost of the Supplier.
- 7.2** The inspections and quality control tests may be conducted on the premises of the Supplier, at point of delivery and/or at the Goods' final destination. If conducted on the premises of the Supplier, reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors, at no charge to the DEGS-N24P.
- 7.3** Should any inspected or tested Goods fail to conform to the Specifications, the DEGS-N24P may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements, free of cost, to the DEGS-N24P.
- 7.4** Nothing stated hereinabove shall in any way release the Supplier from any warranty or other obligations under this Contract.

7.5 Manuals & Drawings

- 7.5.1** Before the goods and equipment are taken over by the DEGS-N24P, the Supplier shall supply operation and maintenance manuals together with drawings, wherever applicable, of the goods. The manuals and drawings shall be in English.
- 7.5.2** Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purpose of taking over, until such manuals and drawings have been supplied to the DEGS-N24P.
- 7.6** For the System & Other Software, the following will apply: The Supplier shall provide complete and legal documentation of hardware, all subsystems, operating systems, compiler, system software and the other software. The Supplier shall also provide licensed software for all software products, whether developed by it or acquired from others. The Supplier shall also indemnify the DEGS-N24P against any levies/penalties on account of any default in this regard.

7.7 Acceptance Certificates

- 7.7.1 On successful completion of acceptability test, receipt of deliverables, etc., and after the DEGS-N24P is satisfied with the working on the system, the acceptance certificate signed by the Supplier and the representative of the DEGS-N24P will be issued. The date on which such certificate is signed (unless otherwise provided for) shall be deemed to be the date of successful commissioning of the systems.

Training shall be conducted on the dates mutually agreed upon and within two months from the date of acceptance of supply.

8. Packing

8.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Size and weights of packing case shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

8.2 Packing Instructions: The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink with the following:

- (i) Contract No.; (ii) Supplier's Name; (iii) Consignee's Name (iv) Packing List Reference number.

9. Delivery & Documents

9.1 Delivery of the Goods shall be made by the Supplier within 15 DAYS from the date of Purchase/Work Order. The details of shipping and/or other documents to be furnished by the Supplier are specified hereunder:

- (i) 3 copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Delivery note, Railway receipt or acknowledgement of receipt of goods from the Consignee or in case of goods from abroad, original and two copies of the negotiable, clean, on-board bill of lading marked freight prepaid and two copies of non-negotiable bill of lading;
- (iii) 2 Copies of packing list identifying contents of each package; (iv) Insurance certificate;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection certificate issued by the nominated inspection agency, if any, and the Supplier's factory inspection report and Quality Control Test Certificates,

The above documents shall be received by the DEGS-N24P before arrival of Goods (except where it is handed over to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

10. Insurance

10.1 The insurance shall be in an amount equal to 100 percent of the value of the Goods from "Warehouse to final destination" on "All Risks" valid for a period not less than 1 month after installation and commissioning and issue of acceptance certificate by the DEGS-N24P.

Should any loss or damage occur, the Supplier shall – (a) initiate and pursue claim till settlement, and (b) promptly make arrangements for repair and/or replacement of any damaged item/s irrespective of settlement of claim by the underwriters.

11. Transportation

11.1 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India, transport to such place of destination in India, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price.

12. Incidental Services

12.1 The incidental services to be provided are as under:

- (a) Performance of on-site assembly and start-up of the supplied computer hardware, operating system and other software packages;
- (b) Furnishing of appropriate hardware, device drivers, system design and programming services required for development and/or maintenance of the supplied Goods; Even if the hardware is initially purchased for use with particular Operating System(s), the DEGS-N24P may, at any future date, use the hardware with any other operating system and in such cases, the Supplier shall provide the device drivers required for the hardware components in order for them to function satisfactorily in the new operating environment. In the event of such device drivers not being available, the Supplier should substitute the hardware component with another with comparable performance and having device driver software for the proposed operating system.
- (c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods and equipment;
- (d) Maintenance, repair and software updates of the supplied Goods for a period of three years after expiry of the warranty, provided, that this service shall not relieve the Supplier of any Warranty obligations under this Contract; and
- (e) Training of the DEGS-N24P's personnel at the Supplier's office or other facility, in the installation and operation of the computer hardware, utilities and all contracted software, as specified in TCC Clause 38.

13. Spare Parts

13.1 As specified in the TCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) Such spare parts as the DEGS-N24P may elect to purchase from the Supplier, provided, that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) In the event of termination of production of the spare parts:
 - (i) Advance notification to the DEGS-N24P of the pending termination, in sufficient time to permit the DEGS-N24P to procure needed requirements; and
 - (ii) Following such termination, furnishing at no cost to the DEGS- N24P, the blueprints, drawings, and specifications of the spare parts, if requested.
 - (iii) The vendor shall stock adequate spares as indented by the DEGS- N24P at their respective Zonal Offices to ensure a better uptime, at no cost the DEGS-N24P.

