

**JAWAHARLAL INSTITUTE OF POST GRADUATE
MEDICAL EDUCATION AND RESEARCH**

(AN INSTITUTE OF NATIONAL IMPORTANCE)

**Tender Document
for Design, Supply, Installation, Testing &
commissioning of CCTV system at JIPMER-II,
Karaikal campus ,Puducherry. (Lecture & admin
complex and Lab Complex)**

TENDER NO.

HITES/IDS/16/29/JIPMER-II/KIK-26

Dated: 28th Oct. 2016

By

HLL INFRA TECH SERVICES LIMITED

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SECTION I

NOTICE INVITING TENDERS (NIT) HLL Infra Tech Services Limited

Tender Enquiry No.: HITES/IDS/16/29/JIPMER-II/KIK-26

Dated: 28.10.2016

1. HLL Infra Tech Services Limited,(HITES) on behalf of Jawaharlal Institute of Post Graduate Medical Education and Research,(Karakkal campus) invites bids from firms / contractors of repute in two envelope system for the following procurement/work:

Item No.	Description of Items	Estimated cost.	E.M.D. Amount
1	Design, Supply, Installation, Testing & commissioning of CCTV system at JIPMER-II, Karaikal campus ,Puducherry. (Lecture & admin complex and Lab Complex)	Rs.25,00,000/-	Rs. 50,000

2. **Tender No.: HITES/IDS/16/29/JIPMER-II/KIK-26**

SI No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	28/10/16 to 14/11/16, during 1000 Hrs. to 1600 Hrs. (IST)
ii.	Place of sale of Tender Enquiry Documents	HLL Infra Tech Services Limited JIPMER Campus,DhanvantriNagar, Gorimedu, Puducherry-605006.TeleFax:04132272054
iii.	Cost of the Tender Enquiry Document	Rs. 5200/-
iv.	Pre Tender Meeting Date & Time	04/11/16, 1200 noon (IST)
v.	Pre Tender Meeting Venue	Same as given in 2 (ii)
vi.	Closing date & time for receipt of Tender	15/11/2016, 15:00 Hrs. (IST)
vii.	Time and date of opening of Techno – Commercial tenders	15/11/2016, 15:30 Hrs. (IST)
Viii	Venue of Opening of Techno Commercial Tender	Same as given in 2 (ii)

3. Interested tenderers may obtain further information about this requirement from the above office selling the documents. Tender Enquiry Documents may be purchased on payment of non-refundable fee of Rs.5200.00 per set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque, drawn on a scheduled bank in India, in favour of **“HLL Infra Tech Services Limited”** payable at Thiruvananthapuram.

4. deleted

5. Tenderer may also download the tender enquiry documents (a complete set of document is available on website) from the web site www.lifecarehll.com or www.jipmer.edu or cpp portal and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.
6. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time are indicated at Para 2 above.
7. Tenderers shall ensure that their tenders, complete in all respects, are dropped in the Tender Box located at **HLL Infra Tech Services Limited, JIPMER, Dhanvantri Nagar, Gorimedu, Puducherry-605006, TeleFax:04132272054** on or before the closing date and time indicated in the Para 2 above, failing which the tenders will be treated as late tender and rejected. The tenders sent by post/ courier must reach the above said address on or before the closing date & time indicated in Para 2 above, failing which the tenders will be treated as late tender and rejected.
8. In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.
9. The Tender Enquiry Documents are not transferable.
10. All Tenders must be accompanied by EMD as mentioned against each item. Tenders without EMD shall be rejected.
11. The purchaser reserves the right to accept or reject any tender either in full or part without showing any reason.

For and on behalf of **Jawaharlal Institute of Post Graduate Medical Education and Research**

**DVP(Tech.)
HLL Infra Tech Services Limited
HLL bhavan- Golden Jubilee block- 2nd floor,
Poojappura, Thiruvananthapuram-695012**

SECTION - II

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

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A. PREAMBLE

1. Definitions and Abbreviations

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

- (i) “Purchaser” means the organization purchasing goods and services as incorporated in the Tender Enquiry document.
- (ii) “Tender” means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) “Tenderer” means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iii) “Supplier” means the individual or the firm supplying the goods and services as incorporated in the contract.
- (iv) “Goods” means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, scientific/laboratory equipments, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- (v) “Services” means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (vi) “Earnest Money Deposit” (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (vii) “Contract” means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (viii) “Performance Security” means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (ix) “Consignee” means the Hospital/Dispensaries/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that “another” person is the consignee, also known as ultimate consignee.
- (x) “Specification” means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xi) “Inspection” means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xii) “Day” means calendar day.

1.3 Abbreviations:

- (i) “TE Document” means Tender Enquiry Document
- (ii) “NIT” means Notice Inviting Tenders.
- (iii) “GIT” means General Instructions to Tenderers
- (iv) “SIT” means Special Instructions to Tenderers
- (v) “GCC” means General Conditions of Contract
- (vi) “SCC” means Special Conditions of Contract
- (vii) “DGS&D” means Directorate General of Supplies and Disposals

- (viii) “NSIC” means National Small Industries Corporation
- (ix) “PSU” means Public Sector Undertaking
- (x) “CPSU” means Central Public Sector Undertaking
- (xi) “LSI” means Large Scale Industry
- (xii) “SSI” means Small Scale Industry
- (xiii) “LC” means Letter of Credit
- (xiv) “DP” means Delivery Period
- (xv) “BG” means Bank Guarantee
- (xvi) “ED” means Excise Duty
- (xvii) “CD” means Custom Duty
- (xviii) “VAT” means Value Added Tax
- (xix) “CENVAT” means Central Value Added Tax
- (xx) “CST” means Central Sales Tax
- (xxi) “RR” means Railway Receipt
- (xxii) “BL” means Bill of Lading
- (xxiii) “FOB” means Free on Board
- (xxiv) “FCA” means Free Carrier
- (xxv) “FOR” means Free On Rail
- (xxvi) Deleted
- (xxvii) Deleted
- (xxviii) “DDP” means Delivery Duty Paid named place of destination (consignee site)
- (xxix) “INCOTERMS” means International Commercial Terms as on the date of Tender Opening
- (xxx) “JIPMER” means Jawaharlal Institute of Post Graduate Medical Education and Research.
- (xxxi) “The Director” means The Director, JIPMER.
- (xxxii) deleted

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – “List of Requirements”, which also indicates, *interalia*, the required quantity, delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - “General Instructions to Tenderers”) provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

3. Deleted

4. Language of Tender

- 4.1 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by a notarised English translation and, for purposes of interpretation of the tender, the English translation shall prevail.
- 4.2 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, may also be written in the Hindi language, provided that the same are accompanied by notarised English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

5. Eligible Tenderers

- 5.1 This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

6. Eligible Goods and Services

- 6.1 All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term “origin” used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

- 7.1 The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

- 8.1 In addition to Section I – “Notice inviting Tender” (NIT), the TE documents include:

Section II	– General Instructions to Tenderers (GIT)
Section III	– Special Instructions to Tenderers (SIT)
Section IV	– General Conditions of Contract (GCC)
Section V	– Special Conditions of Contract (SCC)
Section VI	– List of Requirements
Section VII	– Technical Specifications
Section VIII	– Quality Control Requirements
Section IX	– Qualification Criteria
Section X	– Tender Form
Section XI	– Price Schedules
Section XII	– Questionnaire
Section XIII	– Bank Guarantee Form for EMD
Section XIV	– Manufacturer’s Authorisation Form
Section XV	– Bank Guarantee Form for Performance Security
Section XVI	– Contract Forms A, B & C
Section XVII	– Proforma of Consignee Receipt Certificate
Section XVIII	– Proforma of Final Acceptance Certificate by the consignee
Section XIX	– deleted
Section XX	– Check List for the Tenderers

Section XXI – Consignee List

- 8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested tenderers are expected to examine all such details etc to proceed further.

9. Amendments to TE Documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE Documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in website only.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

10. Clarification of TE Documents

- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE Documents may take up the same with the purchaser in writing. The purchaser will respond in writing to such request provided the purchaser receives the same on or before the scheduled date of pre-bid meeting.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

- 11.1 The **Two Tender System**, i.e. “Techno-Commercial Tender” and “Price Tender” prepared by the tenderer shall comprise the following:

A) Techno-Commercial Tender (Unpriced Tender)

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii) Tender Form as per Section X.
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv) Balance sheet and profit & loss account for the last 5 years. Turn over for the last 5 years attested by Chartered accountant.
- v) Power of Attorney/Authorisation in favour of signatory of TE documents
- vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- vii) Performance Statement as per section IX along with relevant copies of purchase orders and end users’ satisfaction certificate.
- viii) Price Schedule(s) as per Section XII filled up with all the details including Make, Model, Name of manufacturer, etc. of the goods offered with prices blank (without indicating any prices).
- ix) Certificate of Incorporation of the bidder wherever applicable.
- x) Checklist as per Section XX.
- xi) Statement of deviations parameter wise from tendered technical requirement, if any.
- xii) Statement of deviations para wise from tendered commercial conditions, if any.

B) Price Tender:

The information given at clause no. 11.1 A) viii) above should be reproduced with the prices indicated. In case of imported goods Manufacturer's Original Proforma Invoice should also be submitted. The copies of the Previous Supply Order placed on the bidder for the same item should also be enclosed with the price bid justifying the rates quoted against this tender.

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.

- 11.2 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender.

Individuals signing the tender or other documents connected with a contract must specify whether he signs as:

- 33.1.1 A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.
- 33.1.2 A partner of the firm, if it be a partnership, in which case he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
- 33.1.3 Constituted attorney of the firm if it is a company.

N.B. (1) In case of (ii) above, a copy of the partnership agreement or general power of attorney, in either, case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.

(2) In case of the partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.

(3) A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.

- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored.

- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

12. Tender currencies

- 12.1 The tenderer shall quote only in Indian Rupees.

- 12.2 deleted.

- 12.3 Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.

- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules.

- 13.3 The price quoted by the tenderer for indigenous goods shall not be higher than the lowest price charged for the goods of the same nature, class or description to an individual/ firm/ organisation or department of Govt. of India.

If it is found at any stage that the goods as stated have been supplied at a lower price, then that price, with due allowance for elapsed time will be applicable to the present case and the difference in cost would be refunded by the supplier to the purchaser, if the contract has already been concluded.

- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:

13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

- a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
- b) any sales or other taxes and any duties including excise duty, which will be payable on the finished goods in India if the contract is awarded;
- c) charges towards Packing & Forwarding, Inland Transportation, Insurance, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
- e) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- f) deleted.

13.4.2 Deleted.

- 13.5 Additional information and instruction on Duties and Taxes:

- 13.5.1 If the Tenderer desires to ask for excise duty, sales tax/ VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- a) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all relief, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

If a tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax / VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of entry tax/town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser. However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

13.5.5 Deleted.

13.6 Deleted.

13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.

13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris

- a. The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.
- b. **The ownership of the supplies/equipments/goods belongs to JIPMER, Puducherry.**

14. Indian Agent

14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT sub clause 12.2 above, shall also furnish the following information:

- a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
- b) The details of the services to be rendered by the agent for the subject requirement.
- b) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty period.
- d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business.
- e) Principal/ manufacturer's original proforma invoice with the price bid.

f) The enlistment of the Indian Agent with DGS&D under the compulsory Registration Scheme of Ministry of Finance wherever applicable as per clause 17.2(d) hereafter.

14.2 Change of Authorised Indian Agent is not permissible as per the CVC guidelines.

15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

16. Alternative Tenders

16.1 Alternative Tenders are not permitted.

16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

17 Documents Establishing Tenderer's Eligibility and Qualifications

17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:

- a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
- b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
- c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.
- d) in case the tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India, operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

18. Documents establishing Good's Conformity to TE document.

18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.

18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.

- 18.3 If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 8.1 and 11.1(B) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below. The earnest money deposit lying with HITES. in respect of other tenders awaiting approval or rejection will not be adjusted towards earnest money for fresh tender.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be). In case NSIC quote on behalf of some SSI units, such offers will be considered as offers from SSI units registered with DGS&D/NSIC.
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i. Account Payee Demand Draft
 - ii. Banker's cheque and
 - iii. Bank Guarantee
- 19.4 The demand draft or banker's cheque shall be drawn on any scheduled commercial bank in India or country of the tenderer, in favour of the "HLL Infra Tech Services Limited" payable at Thiruvananthapuram. In case of bank guarantee, the same is to be provided from any scheduled commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days **from** Techno-Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- a. Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
 - b. deleted.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of opening of techno-commercial tenders

prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

- 20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.
- 21.2 Unless otherwise mentioned in the SIT, a tenderer shall submit two copies of its tender marking them as “Original” and “Duplicate”. Duplicate tenders may contain all pages including Technical Literature/Catalogues as in Original tenders.
- 21.3 The original and duplicate copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.
- 21.4 All the copies of the tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.
- 21.5 The tenderer is to seal the original and copy of the tender in separate envelopes, duly marking the same as “Original”, “Duplicate” and so on and writing the address of the purchaser and the tender reference number on the envelopes. The sentence “NOT TO BE OPENED” before _____ (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope along with envelope containing EMD, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.
- 21.6 TE document seeks quotation following **two Tender System**, in two parts. First part will be known as **‘Techno - Commercial Tender’**, and the second part **‘Price Tender’** as specified in clause 11 of GIT. Tenderer shall seal **‘Techno - Commercial Tender (along with envelope containing EMD)’** and **‘Price Tender’** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 followed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

- 22.1 Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at **HLL Infra Tech Services Limited, “ADARSH”, TC 6/1718(1), Vettamukku, Thirumala PO Thiruvananthapuram-695 006**. In case of bulky tender, which can not be put into tender box, the same shall be submitted by the tenderer by hand to **DVP (Tech)** or his nominee, **HLL Infra Tech Services Limited, “JIPMER Campus,DhanvantriNagar, Gorimedu, Puducherry-605006.TeleFax:04132272054**. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

- 1.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

23. Late Tender

- 23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as “late” tender and will be ignored.

24. Alteration and Withdrawal of Tender

- 24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.
- 24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

- 25.1 The purchaser will open the tenders at the specified date and time and at the specified place as indicated in the NIT.

In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

- 25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.

The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives’ names & signatures and corresponding tenderers’ names and addresses.

- 25.3 **Two-Tender system as mentioned in para 21.6 above will be as follows.** The **Techno-Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno-Commercially acceptable offers shall be opened at a latter date, which will be notified to such tenderers. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

- 26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

27. Preliminary Scrutiny of Tenders

- 27.1 The Purchaser will examine the Tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed stamped and whether the Tenders are generally in order.
- 27.2 Prior to the detailed evaluation of Price Tenders, pursuant to GIT Clause 34, the Purchaser will determine the responsiveness of each Tender to the TE Document. For purposes of these clauses, a responsive Tender is one, which conforms to all the terms and conditions of the TE Documents without material deviations. Deviations from, or objections or reservations to critical provisions such as those concerning **Performance Security (GCC Clause 5), Warranty (GCC Clause 15), EMD (GIT Clause 19), Taxes & Duties (GCC Clause 20), Force Majeure (GCC Clause 26) and Applicable law (GCC Clause 31) will be deemed to be a material deviation.** The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 27.3 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non-responsive and will be summarily ignored.
- 27.4 **The following are some of the important aspects, for which a tender shall be declared non-responsive and will be summarily ignored;**
- (i) Tender form as per Section X (signed and stamped) not enclosed.
 - (ii) Tender is unsigned.
 - (iii) Tender validity is shorter than the required period.
 - (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
 - (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
 - (vi) Tenderer has not agreed to give the required performance security.
 - (vii) Goods offered are not meeting the tender enquiry specification.
 - (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, terms of delivery, liquidated damages clause, warranty period.
 - (ix) Poor/ unsatisfactory past performance.
 - (x) Tenderers who stand deregistered/banned/blacklisted by any Statutory Authorities as per Govt. rules/procedures.
 - (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
 - (xii) Tenderer has not quoted for the entire quantity in the schedule as specified in the List of Requirements.