14. Warranty

14.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in India.

- 14.2** The minimum warranty period shall be 36 months from date of acceptance of the Goods. Provided that wherever the Goods could not be installed due to the site not being ready or for any reason attributable solely to the DEGS-N24P, the warranty shall terminate after the one month from the expiry date of warranty. The Supplier shall, in addition, comply with the performance guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with TCC Clause 7.
- 14.3** The DEGS-N24P shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 14.4** In case an equipment, peripheral or components (such as CPU, monitors, printers etc. are taken away for repairs, the vendor shall provide a similar standby equipment so that the equipments can be put to use in the absence of the originals/replacements without disrupting the DEGS- N24P's regular work. Upon receipt of such notice, the Supplier shall, with all reasonable speed, in any case not later than 2 days, repair or replace the defective goods or parts thereof, without cost to the DEGS-N24P.
- 14.5** If the Supplier having been notified, fails to remedy the defect(s) within 2 (two) days from the of receipt of such notice , the DEGS-N24P may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the DEGS-N24P may have against the Supplier under the Contract.
- 14.6** If during operation, the real Mean Time between Failures (MTBF) of any piece of equipment or component thereof does not prove to be within 70% (seventy percent) of the specified MTBF, the Supplier shall replace the unit of component with another of at least the same performance and quality, at no cost to the DEGS-N24P.

14.7 Maintenance Service:

- 14.7.1** Free on-site maintenance services shall be provided by the Supplier during the period of warranty. The vendor will enter into AMC agreement with the DEGS-N24P after the expiry of the warranty period of equipments viz. Computer Systems, Peripherals, UPS, Systems Software & other software for a period not less than 3 years after the expiry of warranty, at the discretion of the DEGS-N24P. The AMC charges should be quoted separately in the commercial bid. The rate for Annual Maintenance Contract for the hardware & peripherals supplied is to be quoted in the commercials. You may also indicate your willingness to support the hardware & related software supplied by other vendors. If so you may quote the rate for AMC of such hardware & software separately in commercial bid.
- 14.7.2** The maximum response time for a maintenance complaint (i.e. time required for Supplier's maintenance engineers to report to the installations after a request call / telegram / fax / e-mail is made or letter is written) shall not exceed 3 (Three) hours from the receipt of such communication in case the service centre is situated at the same location where the hardware/software are installed and 1 (one) day in other cases.
- 14.7.3** It is expected that the average downtime of an item will be less than half the maximum downtime (i.e. defined as number of days for which an item of equipment is not usable because of inability of the Supplier to repair it) as mentioned in the form of Technical Details. In case an item is not usable beyond the stipulated maximum downtime the Supplier will be required to arrange for an immediate replacement of the same till it is repaired. Failure to arrange for the immediate repair / replacement will be liable for penalty of Rs.500/- per day per item. The amount of penalty will be recovered from Bank guarantee or the deposit made by the Supplier, during warranty and/or annual maintenance charges and/or by lodging a claim against the Supplier, as the case may be. In the event of Deposit or Bank Guarantee amount not sufficient to set off the liability of the Supplier under this head the DEGS-N24P shall be at liberty to proceed against the Supplier for recovery of the balance as may be advised.

15. Payment

15.1 Payment shall be made in Indian Rupees, in the following manner:

- (i) On Delivery: Payment of the order value on installation and commissioning of the Hardware/Completion Job ordered, and DEGS-N24P's acceptance of the Hardware/Completion Job ordered. Wherever installation could not be carried out by the vendor due to the site not being ready even after 30 days after the last date for delivery mentioned in the Purchase/Work order, the payment would be released upon Vendor's submission of a certificate from the location concerned, duly signed (with the office-seal affixed) by the DEGS-N24P's authorities concerned that site is not ready. In such a case, the Vendor has to give an undertaking to complete installation within a week of being informed that the site is ready. As already stated, for reasons of delays in installation not attributable to the DEGS-N24P and/or in the absence of vendor submitting the certificate within the stipulated period as mentioned herein, the liquidated damages would be levied as stated above; and
- (ii) Security Deposit: 10% of the tender value/bill amount shall be deducted from the total payment and will be refunded after the expiry of Warranty.

15.2 Payment for annual maintenance charges: Not Applicable

15.3 (i) For all the payments to be made against bank guarantees, the bank guarantees shall be issued by a Scheduled Indian Bank or a Foreign bank operating in India, acceptable to the DEGS-N24P, in the format enclosed. The guarantees issued by other banks should be confirmed by a scheduled Indian Bank or a foreign bank operating in India, acceptable to the DEGS-N24P.

(ii) Bank guarantees for advance payment shall be released not later than 30 days after the date of completion of installation of the goods at their final destination.

16. Prices

Prices payable to the Supplier as stated in the Contract shall be firm and not subject to adjustment during performance of the Contract, irrespective of reasons whatsoever, including exchange rate fluctuations, changes in taxes, duties, levies, charges etc.