28. Minor Informality/Irregularity/Non-Conformity

- 28.1 If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the tenderers. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

- 28.2 The purchaser may seek clarifications of historical nature from the tenderers, which has no bearings on prices.

29 Discrepancies in Prices

- 29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.
- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Discrepancy between original and copies of Tender

- 30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

31. Qualification Criteria

- 31.1 Tenders of the tenderers, who do not meet the required Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

32. Conversion of tender currencies to Indian Rupees

- 32.1 In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the TT selling rate of exchange as quoted by authorised exchange banker approve by the Reserve Bank of India for similar transactions, as on the date of 'Price Tender' opening.

33. Schedule-wise Evaluation

- 33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the tenderers have the option to quote for any one or more schedules & offer discount for combined schedules. Such discounts wherever, applicable will be taken into account to determine the lowest evaluated cost for the purchase in deciding the successful tender for each schedule subject to tender(s) being responsive.

34. Comparison of Tenders

- 34.1 Unless mentioned otherwise in Section-III (Special Instructions to Tenderers) and Section-VI (List of Requirements), the comparison of the responsive tenders shall be carried out based on the terms of delivery as asked for in bid document. The quoted prices will added for comparison/ranking purpose for evaluation.

35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders

- 35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:

- i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Customs Duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
 - ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.
- 35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.
- 36. Tenderer's capability to perform the contract**
- 36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- 36.2 The above-mentioned determination will, inter alia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.
- 37. Contacting the Purchaser**
- 37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

- 38. Purchaser's Right to accept any tender and to reject any or all tenders**
- 38.1 The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.
- 39. Award Criteria**
- 39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser in terms of GIT Clause 36.
- 40. Variation of Quantities at the Time of Award/ Currency of Contract**
- 40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" without any change in the unit price and other terms & conditions quoted by the tenderer.

- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract.

41. Notification of Award

- 41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.
- 41.2 The Notification of Award shall constitute the conclusion of the Contract.

42. Issue of Contract

- 42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.
- 42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser by registered / speed post.
- 42.3 The Purchaser reserves the right to issue the Notification of Award consignee wise.

43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee

- 43.1 Failure of the successful tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

44. Return of EMD

- 44.1 The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

45. Publication of Tender Result

- 45.1 The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

46. Corrupt or Fraudulent Practices

- 46.1 It is required by all concerned to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
- (i) “corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission)

- designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

SECTION - III

SPECIAL INSTRUCTIONS TO TENDERERS

(SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

The tenderers should quote for all items mentioned in this tender. Tenderers not quoting for any of the item shall lead to disqualification and rejection of bid.

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)

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GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

- 1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

3. Patent Rights

- 3.1 The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trade marks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

5. Performance Security

- 5.1 Within **seven (7) days** from date of the issue of notification of award, the supplier shall furnish performance security to the Purchaser for an amount equal to ten percent (10%) of the total value of the contract, **valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.**
- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
- a) It shall be in any one of the forms namely Account Payee Demand Draft drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XV of this document in favour of the Consignee.
 - b) deleted.

- 5.3 In the event of any failure /default of the supplier with or with out any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for security as per Proforma, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 deleted
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations.

6. Technical Specifications and Standards

- 6.1 The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

7. Packing and Marking

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, (the entire journey during transit to their final destination as indicated in the contract), rough handling, extreme weather conditions etc. so that there is no damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and in SCC. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and in SCC, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

8. Inspection, Testing and Quality Control

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection

and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

- 8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period. The goods, should, on no account be dispatched /delivered without getting the same inspected and passed by the inspecting officer stipulated in the contract.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above. On rejection the supplier shall remove such stores within 14 days of the date of intimation of such rejection from consignee's premises. If such goods are not removed by the supplier within the period aforementioned, the purchaser/consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide, or dispose of such goods at the supplier's risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for.
- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.

9. Terms of Delivery

- 9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery as specified in the list of requirement.

10. Transportation of Goods

10.1.1 deleted.

10.1.2 deleted.

10.1.3 deleted.

10.1.4 Supplies being on DDP basis, the delivery inclusive of all expenses at site shall be arranged by the supplier agent as per the terms of the contract.

10.1.5 The supplier shall take proactive measures before arrival of equipment/stores/goods to obtain necessary statutory documents, such as entry permit, road permit, Octroi exemption, etc. wherever required from the concerned authority to avoid any hold up and/ or delay in supplies.

10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure. The supplier shall be responsible for all loss, destructions, damage or deterioration of or to the goods from any cause whatsoever while the goods after approval by the inspector are awaiting despatch or delivery.

11. Insurance:

11.1 Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrive in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from “warehouse to warehouse” (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier **making the consignee as beneficiary** and should be valid till 3 months after the receipt of goods by the Consignee.

ii) deleted.

12. Spare parts

12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b) In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and

ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/Consignee.

13. Incidental services

13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.

- i) Installation & commissioning, Supervision and Demonstration of the goods
- ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
- iv) Supplying required number of operation & maintenance manual for the goods

14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee

Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract):

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Two copies of packing list identifying contents of each package;
- (iii) Inspection certificate issued by the nominated Inspection agency, if any.
- (iv) Certificate of origin;
- (v) Insurance Certificate as per GCC Clause 11.
- (vi) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) deleted.

15. Warranty

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the 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 under the conditions prevailing in India.

15.2 This comprehensive warranty shall remain valid for **1 (one) year** after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the Purchaser/Consignee in terms of the contract, unless specified otherwise in the SCC.

- a. No conditional warranty will be acceptable.
- b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories.
- c. Replacement and repair will be under taken for the defective goods.
- d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 24 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions.
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of 24 months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser. In case the supplier is not able to rectify the defects to the full satisfaction of the purchaser the goods shall have to be replaced free of any charge with a new one and fresh warranty as per Clause 15.2 above shall be applicable. The decision of the purchaser in this respect shall be final and binding on the supplier.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 24 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods.
- 15.8 deleted.
- 15.9 The supplier shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for **10 years** from the date of installation and handing over.

16. Assignment

- 16.1 The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

17. Sub Contracts

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification of contract

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
- a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
 - b) Mode of packing,
 - c) Incidental services to be provided by the supplier
 - d) Mode of despatch,
 - e) Place of delivery, and

f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

19. Prices

19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser/consignee.

20.2 Further instruction, if any, shall be as provided in the SCC.

21. Terms and Mode of Payment

21.1 Payment Terms

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

A) Payment for Domestic Goods or Foreign origin located within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) On delivery:

80 % payment of the contract price shall be made on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee/HITES Project incharge;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any;
- (v) Manufacturer's/Supplier's warranty certificate
- (vi) Certificate of origin (only in case of goods of foreign origin located in India).

b) On Acceptance:

Balance 20 % payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

B) deleted

C) Payment for Annual Comprehensive Maintenance Contract (CMC) Charges:

1. The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said

period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5 % of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

2. The supplier shall not claim any interest on payments under the contract.
3. Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
4. deleted.
5. The payment shall be made in the currency / currencies authorised in the contract.
6. The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to the purchaser.
7. While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
8. While claiming reimbursement (upon provision if any in contract) of duties, taxes etc. (like sales tax, excise duty etc) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
9. In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
 - (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:
 - (e) "I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment."

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 deleted.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to the purchaser.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty etc.) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in

case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.

- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:
"I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment."

22. Delivery:

- 22.1 The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of contract and the delivery must be completed not later than the date(s) as specified in the Contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
- (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
- (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the

contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.

(c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.

23. Passing of Property:

- 23.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.
- 23.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.
- 23.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

24. Liquidated damages

- 24.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

25. Termination for default

- 25.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.
- 25.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.
- 25.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

26. Termination for insolvency

26.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

27. Force Majeure

27.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

27.2 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 which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, acts of the Purchaser/Consignee either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, and freight embargoes.

27.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

27.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

27.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

28. Termination for convenience

28.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

28.2 The goods and services that are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:

- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
- b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

29. Governing language

29.1 The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

30. Notices

- 30.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 30.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

31. Resolution of disputes

- 31.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 31.2 If the parties fail to resolve their disputes of differences by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. Such dispute or difference shall be referred to the sole arbitrator appointed by the CEO of HITES. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakh (Rs. 1,00,000/-)
- 31.3 Venue of Arbitration: The venue of arbitration shall be at Thiruvananthapuram, Kerala.

32. Applicable Law

The contract shall be governed by Sales of Goods Act and Indian Contract Act. It shall be interpreted in accordance with the laws of India for the time being in force.

33. Withholding and Lien in respect of sums claimed

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser, will be kept withheld or retained till the claim arising out of the contract is determined by the Arbitrator or by the competent court as the case may be, and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

34. General/ Miscellaneous Clauses

Each member/constituent of the Supplier/its Indian Agent, in case of _____ consortium shall be jointly and severally liable to and responsible for all obligations towards the _____ Purchaser/Consignee for performance of contract/services including that of its Associates/Sub Contractors under the Contract.

The Supplier/its Indian Agent shall at all times, indemnify and keep indemnified the Purchaser against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while Providing its services under the Contract.

The Supplier/its Agent shall, at all times, indemnify and keep indemnified the Purchaser/Consignee against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.

All claims regarding indemnity shall survive the termination or expiry of the contract.

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

Comprehensive warranty of 1 year and Annual Comprehensive Maintenance Contract (CMC) for 5 years required for the complete work.

Separate contract for CMC has to be done directly with the end user, before completion of warranty period. The warranty starts from the date of final acceptance certificate issued by the Engineer-Incharge, HITES.

For evaluation purpose the total bid amount and CMC cost for 5 years will be added and the lowest quoted amount will be awarded, if other conditions satisfied.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

SECTION – VI

LIST OF REQUIREMENTS

Part I:

Item No.	Description of Items
1	Design, Supply, Installation, Testing & commissioning of CCTV system at JIPMER-II, Karaikal campus ,Puducherry. (Lecture & admin complex and Lab Complex)

Part II: Required Schedule & Part III: Scope of Incidental Services:

Within **20 days** from date of Letter of Award or handing over of the site by engineer In-charge, whichever is later. Design, Supply, Installation, Testing, commissioning, Supervision, Demonstration, Trial run and Training etc. of CCTV system at JIPMER-II, Karaikal campus ,Puducherry. (Lecture & admin complex and Lab Complex) as specified in GCC Clause 13. The delay on the part of the supplier to install and commission the equipment will attract the provisions as contained in the liquidated damage clause.

Part IV:

Turnkey (if any) as per details in Technical Specification.

Part V:

Annual Comprehensive Maintenance Contract (CMC) as detailed in **General Points** in Technical Specification.

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

Delivery required at Consignee Site.

Destination/Consignee details are given in Section XXI

Part VII:

Inspection:

a) For Indigenous goods or for imported goods if supplied from India:

At consignee site by the respective project In-charge of HITES or his authorised representative.

Part VIII: Other special conditions:

1. Required size, model, type & design shall be approved by concerned officer/Engineer-in-charge before the actual delivery for installation.
2. All the items including for this works shall be provided by the supplier & shall of best quality approved by the Engineer in charge.
3. The colour options shall be confirmed with HITES before production.
4. Measurements in drawings are indicative only. Site Measurements shall be taken before production and approvals shall be taken from HITES before starting the production.
5. All the necessary accessories/required items should be provided at the time of installation.

Section – VII

Technical Specifications

Note 1: Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1(c). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing that it's tender is liable to be ignored.

Note 2: OPTIONAL ITEMS: Bidders are requested to quote for all the available options as asked in the bidding document with reasonable pricing. However the pricing for optional items will not be considered for price comparison for ranking purpose.

Scope of work

IP BASED CCTV SURVEILLANCE SYSTEM

Scope of work

The scope of work has been divided into two parts:

In part-I, SOW include supply, installation, testing, commissioning and handing over of IP based CCTV surveillance system in the premises of the Lecture complex at Karaikkal

In Part-II, SOW include supply, installation, testing, commissioning and handing over of IP based CCTV surveillance system in the premises of the Lab and Admin complex at Karaikkal

The system mentioned in both parts are standalone. Detailed bill of quantities, technical specifications, make list and architectural layouts are attached to the tender documents

Contractor shall carry out the entire work of the system which consists of following devices/items/works including all materials and manpower as per the specifications, bill of quantities, drawings and to the satisfaction of client and consultant.

The major components of the system are given below:

Lecture complex

- IR Outdoor Varifocal IP Bullet Camera, 1/3" CMOS, IP66 to be located in main gate
- IR Outdoor Fixed Lens IP Bullet Camera, 1/3" CMOS, IP 66 to be located in car parking areas, internal roads, coffee shop, land scape area, park zones, substation etc.
- 32 Channel network video recorders (NVRs) & hard disk of 4 TB with features like simultaneous Record/Playback/Live/Ethernet/Archive, integrated software for web based applications for remote viewing facility, MPEG 4 & H264 Video formats, coaxial/USB/RJ45 cable connectivity, to be located in server room of the building
- Ethernet switches to connect cameras and NVRs
- Server PC with Intel i3 4th generation processor, 4GB DDR3 RAM, 1TB HDD, 1GB NVIDIA graphic card, optical mouse, Keyboard, DVD Writer to be located in server room
- 32 inch full HD LED monitor, full HD to be located in security room

- UPS to provide power supply to the components in server room
- Rack to accommodate NVR and hard disk to be located in server room of the building
- Ethernet switch 8 port to be located in server room
- Cat6 cable
- Cable containment system such as PVC conduits and HDPE pipe

Lab complex

- IP IR PTZ camera, 18X optical zoom, IP-66, WDR, 100 Meters IR distance to be located in the main gate
- IR Outdoor Varifocal IP Bullet Camera, 1/3" CMOS, IP66 to be located in entrance, cark parking, substation, internal roads etc. of the premise
- IR Outdoor Fixed Lens IP Bullet Camera, 1/3" CMOS, IP 66 to be located in entry/exit, staircases, internal corridors etc. of the lab complex building.
- 32 Channel network video recorders (NVRs) & hard disk of 4 TB with features like simultaneous Record/Playback/Live/Ethernet/Archive, integrated software for web based applications for remote viewing facility, MPEG 4 & H264 Video formats, coaxial/USB/RJ45 cable connectivity, to be located in server room of the building
- Ethernet switches to connect cameras and NVRs
- Server PC with Intel i3 4th generation processor, 4GB DDR3 RAM,1TB HDD,1GB NVIDIA graphic card, optical mouse, Keyboard, DVD Writer to be located in server room
- 32 inch full HD LED monitor, full HD to be located in security room
- UPS to provide power supply to the components in server room
- Rack to accommodate NVR and hard disk to be located in server room of the building
- Ethernet switch 8 port to be located in server room
- Cat6 cable
- Cable containment system such as PVC conduits and HDPE pipe

Associated civil works such as excavation of trench of required dimensions to lay HDPE pipe or PVC conduits to be used for pulling cables is also included in the scope of work.

The nature of ground shall be of any nature (RCC/Interlocked/landscaped/soft soil) in the project site. Reinstatement of the surface to original state on completion of burying of conduits shall be a part of the contract.