17. Change Orders

17.1 The DEGS-N24P may, at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

- (a) Specifications;
- (b) The method of shipment or packing; (c) the place of delivery; and/or
- (d) The Services to be provided by the Supplier.

17.2 If any such change causes an increase or decrease in the cost of, or the time required for the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within 7 days from the date of Supplier's receipt of DEGS-N24P's changed order.

18. Contract Amendments

18.1 No variation in or modification of the terms of the Contract shall be made, except by written amendment, signed by the parties.

19. Assignment

19.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the DEGS-N24P's prior written consent.

20. Subcontracts

20.1 The Supplier shall notify the DEGS-N24P in writing of all subcontracts awarded under the Contract, if not already specified in the quotation. Such notification, in the original quotation or later, shall not relieve the Supplier from any liability or obligation under the Contract. Sub-contract shall be only for bought-out items and sub-assemblies.

20.2 Subcontracts must comply with the provisions of TCC.

Delays in the Supplier's Performance

21.1 Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the DEGS-N24P.

21.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the DEGS-N24P in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the DEGS-N24P shall evaluate the situation and may, at its discretion, extend the Suppliers' time for performance, with or without liquidated damages, in which case, the extension shall be ratified by the parties by amendment of the Contract.

21.3 Except as provided in the above clause, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages, unless an extension of time is agreed upon without the application of liquidated damages.

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the Contract, the DEGS-N24P shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 1.00 percent per week or part thereof of contract price subject to maximum deduction of 10% of the delivered price of the delayed Goods or unperformed services for each week or part thereof of delay, until actual delivery or performance. Once the maximum is reached, the DEGS-N24P may consider termination of the Contract.

23. Termination for Default

23.1 The DEGS-N24P, without prejudice to any other remedy for breach of Contract, by a written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

(a) if the Supplier fails to deliver any or all of the Goods and Services within the period(s) specified in the Contract, or within any extension thereof granted by the DEGS-N24P;

Or

(b) If the Supplier fails to perform any other obligation(s) under the Contract.

23.2 In the event the DEGS-N24P terminates the Contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, Goods and Services similar to those undelivered, and the Supplier shall be liable to the DEGS-N24P for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

24. Force Majeure

24.1 Notwithstanding the provisions of TCC, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, 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.

24.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable such as acts of the Govt. in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

24.3 If a Force Majeure situation arises, the Supplier shall promptly notify the DEGS-N24P in writing of such condition and the cause thereof. Unless otherwise directed by the DEGS-N24P in writing, the Supplier 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.

25. Termination for Insolvency

25.1 The DEGS-N24P may, at any time, terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the DEGS-N24P.

26. Termination for Convenience

26.1 The DEGS-N24P, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the DEGS-N24P's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

26.2 The Goods that are complete and ready for delivery within 7 days after the Supplier's receipt of notice of termination shall be accepted by the DEGS-N24P at the Contract terms and prices. For the remaining Goods and Services, the DEGS-N24P may elect to have any portion completed and delivered at the Contract terms and prices.

27. Resolution of Disputes

27.1 The DEGS-N24P and the Supplier shall make every effort to resolve amicably by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the Contract.

27.2 If, after thirty (30) days from the commencement of such informal negotiations, the DEGS-N24P and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified herein below. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed national forum.

27.3 The dispute resolution mechanism to be applied shall be as follows:

- a) In case of Dispute or difference arising between the DEGS-N24P and a Supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. Where the value of the contract is Rs.1 Crore and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties..
- b) Arbitration proceedings shall be held at Kolkata, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English;
- c) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation, etc., of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself; and

28. Governing Language

28.1 The governing language shall be English.

29. Applicable Law

29.1 The Contract shall be interpreted in accordance with the laws of the Union of India and the Supplier

shall agree to submit to the courts under whose exclusive jurisdiction the Registered Office of the DEGS-N24P falls.

30. Notices

30.1 The following shall be the address of the DEGS-N24P and Supplier.

DEGS-N24P's address for notice purposes:

**Office of the District Magistrate
New Administrative Building
Rishi Bankim Sarani, Barasat North 24 Parganas,
Kolkata-124**

Supplier's address for notice purposes

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

30.2 A notice shall be effective when delivered or on the notice's effective date whichever is later.

31. Taxes and Duties (Sale Tax to be cleared as per price Schedule)

31.1 Supplier will be entirely responsible for all applicable present and future taxes, duties, levies, charges, license fees, road permits etc. in connection with delivery of goods at site including incidental services and commissioning. Payment of Octroi, entry-tax, alone, if applicable, will be made at actual, on production of suitable evidence of payment by the Supplier. Income / Corporate Taxes in India:

31.2 The Supplier shall be liable to pay all corporate taxes and income tax that shall be levied according to the laws and regulations applicable from time to time in India and the price bid by the Supplier shall include all such taxes in the contract price.