Standards and codes

UL 60950-1, emission EN55022 class B

FCC part15 class B

CE standards

ANSI C63.4: 2003

Class A Digital Devices UL 60065, 7th Edition. 2007-12-11 CAN/CSA-C22.2

UL60065-03, 1st Edition, 2006-04 + A1:2006

EN55022:2006, Class A

EN50130-4:1995+A1:1998+A2:2003 LVD 2006/95EC

EN60950-1:2006+A11:2009 IEC 60950-1:2005 (2nd Edition)

Technical specification

The system offered must be capable of simultaneous viewing, recording and playback facility. All components going to be used must be compatible for high definition & high resolution capability. The system shall be IP based and capable of viewing from multiple locations using appropriate web based applications apart from viewing in the monitor provided in the security room.

32 Channel Network Video Recorder

Professional and Reliable dual OS design to ensure high reliability of system running
ANR technology to enhance the storage reliability when the network is disconnected

HD input H.265/H.264+/H.264/MPEG4 video formats

Connectable to the third-party network cameras

Up to 32 IP cameras can be connected

Recording at up to 12 MP resolution

Supports live view, storage, and playback of the connected camera at up to 12 MP resolution

HD Output

HDMI and VGA outputs provided

HDMI Video output at up to 4K (3840 × 2160) resolution

HD Storage

Up to 4 SATA interfaces connectable for recording and backup

Storage space effectively saved by 50% to 70% with the use of H.264+decoding format

HD Transmission

1 self-adaptive 10M/100M/1000M network interface

8/16 independent PoE network interfaces are provided

Various Applications

Centralized management of IP cameras including configuration, information import/export, real-time information display, two-way audio, upgrade etc.

Connectable to smart IP cameras, recording, playback and backing up of VCA alarms can be realized

VCA detection alarm is supported

Instant playback for assigned channel during multi-channel display mode

Smart search for the selected area in the video and smart playback to improve the playback efficiency

Supports HDD quota and group modes; different capacity can be assigned to different channels

Video/Audio input	IP video input	32-ch Up to 12 MP resolution
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1kΩ)
Network	Incoming bandwidth	256 Mbps
	Outgoing bandwidth	256 Mbps
	Remote connection	128
Video/Audio output	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
	HDMI output resolution	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
	VGA output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
	Audio output	1-ch, RCA (Linear, 1 KΩ)
Decoding	Decoding format	H.265/H.264+/H.264/MPEG4
	Live view / Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
	Synchronous playback	16-ch
	Capability	4-ch @ 4K, or 16-ch @ 1080p
Hard disk	SATA	4 SATA interfaces for 4HDDs
	Capacity	Up to 6TB capacity for each HDD

External interface	Network interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
	Serial interface	1 RS-485 (half-duplex), 1 RS-232
	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
	Alarm in/out	16/4
POE Interface (for /P series NVR only)	Interface	16 RJ-45 10/100 Mbps self-adaptive Ethernet interfaces
	Power	≤200W
	Supported standard	IEEE 802.3 af/at
General	Power supply	100 to 240 VAC
	Power	≤300 W
	Consumption (without hard disk)	≤20 W (without enabling PoE)
	Working temperature	-10 to +55°C (14 to 131°F)
	Working humidity	10 to 90 %
	Chassis	19-inch rack-mounted 1.5U chassis
	Dimensions(W × D × H)	445 × 390 × 70 mm (17.5"× 15.3" × 2.8")
	Weight(without hard disk)	≤ 5 Kg (11 lb)

IP IR PTZ Camera

Image Sensor	:	1/3" Progressive CMOS
Optical Zoom	:	18 or 20X
Digital Zoom	:	OFF / ON (X2 ~ X8)
Effective Pixels	:	1920 (H) x 1080 (V)
S / N Ratio	:	>50dB
Min. Illumination	:	IR LED ON - 0 Lux
Color	:	0.15 Lux, F1.35 (50 IRE AGC ON)
B/W	:	0.01 Lux, F1.35 (50 IRE AGC ON)
Focus length	:	f=4.45 to 89mm (F1.6 - F2.9)
<u>Angle Field of view</u>		
Horizontal	:	Appr. 55.56° (Wide) to 3.10° (Tele)
Vertical	:	Appr. 43.32° (Wide) to 2.34° (Tele)
Focus Mode	:	Auto / Manual / One push
White Balance	:	ATW / AWC / INDOOR / OUTDOOR / Manual
Iris Control	:	Auto / Manual
Electronic Shutter	:	AUTO / MANUAL / A.FLK, X60 ~ 1/30,000
AGC Control	:	OFF, LOW, MIDDLE, High, MANUAL Selectable
Backlight Compensation		
OFF / BLC / HLC Selectable		
Digital Slow Shutter	:	Sens-up (X2 - 48)
Motion Detection	:	ON / OFF (programmable zones)
Wide Dynamic Range	:	ON / OFF
Day/Night	:	Auto, COLOR, B/W (ICR)
Image Inverse	:	Off / H-Rev / V-Rev / HV-Rev
Noise Reduction	:	Super 2+3D-NR, OFF, Low, Middle, High
Electronic Image Stabilizer	:	ON / OFF
<u>Operation</u>		

Pan travel	:	360° endless
Tilt travel	:	0 - 90°
Manual Speed	:	0.1° - 150°/s
Presets	:	256
Preset Accuracy	:	0.1°
Preset Speed	:	180°/s
Swing	:	8
Cruise	:	8
Pattern	:	4
Privacy Mask	:	4
Proportional Pan & Tilt	:	Auto
Home Function	:	Preset / Swing / Cruise / Pattern
Auto Flip	:	Mechanical
Resume after Power Loss	:	Support
IR Beam Distance	:	100m
IR Angle	:	Adjustable by zoom

IP Video

Main Stream Resolution	:	1080P (1920 x 1080), 720P (1280 x 720), Q1080P (960 x 544)
Second Stream Resolution	:	720P (1280 x 720), VGA (640 x 480), Q1080P (960 x 544), D1 (720 x 576), Q720P (640 x 360), QVGA (320 x 240), CIF (352 x 288), QCIF (176 x 144)
Frame Rate	:	1fps - 25/30fps
Bit Rate	:	16 - 8000kbps
Video Compression	:	H.264 baseline, main, high profile / MJPEG dual stream
Encoding Control	:	CBR / VBR / GOP
Video Output	:	1.0Vp-p complex video output, 75 Ohm

Network

Network Protocols	:	IPv4, TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, ICMP, SNMP
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System Integration

Supported Protocol	:	ONVIF Profile S
Alarm Input	:	2 channels
Alarm Output	:	1 channel, support alarm linkage
Alarm Linkage	:	SD card video recording / FTP Upload / Email / Snapshot / Preset /
Alarm output / CMS	:	
Audio	:	1 channel input, 1 channel output, monitoring and talkback
Audio Compression	:	G.711ulaw / ADPCM
RS485	:	Half-duplex, support Pelco P and Pelco D

General

Supported Platform	:	Honeywell Universal Surveillance (HUS) and NVRs
Power Supply	:	DC12V5A ±10%
Power consumption	:	50W (IR LED and heater ON)
Edge Storage	:	Max 32G, support NFR
Operation Temperature	:	Outdoor -30°C to 60°C
Operation Humidity	:	0 - 90% RH (non-condensing)
Dimensions	:	415 (H) x 243 (D) mm
Weight	:	10kg
Protection	:	IP66, Vandal-proof IK10
Regulatory	:	CE, FCC, type-examination report

IR Varifocal Bullet Camera

Image sensor	1/3" progressive scan CMOS
Min. illumination	0.01 lux@F1.2, AGC on 0.014 lux@F1.4, AGC on 0 lux with IR
Shutter time	1/25s (1/30s) ~ 1/100,000s
Lens	2.7 ~ 12 mm @F1.4, angle of view: 80° ~ 28.7°
Lens mount	Φ14
Day & night Digital noise reduction	ICR 3D DNR
Wide dynamic range	Digital WDR
Backlight compensation	Yes, zone configurable
Video compression	H.264 / MJPEG
H.264 compression profile	Main profile
Bit rate	32 Kbps ~ 16 Mbps
Audio compression (-S)	G.711 / G.726
Audio bit rate (-S)	64Kbps (G.711) / 16Kbps (G.726)
Max. image resolution	1280 x 960
Frame rate	50Hz: 25fps (1280 x 960), 25fps (1280 x 720) 60Hz: 30fps (1280 x 960), 30fps (1280 x 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
Network storage	NAS
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception, storage error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP optional)
System compatibility	ONVIF, PSIA, CGI
General functionalities	User authentication, watermark, dual stream
Communication interface	1 RJ45 10M / 100M Ethernet port
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB
Operating conditions	-30 °C ~ 60 °C (-22 °F ~ 140 °F), humidity 95% or less (non-condensing)

Power supply	DC12V \pm 10%, PoE (802.3af)
Power consumption	Max. 5.5W (Max. 7.5W with ICR on)
Ingress protection level	IP66
IR range	Up to 30m
Dimensions	95 x 105 x 258.6 mm (3.74" x 4.13" x 10.18")
Weight	1200g

IR fixed bullet camera

Parameter	1.3 Megapixel EXIR Bullet Network Camera
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR 0.014 Lux @(F1.4,AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Lens	4mm, 6mm optional Angle of view: 71°(4mm), 46°(6mm), 17.2°(16mm)
Lens Mount	M12
Day & Night	IR cut filter with auto switch
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Digital WDR
Compression Standard	
Video Compression	H.264/ MJPEG
H.264 Compression Type	Main/ Basic Profile
Video Bit Rate	32 Kbps – 8 Mbps
Dual Stream	Yes
Max. Resolution	1280 x 960
Frame Rate	50 Hz: 25 fps (1280 x 960), 25 fps (1280 x 720), 25 fps (704 x 576), 25 fps (640 x 480) 60 Hz: 30 fps (1280 x 960), 30 fps (1280 x 720), 30 fps (704 x 576), 30 fps (640 x 480)
Image Settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser
Backlight compensation	Yes, zone optional
ROI	Support
Network Storage	NAS (Support NFS,SMB/CIFS)
Alarm Trigger	Intrusion detection, Line crossing detection, Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage full, Storage error
Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,

	PPPoE,NTP,UPnP,SMTP,SNMP,IGMP,802.1X,QoS,IPv6,Bonjour
General	One-key reset, Flash-prevention, dual stream, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access
Standard	ONVIF, PSIA, CGI, ISAPI
Communication Interface	1 RJ45 10M/100M Ethernet interface
Operating Conditions	-30 °C – 60 °C (-22 °F – 140 °F) Humidity 95% or less (non-condensing)
Power Supply	12 V DC ± 10% PoE (802.3af)
Power Consumption	I3: Max. 5W I5: Max. 6.5W I8: Max. 10W
Ingress Protection level	IP66
IR Range	30 meters
Dimensions(mm)	194.04×93.85×89.52 mm
Weight	750g

Network switch

Network Ports : 8/24 auto speed-sensing 10/100 RJ-45 ports

Network Protocol and Standards

IEEE 802.3i 10BASE-T

IEEE 802.3u 100BASE-TX

IEEE 802.1p priority tags

IEEE 802.3x Flow Control

IEEE 802.3af DTE Power via MDI

Performance Specifications

Forwarding modes: Store-and-forward

Bandwidth: 1.6Gbps

Network latency: Less than 20 µs for 64-byte frames in store-and-forward mode for 100Mbps to 100Mbps transmission

Buffer memory: 96KB embedded memory per unit

Address database size: 1000 media access control (MAC) addresses per system

Addressing: 48-bit MAC address

Mean time between failures (MTBF): 927,000 hours

Acoustic noise: 0dB (fanless)

Power Supply

Total power consumption: 56.1W maximum

802.3af power consumption: 53W maximum (Ports 1 – 4)

48V DC, 1.25A power output; plug is localized to country of sale

Physical Specifications

Dimensions: (W x D x H)

235 x 103 x 27mm (9.3 x 4.1 x 1.1in)

Environmental Specifications

Operating temperature: 32° to 104°F (0° to 40°C)

Storage temperature: -40° to 158°F (-40° to 70°C)

Operating humidity: 90% maximum relative humidity, non-condensing

Storage humidity: 95% maximum relative humidity, non-condensing

Operating altitude: 10,000ft (3,000m) maximum

Storage altitude: 10,000ft (3,000m) maximum

Electromagnetic Emissions

CE mark, commercial

FCC Part 15 Class B
VCCI Class B
EN 55022 (CISPR 22), Class B
C-Tick, Class B

Server PC

Intel i3 4th generation, 4GB DDR3 RAM, 1TB HDD, 1GB NVIDIA graphic card, optical mouse, Keyboard, DVD Writer. Genuine Win 8.1 Pro - Down grade to Win 7 professional.

LED monitor

Screen type : LED
Display size : 32 inch
Panel : grade A
Screen resolution : 1920X1080 pixel, full HD
Aspect ratio : 16:10
Viewing angle : 178/178 degrees
Contrast ratio : 30000:1 dynamic
Colour system : PAL/NTSC/SECAM,
Interface : TV, VGA, AV, YPBPR, USB, HDMI & audio input,
Audio output, wall mount or table mount kit
PAP facility : Variable
PIP facility : must be provided
Voltage range : 90 to 270 v ac
Viewing matrix shall be 12 pictures in a single monitor

Hard disk

Specifications	4 TB
Formatted capacity	4 TB
Form factor	3.5-inch
Advanced Format (AF)	Yes
RoHS compliant ³	Yes
Performance	
Data transfer rate (max) Buffer to host	6 Gb/s
Host to/from drive (sustained)	150 MB/s
Cache (MB)	64
Rotational speed (RPM)	7200
Reliability/Data Integrity	
Load/unload cycles ⁴	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3
Power Management	
Average power requirements (W) Read/Write	4.80
Idle	4.33
Standby and Sleep	0.52
Environmental Specifications ⁶	
Temperature (°C, on the base casting) Operating	0 to 65
Non-operating	-40 to 70
Shock (Gs)	30
Operating (2 ms, read/write) Operating (2 ms, read)	65
Non-operating (2 ms)	250
Acoustics (dBA)	25
Idle	26
Seek (average)	

Physical Dimensions	
Height (in./mm, max)	1.028/26.1
Length (in./mm, max)	5.787/147
Width (in./mm, $\pm .01$ in.)	4/101.6
Weight (lb./kg, $\pm 10\%$)	1.50/0.68

Optical fiber cable

Parameter	Technical Specification
Cable Type <u>outdoor Armored</u> <u>Fiber optic Cable</u>	6 / 12-core, OS2 Single mode, Armored, loose-tube fiber , Corrugated steel Tape (CST) armour , Gel Filled with Strength Member of FRP Rods - 2 nos.
Fiber type	9/ 125 - OS2 fibers, Telcordia's GR-20 and ITU-T G652.D Compliance Such Fiber would enable them to use CWDM (Coarse Wavelength Division Multiplexing) and low water peak fiber technique and will offer at least 8 virtual fiber in one fiber in future.
No. of cores	6/12
Cable Construction	BELLCORE GR 20 / IEC 794-1
Attenuation	
@ 1310nm	≤ 0.35 dB/Km
@ 1383 nm	≤ 0.31 dB/Km
@ 1550nm	≤ 0.20 dB/Km
Coating / Cladding non-circularity	≤ 12 microns
Zero Dispersion Slope	≤ 0.088 ps / sqnm-km
Max (chromatic) dispersion	< 5.3 ps/nm-km @ 1270-1340 nm < 3.5 ps/nm-km @ 1285-1330 nm < 185 ps/nm-km @ 1550 nm
Fiber core	Should be UL Listed
Tensile rating	1000N
Maximum Crush resistance	3000N
Operating Temperature	-40 Degree C to +70 Degree C
Armor	Corrugated Steel tape Armor
Colour	Black
Outer jacket	High density polyethylene, anti - termite, anti - rodent suitable for direct burial application.
Secondary Buffer Material	Gel filled Loose Tube.
Min Bend	20 X Outer Diameter
Weight	90 Kg/Km (Approx)
Test (Must pass)	IEC794-1-E1 , IEC794-1-E2 , IEC794-1-E3 , IEC794-1-E4 , EIA-455-104 , IEC794-1-E7 , IEC794-1-E10 , IEC794-1-F1 , IEC794-1-F3 and IEC794-1-F5
Marking	Identification marking at regular intervals of 1 meter

Fiber Core	Raw fiber of corning. CORNING marking should be visible on the OFC
Approval	UL Listed
ISO certification	All quoted product and Brand should have ISO certification for manufacturing in India

1KVA UPS with 1hour back up

Rectifier shall be IGBT Based.