31.3 Wherever the laws and regulations require deduction of such taxes at the source of payment, the DEGS-N24P shall effect such deductions from the payment due to the Supplier. The remittance of amounts so deducted and issuance of certificate for such deductions shall be made by the DEGS-N24P as per the laws and regulations in force. Nothing in the Contract shall relieve the Supplier from his responsibility to pay any tax that may be levied in India on income and profits made by the Supplier in respect of this contract.

31.4 The Supplier's staff, personnel and labour will be liable to pay personal income taxes in India in respect of such of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the Supplier shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws and regulations.

32. Supplier Integrity

32.1 The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the contract using state-of-the-art methods and economic principles and exercising all means available to achieve the performance specified in the Contract.

33. Supplier's obligations

The Supplier is obliged to work closely with the DEGS-N24P's staff, act within its own authority and abide by directives issued by the DEGS-N24P and implementation activities. The Supplier will abide by the job safety measures prevalent in India and will free the DEGS-N24P from all demands or responsibilities arising from accidents or loss of life, the cause of which is the Supplier's negligence. The Supplier will pay all indemnities arising from such incidents and will not hold the DEGS-N24P responsible or obligated. The Supplier is responsible for managing the activities of its personnel or sub-contracted personnel and will hold itself responsible for any misdemeanors. The Supplier will treat as confidential all data and information about the DEGS-N24P, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the DEGS-N24P.

34. Patent Rights

In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof in India, the Supplier shall act expeditiously to extinguish such claim. If the Supplier fails to comply and the DEGS-N24P is required to pay compensation to a third party resulting from such infringement, the Supplier shall be responsible for the compensation including all expenses, court costs and lawyer fees. The Supplier shall on a mere demand by the DEGS-N24P reimburse whatever expenses incurred by the DEGS-N24P in this regard, within a period of 7 days of receipt of demand.

35. Site preparation and installation

The DEGS-N24P is solely responsible for the construction of the hardware sites in compliance with the technical and environmental specifications defined by the Supplier. The DEGS-N24P will designate the installation sites before the scheduled installation date, to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the hardware.

36. Hardware Installation

The Supplier is responsible for all unpacking, assembling, wiring, installations, cabling between hardware units and connecting to power supplies. The Supplier will test all hardware operations and accomplish all adjustments necessary for successful and continuous operation of the hardware at all installation sites.

37. Hardware & System Software Maintenance

The Supplier will accomplish preventive and breakdown maintenance activities to ensure that all hardware execute without defect or interruption for at least 98% uptime for 24 hours a day, 7 days a week of operation of the machine, worked on a quarterly basis. If any critical component of the entire configuration is out of service for more than a day, the Supplier shall either repair the defective unit within 24 hours or immediately replace the defective unit or replace the same immediately at its own cost. The Supplier will respond to a site visit and commence repair work on the equipment within two (2) hours of being notified of equipment malfunction. During warranty and later during AMC period, the Supplier will, in addition to attending the service calls as provided above, perform Preventive Maintenance once a quarter on a mutually convenient day. At the time of entering into AMC, the DEGS-N24P will be required to sign an AMC contract as per the format given in Bid Form and Other Formats.

38. Training

For each hardware and software component installed, the Supplier is required to train the designated

DEGS-N24P's technical and end-user personnel to enable them to effectively operate the total system. The number of users to be trained and the duration of the training shall be as specified in the Invitation for Quotation or as quoted by the DEGS-N24P in his Quotation. The venue, arrangements for provision of hardware/software and costs for the training shall be as specified in the Invitation for Quotation.

39. Technical Documentation

The Technical Documentation involving detailed instruction for operation and maintenance is to be delivered with every unit of the equipment supplied. The language of the documentation should be English.

40. Right to use defective equipment

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the equipment proves to be unsatisfactory, the DEGS-N24P shall have the right to continue to operate or use such equipment until rectification of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the DEGS-N24P's operation.

41. Standards

All standards to be followed will adhere to Bureau of Indian Standards (BIS) specifications or other acceptable standards like ANSI, IEEE, ISO, X/Open etc. Please note that any quotation which does not provide the above information in the specified formats is likely to be rejected and the DEGS-N24P will not enter into any correspondence with the vendor in this regard. You are requested to quote only one model against each item.

42. Award Criteria

The DEGS-N24P will award the Contract to the successful Bidder, out of the Bidders who have responded to DEGS-N24P's Invitation for Quotation, who has been determined to qualify to perform the Contract satisfactorily, and whose Bid has been determined to be substantially responsive, and is the lowest evaluated Bid. For evaluation purpose the unit price of each item will be taken as the basis for identifying the lowest bidder. The item wise lowest bidder be identified and contract will be awarded to lowest bidder for the particular item for which he has quoted the lowest rate.

43. Repeat Orders

After a Purchase/Work/ Contract is awarded to a Supplier, the DEGS-N24P may, at his discretion, award further Purchase/Work Contracts to the same Supplier for all/some of the goods originally quoted by him at the same/reduced prices up to a period of 6 (six) months from the date of the first Purchase/Work Contract without calling for fresh quotations.

44. DEGS-N24P's Right to reject any or All Bids

The DEGS-N24P reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the DEGS-N24P's action.

SECTION -VI

LETTER OF AUTHORISATION FOR ATTENDING BID OPENING

Tender No. _____

Subject : Authorization for attending bid opening on of _____ (Date) in the tender
Of _____

Following persons are hereby authorized to attend the bid opening for the tender mentioned above on Behalf of _____ (Bidder) in order of preference given below.

Order of Preference Name Specimen Signatures

I

II

Alternate Representative

Signature of bidder

or

Officer authorized to sign the bid documents on behalf of the bidder.

Note : One representative will be permitted to attend bid opening. In cases where it is restricted to one, first preference will be allowed. Alternate representative will be permitted when regular representative is not able to attend Read, understood & complied with Signature of the Tendered.

Read, understood & complied with
Signature of the Tendered

SECTION -VII

SCHEDULE OF RATES

From :

To : The Chairman, District eGovernance Society, North 24 Parganas

Sub : Tender for Supply and Installation of LAN EQUIPMENTS alongwith accessories For District e-Governance Society, North24 Parganas

Ref : NIT No. _____ Dt. _____

Sir,

I/we have gone through the terms and conditions detailed in the tender notice referred above No.

Supply and Installation of LAN EQUIPMENTS alongwith accessories For District e-Governance Society, North24 Parganas. I/we are agreeable to all the terms and conditions mentioned therein. I/we shall also abide any other rules connected to the supply that may be enforced by you. The rates are furnished below which are inclusive of all taxes, packing, forwarding for destination.

Sl. No	Name of Items	Unit	Make and Model of the item (Specify NA wherever not Applicable)	Rate (in INR) including of all taxes
01.	Unmanaged Switch			
a	8 Port 10/100 Switch	Each		
b	24 Port 10/100/1000 Switch with AC Power	Each		
02.	L2 Managed Switch with AC power			
	24 port 10/100 managed L2 Switch with 2 x1 G Eth. uplink port	Each		
03.	Media Converter			
	Single channel stand-alone, 10/100 BASE-T to 100BASE-FX, Auto MDI-I/MDI-X copper Ethernet port, Long haul transmission up to 10 kms support	Each		
04.	UTP CAT6 cable (Box of 305 m).	Box (305 Mtr.)		
05.	Base Mount Box	Each		
06.	Information Out late I/O	Each		
07.	Face Plate(Single SMB)	Each		
08.	Face Plate(Dual SMB)	Each		
09.	Patch Cord Length- 1 meter	Each		
10.	Patch Cord Length- 2 meter	Each		
11.	Patch Cord Length- 3 meter	Each		
12.	Patch Cord Length- 5 meter	Each		
13.	CAT6 RJ 45 Male Connectors	Box (100 Pc.)		
14.	Supply & Installation of 24 Port Patch Panel with wire Manager. (CAT6)	Each		
15.	9U wall mount Rack of 530 mm depth	Each		
16.	ISI marked PVC duct of Outside Diameter size along with accessories- 20 mm.	Per Mtr		
17.	ISI marked PVC duct of Outside Diameter size along with accessories- 32 mm.	Per Mtr		
18.	Installation & Termination of Information Outlets [including termination of UTP cable on I/O].	Per Port		

Sl. No	Name of Items	Unit	Make and Model of the item (Specify NA wherever not Applicable)	Rate (INC) including of all taxes
19.	Installation & Termination of UTP CAT6 cable on Patch Panel CAT6 with wire Manager including accessories.	Per Port		
20.	In building laying of UTP CAT6 cable	Per Mtr.		
21.	Installation of ISI marked PVC duct of Outside Diameter size [Per Meter] on surface of wall-20 mm	Per Mtr.		
22.	Installation of ISI marked PVC duct of Outside Diameter size [Per Meter] on surface of wall-32 mm	Per Mtr.		
23.	Installation of 9U Wall Mount Rack of 530 mm depth.	Per Unit		
24.	OPTICAL FIBER 12 Core single mode – FINOLEX/AMP	Meter		
25.	25 MM DIA ISI MARK PVC pipe to lay fiber (in building).	Meter		
26.	16 Gauge GI wire to lay fiber (Outdoor)	Meter		
27.	OFC JOINT ENCLOSER BOX (SMALL)	Number		
28.	OPTICAL PATCH CORD (single) SC-SC type, 3 meter length of make AMP/KROME	Number		
29.	In-building laying of Optical Fiber in PVC pipe.	Meter		
30.	Outdoor laying of Optical Fiber Cable (Overhead)	Meter		
31.	OFC splicing with fusion method	Number		
32.	Standard FLEXIBLE PVC PIPE, CLAMPS, NAILS ETC	Meter		
33.	Total (in figure)	*	*	*

Grand Total of rate for all the Items: Rupees only (including of all taxes)

NB: All the above items/jobs should carry at THREE year comprehensive onsite warranty.