True Online Double Conversion with DSP Control Technology for High Performance and Reliability.
New Graphical LCD Display Provides UPS Data, Alarms and Helps in faults diagnostics and trouble shooting.

Double Conversion Efficiency upto 90%.

Active Input Power Factor Correction: 0.99.

Output Power Factor: 0.8

Wide Input Voltage: 110V - 280 Vac

Configurable Output Voltage: (200/208/220/230/240 Vac.)

Generator Compatible with Wide Input: Frequency Range (40 Hz-70 Hz).

4 Stage Extendable Charging Design for optimized Battery Performance.

Adjustable Battery Charging Current: 1/2/4/6 Amps according to Battery Capacity and Rating.

Intelligent Monitoring with Standard RS232/USB Port plus Slot Available for RS485/Dry Contact/SNMP Card.

Phase	Single Phase with Ground	
Capacity	1000 VA/800 W	
Nominal Voltage	200/208/220/230/240 VAC	
Input Voltage Range	110-280 VAC (Based on Load at 50%)	
Frequency Range	40 Hz ~ 70 Hz	
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)	
Output Voltage	200/208/220/230/240 VAC	
Voltage Regulation	$\pm 1\%$	
Frequency Range (Synchronized Range)	47 Hz ~ 53 Hz or 57 Hz ~ 63 Hz	
Frequency Range (Batt. Mode)	50 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio	03:01	
Harmonic Distortion	$\leq 3\%$ THD (linear Load)	
Transfer Time	AC to DC	Zero
	Inverter to Bypass	4 ms (Typical)
Waveform (Batt. Mode)	Pure Sine wave	
To AC Mode	88%	
To Battery Mode	83%	
Standard Model	Battery Type	12V/9AH
	Numbers	As per requirement
	Typical Recharge Time	4 hours recover to 90% capacity
	Charging Current (max.)	1.0A
	Charging Voltage	27.4 V DC $\pm 1\%$
Long-run Model	Battery Type	Depending on the capacity of external batteries
	Numbers	3
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0A, 6.0A default
	Charging Voltage	41.0 VDC $\pm 1\%$
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode and fault indicators	

Battery Mode		Sounding every 4 seconds
Low Battery		Sounding every second
Overload		Sounding twice every second
Fault		Continuously sounding
Standard Model	Dimension DxWxH (mm)	282x145x220
	Net Weight (kgs)	9.8
Long-run Model	Dimension DxWxH (mm)	282x145x220
	Net Weight (kgs)	4.1
Humidity		20-90% RH @ 0-40°C (non-condensing)
Noise Level		Less than 50 dBA @ 1 meter
Smart RS-232/ USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC
Optional SNMP		Power Management from SNMP manager and web browser

Installation

The installation shall be carried out with quality workmanship as per the specifications, approved shop drawings and to the satisfaction of client and consultant.

Material Approval

Upon award of the job, the contractor shall submit technical data sheets of all components to be used for the system in the project for consultant's approval. The submittal shall include product's technical data sheets from the manufacturer, compliance statement, OEM's authorization letter, company profile, reference list etc.

The material procurement may commence only after getting approval of material submittal and shop drawings.

Shop drawings

Upon award of the job, the contractor shall submit a set of shop drawings for the approval of the consultant. Contractor must submit shop drawings clearly indicating location of cameras, network video recorders, LED monitor, racks, server PC, cable route, installation method of cameras etc. before commencement of work.

A schematic diagram must be submitted to have an overall view of the system. The symbols and mounting heights of all devices must be clearly marked in the layouts. The drawing must be submitted as hard copies of minimum A2 size.

Contractor must submit method statement and inspection report before commencing any installation.

Contractor may proceed with installation only after approval of shop drawings from the consultant.

Cat6 cable shall be drawn through PVC conduit from location of camera to the NVRs located in the server room of the building. PVC conduit to be used shall be of medium duty rigid type and contractor must use standard accessories of conduits like bends, couplers, junction boxes etc. from same manufacturer where ever required. The minimum size of PVC conduit shall be 25mm dia. PVC conduit shall be either concealed or surface type depending on the site requirement. If installed on surface, it shall be fixed on brick/concrete walls by means of GI saddles of proper size at regular intervals of 60cm. Contractor must coordinate with other services before finalizing the cable route and ensure that radio interference is avoided by keeping safe distance from other communication/electrical cables as mentioned in the specifications. PVC conduit may also be installed beneath

the concrete slab of typical floors by the method mentioned earlier. When cable needs to be terminated in any device, suitably sized connectors must be used.

When conduit run along walls or concrete slabs the plumb and line must be maintained to ensure good workmanship. Conduit shall not run at angles other than 90 degree (vertical or horizontal) to the wall or slab.

Power supply to the CCTV equipments shall be taken from outlets fed from UPS.

NVRs with hard disks shall be placed in server room of the building. Metal racks of suitable size must be used to keep the NVR.

All cables from cameras shall be concealed in the wall and terminated in NVRs by appropriate method.

LED monitor shall be fixed on the wall in the **security room** by using wall mounting kits. 6Amp UPS power point shall be provided by the contractor to hook up the monitor. Necessary power points to feed NVRS must be provided by the contractor.

Testing

CCTV system shall be tested in accordance with the specifications, the testing instructions provided by the manufacturer and to the satisfaction of the consultant and client.

Testing must be done by the specialist contractor for the system to ensure that all equipments are performing to the requirements as mentioned in the specifications.

Testing may be conducted in the presence of representatives from consultant and client.

Performance of each device in the system may be verified against the values mentioned in the specification. Any suggestions from consultant may be incorporated by the contractor before handing over of the system.

Warranty

The contractor must submit written guarantee duly signed by the manufacturer and installer of CCTV system for the period of 1 year from the date of substantial completion. The guarantee shall cover the repair and replacement of material with manufacturing defects and workmanship as directed by the engineer.

Other responsibilities

Training to the client

On successful completion of the work, contractor must conduct a training session to the client's representative in presence of the consultant. The session shall include familiarization of the system, operation, routine maintenance etc. Competent person from OEM must conduct the training session.

As built drawings and Maintenance manuals

On successful completion of the work, contractor must submit three sets of hard copies and

softcopy in DVD in AutoCAD format of latest version of as built drawings and operation & maintenance manual to the client. The document shall be submitted as directed by the consultant.

Note: Drawings attached with this tender document.