** Technical Specifications are as annexure-I and duly signed by the bidder

*** Work will be awarded only on the basis of total amount quoted at Sl. No. 33.

Yours faithfully,

Signature of the Tendered

Dt :

Name

Place :

Address

Read, understood & complied with
Signature of the Tendered

Technical Specifications

Sl. NO.	Item	Specifications
01.	Unmanaged switch (a)	<p>Key Features</p> <ul style="list-style-type: none"> • 8 nos. of 10/100 Mbps Ethernet ports • 16 Gbps switching fabric • Auto MDI/MDIX crossover for all ports • Secure store-and-forward switching scheme • Full/half-duplex for Ethernet/Fast Ethernet speeds • IEEE 802.3x Flow Control • Supports 9,000 Byte Jumbo Frames • Supports IEEE 802.1p QoS (4 Queues, Strict Mode) • Supports Cable Diagnostics Function • RoHS compliant • Plug-and-play installation <p>Standards</p> <ul style="list-style-type: none"> • IEEE 802.3 10BASE-T Ethernet (twisted pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • ANSI/IEEE 802.3 NWay auto-negotiation • IEEE 802.3x Flow Control • IEEE 802.1p QoS • IEEE 802.3az Energy-Efficient Ethernet (EEE) <p>Protocol</p> <ul style="list-style-type: none"> • CSMA/CD <p>Media Interface Exchange</p> <ul style="list-style-type: none"> • Auto MDI/MDIX adjustment for all ports <p>Power Consumption</p> <ul style="list-style-type: none"> • Power On (Standby): <ul style="list-style-type: none"> ○ DC input: 0.55 watts ○ AC input: 1.0 watts • Maximum: <ul style="list-style-type: none"> ○ DC input: 2.8 watts ○ AC input: 4.5 watts <p>Item should be of Reputed Company/Brand.</p>

	<p>Unmanaged switch (b)</p>	<p>Number of Ports</p> <ul style="list-style-type: none"> • Twenty-four 10/100/1000 Gigabit ports <p>Standards</p> <ul style="list-style-type: none"> • IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • ANSI/IEEE 802.3 NWay auto-negotiation • IEEE 802.3x Flow Control <p>Data Transfer Rates</p> <ul style="list-style-type: none"> • Ethernet: <ul style="list-style-type: none"> • 10 Mbps (half duplex) • 20 Mbps (full duplex) • Fast Ethernet: <ul style="list-style-type: none"> • 100 Mbps (half duplex) • 200 Mbps (full duplex) • Gigabit Ethernet: <ul style="list-style-type: none"> • 2000 Mbps (full duplex) <p>Network Cables</p> <ul style="list-style-type: none"> • 10BASE-T: <ul style="list-style-type: none"> • UTP CAT 3, 4, 5/5e (100 m max) • EIA/TIA-586 100-ohm STP (100 m max) • 100BASE-TX, 1000BASE-T: <ul style="list-style-type: none"> • UTP CAT 5/5e (100 m max) • EIA/TIA-568 100-ohm STP (100 m max) <p>Functionality</p> <p>D-Link Green Features</p> <ul style="list-style-type: none"> • IEEE 802.3az Energy Efficient Ethernet (EEE) • Link status detection power saving • RoHS Compliance <p>Media Interface Exchange</p> <ul style="list-style-type: none"> • Auto MDI/MDIX <p>Transmission Method</p> <ul style="list-style-type: none"> • Store-and-Forward switching method <p>MAC Address Table</p> <ul style="list-style-type: none"> • 8K MAC addresses <p>RAM Buffer</p> <ul style="list-style-type: none"> • 512 KBytes RAM for data buffering <p>Jumbo Frames</p> <ul style="list-style-type: none"> • DGS-1016D: 9216 Bytes • DGS-1024D: 9600 Bytes <p>Switching Capacity</p> <ul style="list-style-type: none"> • DGS-1016D: 32 Gbps • DGS-1024D: 48 Gbps <p>Port Packet Filtering</p> <ul style="list-style-type: none"> • 10M: 14,880 pps • 100M: 148,800 pps • 1000M: 1,488,000 pps <p>Physical</p> <p>Power Inputs</p> <ul style="list-style-type: none"> • 100 to 240V AC Input <p>Power Consumption</p> <ul style="list-style-type: none"> • DGS-1016D: <ul style="list-style-type: none"> • Standby: 4.78 watts • Maximum: 10.24 watts • DGS-1024D: <ul style="list-style-type: none"> • Standby: 5.0 watts • Maximum: 12.5 watts
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02.	24 port 10/100 managed L2 Switch	<ul style="list-style-type: none"> • Intelligent features at the network edge, such as sophisticated access control lists (ACLs) and enhanced security. • Networked Sustainability: Energy Wise to measure report and reduce energy usage across the entire organization. • Dual-purpose uplinks for Gigabit Ethernet uplink flexibility, allowing use of either a copper or a fiber uplink; each dual-purpose uplink port has one 10/100/1000 Ethernet port and one Small Form-Factor Pluggable (SFP)-based Gigabit Ethernet port, with one port active at a time. • Network control and bandwidth optimization using advanced QoS, granular rate limiting, ACLs, and multicast services. • Network security through a wide range of authentication methods, data encryption technologies, and NAC based on users, ports, and MAC addresses. • Network Assistant software for easy network configuration, upgrades, and troubleshooting. • Auto configuration for specialized applications using Auto Smart ports. • It should have non-blocking wire-speed architecture. In a standalone mode, the switch should provide minimum 10/100/1000 Mbps+10 Gbps usable ports. • Switching fabric of switch should be minimum 88 Gbps or more. • Packet forwarding throughput should be 65.5 Mbps or higher for packet size of 64 Bytes .Minimum 10K MAC addresses. • It should support minimum 256 Active VLANs and should be possible to configure port based VLAN. • It should support SNMPv1, v2 and v3, Telnet, FTP, HTTP, SSH, SSL & IGMP v1 / v2 / v3 snooping to optimize Multicast Traffic. • It should support dual image and multiple configuration file. Web Based and CLI based management. Port Mirroring for troubleshooting. BootP / DHCP client. • Syslog support. RFC 2819 RMON Groups. <p>Protocol Features: Layer 3 switching, DHCP support, auto-negotiation, ARP support, trucking, VLAN support, auto-uplink (auto MDI/MDI-X), Ipv6 support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Dynamic Trucking Protocol (DTP) support, Port Aggregation Protocol (PagP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, RADIUS support, Jumbo Frames support, MLD snooping, Dynamic ARP Inspection (DAI), Unicast Reverse Path Forwarding (URPF), Uni-Directional Link Detection (UDLD), Link Aggregation Control Protocol (LACP), Hot Standby Router Protocol (HSRP) support.</p> <p>Standards</p> <ul style="list-style-type: none"> • IPV4/IPV6/RoHSv6 Compliant • NEBS Compliant • IEEE 802.1x support • IEEE 802.3x full duplex on 10/100/1000 BASE-TX ports • IEEE 802.1D Spanning-Tree Protocol • IEEE 802.1p class-of-service (CoS) prioritization • IEEE 802.1Q VLAN • IEEE 802.3u 10 BaseT / 100 Base Tx / 1000 Base Tx • EAL3 certified • Security Features • 802.1x port based user authentication with multiple host mode. • 802.1x Multi-client, multi-VLAN support for per-client authentication and VLAN • Assignment. Should support minimum 8 supplicants of 802.1x per port. Guest VLAN. MAC address lockdown. RADIUS and FTP security extensions • Access control lists to filter out unwanted traffic including denial of service attacks • STP root guard and BPDU guard. <p>Item should be of Reputed Company/Brand.</p>
03.	Media Converter : Single channel stand-alone, 10/100 BASE-T to 100BASE-FX, Auto MDI-I/MDI-X copper Ethernet port, Long haul transmission up to 10 kms support	<p>Single channel stand-alone Long haul media converter for 10/100BASE-T to 100BASE-FX media conversion through SC type connector for fiber (SM,MM & Single Fiber support), Auto MDI-I/MDI-X copper Ethernet port with DIP switch, Link, Activity & Speed LED indications, LFP (Link Fault Pass through) allows the fiber failure to be propagated to the copper port and in-built AC power Supply.</p> <p>Item should be of Reputed Company/Brand.</p>

Technical Specifications

1	UTP cable (CAT6) box 305 m	<p>Horizontal cabling shall be 23 AWG, 4-pair UTP, NEC/NFPA [CMP or CMR] rated and be independently verified for compliance. Cable jacketing shall be [white, gray, blue or yellow] and shall be lead-free. [Individual conductors shall be 100% virgin FEP insulated (if plenum)]. Cable shall exceed all TIA/EIA and ISO Category 6/Class E requirements. Cable performance shall be independently verified and characterized to 600 MHz. Cable shall be supplied [on wooden reels or in a reel-in-box]. Independent verification for flammability compliance shall be to NEC article 800 and NFPA 70; [CMP (NFPA 262, UL 910) or CMR (ANSI/UL 1666, IEC 332-1)]. Horizontal cable shall be AMP NETCONNECT part number [219560-X, 219567-X].</p> <p>Item should be of Reputed Company/Brand.</p>
2	Information outlets (I/O) with Base mount box & Face plate	<p>Surface mount box of diemesion 86 x 86 sqr.mm, with face plate, shutter & ISI mark with one RJ 45 socket, should confirm or exceed the EIA/TIA 568 C.2-1(CAT 6 / CAT 6A) standards, provision for dust cover, labeling icons & strips, anchors for stain relief cable entry, ULI /ETL *R listed & verified, AC Input Voltage : 85 to 264 VAC, AC Frequency : 47 to 63 Hz, AC Input Current : 4A at 100 VAC, 2A at 240 VAC, System Power Dissipation : 330W, KVA Rating : 0.35 KVA max, Output Power Voltage : 48 VDC (nominal), Heat Dissipation : 1125 Btu/hr max, Modularity : 8-pin, 4-pair, one I/O port per face plate. Operating Temperature: 32 to 104° F (0 to 40° C).</p>
3	Patch Cord	<p>Should confirm or exceed the EIA/TIA 568 C.2-1(CAT 6 / CAT 6A) standards, Factory molded boots on RJ 45 plugs at both ends, UL/ETL *R listed & verified, Option for colour- Grey, Blue, Red & Green & cross over cable, Length - 1/3/5 mtrs.</p> <p>Item should be of Reputed Company/Brand.</p>
	CAT6 RJ 45 Male Connectors (box of 100 pcs.)	<p>Current rating: 1.5A. Voltage rating: 125 VAC RMS. Dielectric strength: 1000 VAC RMS 60 Hz, 1 min. Insulation resistance: 1000M W min 500VDC. Contact resistance: 30m W max.</p>
4	24 port Patch Panel with wire Manager.	<p>24 wiring block at rear end & RJ 45 jack on front panel, 19" rack mountable, should confirm or exceed the EIA/TIA 568 B standards for CAT 6, Metallic high strength & 1U/2U height, confirm EIA/TIA 568 C.2-1 wiring pattern, should have routing rings & ties and labeling strips for identification, UL / ETL *R listed & verified.</p> <p>Dimensions: (H x W x D) (3.4 x 17.2 x 12.0 in.) (8.6 x 43.7 x 30.5 cm), AC Input Voltage: 85 to 264 VAC, AC Frequency : 47 to 63 Hz, AC Input Current : 4A at 100 VAC, 2A at 240 VAC, System Power Dissipation : 330W, KVA Rating : 0.35 KVA max, Output Power Voltage : 48 VDC (nominal), Heat Dissipation : 1125 Btu/hr max, Modularity : 8-pin, 4-pair, Operating Temperature : 32 to 104° F (0 to 40° C).</p> <p>19 "rack mountable, Metallic high strength with metal jumper rings for routing cable assemblies, mounts to the front of 19" rack & 1U height.</p> <p>Item should be of Reputed Company/Brand.</p>
5	ISI marked PVC duct of Outside Diameter size [Per Meter] on surface of wall	<p>All exhaust duct piping, sizes diameter of 20 /32 /40 mm shall be PVC seamless extruded type. This duct pipe shall be extruded from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784, trade name H707 PVC. All extruded PVC duct shall have a maximum flame spread rating of 25 or less per ULC S102.2. All PVC extruded duct pipe shall meet Georg Fischer Harvel LLC published standards with regard to material and dimensions, and shall carry a maximum temperature rating of 140°F. All extruded duct pipe should be manufactured using domestic materials, by an ISO 9001 certified manufacturer, and shall be stored indoors at the manufacturing site until shipped from the factory. All extruded PVC duct pipe shall be marked with the manufacturer's name or identifying symbol.</p>
6	9 U Wall Mount Rack of 530 mm depth fitted with fan, spike buster (4x5 + 2x15 amp socket and fuse)	<p>Should confirm To DIN 41494 & IEC 297 standard, Load bearing capacity of 60 Kgs, Have following accessories 19 " mountable, 1U, Universal power socket design to fit both round & flat socket with built in surge protection & over load circuit breaker, 5AMP AC power distribution channel made of high flame retardant & insulating material, CE approved with 6 nos sockets (1 nos), with wall mounting hardware, Copper earthing kit (19" copper bar) & equipment mounting screws/hardware packets (2 nos), Fan tray with two fans (low noise, good quality, ball bearing type, 90 CFM)</p>

Technical Specifications

1	Fiber Optic outdoor armored cable, multi loose tube Single Mode (SM).	<p>Single mode optical fiber cable, 9.2/125 micron graded index, anti rodent, required for outdoor applications for direct burial, fiber should be protected inside jelly filled loose tubes, armoring with acrylic coated good quality steel tape, with FRP strength member, water proof tape, double layer of HDPE jacket, should confirm or exceed the EIA/TIA 455, EIA/TIA 568, ISO 11801 & ICEA-640 standards for Fiber and cable performance specifications. UL/ETL *R Listed for safety.</p> <p>Item should be of Reputed Company/Brand.</p>
2	Optical Fiber Patch Cord, SM, SC-SC type.	<p>9.2/125 micron SM Fiber, SC connector at both end / LC connector at both end / SC connector at one end and LC connector on other end, with factory mount ceramic connector at both end UL/ETL *R Listed & verified.</p> <p>Item should be of Reputed Company/Brand.</p>