Approved List of Manufacturers – IP based CCTV system

Sl No	Description of the item	Make 1	Make 2	Make 3	Make 4
1	IP based varifocal bullet camera	Bosch	Axis	Pelco	Honeywell
2	IP based fixed bullet camera	Bosch	Axis	Pelco	Honeywell
3	IP based PTZ camera	Bosch	Axis	Pelco	Honeywell
4	Network Video Recorder	Bosch	Axis	Pelco	Honeywell
5	Hard disk Drive	Seagate	Thoshiba	Samsung	Hitachi
6	LED monitor	Sony	Samsung	Panasonic	LG
7	Server PC/monitor	HP	Dell	Lenovo	Sony
8	Ethernet Switch	Cisco	D link	Juniper	Telesis
9	UPS	Numeric	Intex	Luminous	I ball
10	SMF battery	Amaron	Exide	Panasonic	Bosch
10	Optical Fiber cable/accessories	Schneider	D link	Amp	
11	Cat 6 cable/patch cord	Schneider	Belden	D Link	Amp
12	Single core wire	Polycab	Havells	Finolex	RR Kable
13	Rack	APW	Rittal	President	Valrack
14	PVC conduit	Avon plastic	Precision	Balco	Konseal
15	Wiring accessories	Legrand - Myrius	MK - Blenze	Schneider - Livia	Panasonic -vision
16	HDPE pipe	Surya pipe	Radiance Technoplast	Hydroflex pipes	

GENERAL POINTS OF TECHNICAL SPECIFICATIONS

1. Warranty:

- a) **One year** Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment and work including wiring and all related items from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Consignee.
- b) 95% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.

2. After Sales Service:

After sales service should be available at the place of Consignee on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within **24 hrs**. The service should be provided by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the items supplied shall be available for at least 10 years from the date of supply.

3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the items to the satisfaction of the consignee, if demanded by the engineer in-charge.

- 4. **Annual Comprehensive Maintenance Contract (CMC):** 5 years required.

Section – VIII

Quality Control Requirements

(Proforma for equipment and quality control employed by the manufacturer(s))

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- 01 Name of the manufacturer
 - a. full postal address
 - b. full address of the premises
 - c. Email ID
 - d. telephone number
 - e. fax number

- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
 - a. normal
 - b. maximum

- 05 Total annual turn-over (value in Rupees)
- 06 Quality control arrangement details
 - a. for incoming materials and bought-out components
 - b. for process control
 - c. for final product evaluation
- 07 Test certificate held
 - a. . type test
 - b. . BIS/ISO certification
 - c. . any other
- 08 Details of staff
 - a. technical
 - b. skilled
 - c. unskilled

Signature and seal of the Tenderer

Section – IX

Qualification Criteria

1. The applicant should have a minimum average annual turnover Rs. 25 lakhs during the last three financial years ending 31st March 2016. Also the firm shall be profit making for atleast two years in the last five financial years ending 31st March 2016.
2. The applicant shall have the eligibility criteria and experience as follows:

Experience in similar work during the last 5 years ending last day of the month of October 2016.

Three similar works of value 40% or more of the estimated cost of work
Or
Two similar works of value 60% or more of the estimated cost of work
Or
One similar work of value 80% or more of the estimated cost of work
3. The applicant should submit successful completion certificate for the above works.
4. The firms should be registered with Income Tax and Service Tax Authorities and copies of PAN and Service Tax Registration have to be submitted along with application.
5. The applicant should have sufficient number of Technical and Administrative employees. The applicant should submit a list of these employees stating clearly how they would be involved in this work.
6. Vendor must have minimum 10 year experience in the CCTV design and installation field.
7. Vendor must have executed minimum one work in Govt. sector. Proof of which should be submitted.

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Tenderer : _____

Name and address of the manufacturer : _____

Order placed by (full address of Purchaser/Consignee)	Order number and date	Description of ordered goods and services	Quantity of ordered goods	Value of order (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)**
					As per contract	Actual		
1	2	3	4	5	6	7	8	9

Signature and seal of the Tenderer

** The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate duly notarised certification authenticating the correctness of the information furnished. If at any time, information furnished is proved to be false or incorrect, the earnest money and or performance security furnished will be forfeited. Such certificates from a third party or middleman other than actual end user will not be accepted. The satisfactory performance implies working satisfactorily without any complaint since the date of installation, commissioning & handing over to the end user as per the standard format enclosed.

Section – X TENDER FORM

Date_____

To

DVP(Tech.)

HLL Infra Tech Services Limited

HLL bhavan- Golden Jubilee block- 2nd floor,

Poojappura, Thiruvananthapuram-695012.

Ref. Your TE document No. _____ dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ (Description of goods and services) in conformity with your above referred document, attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the GIT clause 20, read with modification, if any in Section - III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any statutory Authorities as per govt. rules/procedures.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

(Signature with date)

(Name and designation) Duly authorised to sign tender for and on behalf of

SECTION – XI PRICE SCHEDULE

Bill of Quantities - IP based CCTV surveillance system.						
Part I - Lecture and Administrative Complex						
S. No.	DSR-2016	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
		DSR ITEMS				
1		Wiring for <u>circuit/sub main wiring</u> along with earth wire for the following size of FRLS pvc insulated copper conductor, s/c cable in surface/recessed medium class pvc conduit as required				
	1.14.1	3 x 1.5 sq mm	mtrs	200		
2	1.21.2	Supplying and fixing of <u>25 mm Medium class PVC conduit</u> along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	mtrs	800		
3	1.53.1	Supply and drawing of UTP 4 pair <u>Cat 6</u> LAN cable in the existing surface/recessed PVC conduit as required.	mtrs	1000		
4	7.1.1	<u>Laying</u> of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	mtrs	150		

HITES

5		Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required				
	14.15.1	63 mm dia OD-63 mm & ID-51 mm nominal	mtrs	200		
		SUB TOTAL				
		NON DSR ITEMS				
6		Supply, installation, testing and commissioning of TDN IR Outdoor Varifocal IP Bullet Camera , 1/3" CMOS, 3 MP, 2.7–12 mm MFZ, night vision compatible, PoE, Ethernet port, H.264, IP 66, ONVIF, UL & CE certified.	No	1		
7		Supply, installation, testing and commissioning of TDN IR Outdoor Fixed Lens IP Bullet Camera , 1/3" CMOS, 3 MP, 3.6 mm Fixed, night vision compatible, PoE, Ethernet port, H.264, ONVIF, UL & CE certified.	No	18		

HITES

8	Supply, installation, testing and commissioning of <u>IP NVR 32 channel</u> with 32 PoE ports, 4 SATA, audio 1 input 1 output, video 1 HDMI 1 VGA, recording resolution 5MP/3MP/1080P, 720P/ D1 @ 30 fps, Smart search supported, Remote access by DDNS & P2P, 4 channel alarm input and 2 channel relay output, 2 USB ports, PoE power - Max 25.5 W each or 130 W max. web based applications, ONVIF, UL & CE certified.	No	1		
9	Supply, installation, testing and commissioning of <u>Hard Disk drive</u> 4TB, Data transfer rate : 6 Gb/s, Form factor: 3.5-inch, Load/unload cycles : 300,000, Rotational speed (RPM) 7200, Acoustics (dBA): 25	No	4		
10	Supply, installation, testing and commissioning of <u>32 inch LED monitor</u> full HD LED monitor with resolution 1920X1080 pixel, contrast ratio 30000:1 dynamic, Interface TV, VGA, AV, YPBPR, USB, HDMI & audio input, including wall mounting accessories .Material shall be UL/CE listed	No	1		
11	Supply, installation, testing and commissioning of 8 port PoE <u>Ethernet switch</u> , 10/100/1000 Mbps, 2 SFP, Network Protocol and Standards. Bandwidth : 1.6 Gbps	No	3		

HITES

12		Supply, installation, testing and commissioning of Server PC , Intel i3 4th generation processor, 4GB DDR3 RAM,1TB HDD,1GB NVIDIA graphic card, optical mouse, Keyboard, DVD Writer. Genuine Win 8.1 Pro - Down grade to Win 7 professional	No	1		
13		Supply, laying, termination of 6 core optical fiber cable	mtrs	200		
14		Supply, installation, testing and commissioning of SFP modules	Nos	2		
15		Supply and installation of floor mounted 15U rack including cable manager, power supply units etc.	No	1		
16		Supply, installation, testing and commissioning of UPS , 1 kVA with one hour back up time, IGBT Based Rectifier, True Online Double Conversion with DSP Control Technology, Graphical LCD Display, Input Voltage window (110 – 280 Vac), Frequency Range (40 Hz-70 Hz), Noise level: Less than 50 dBA @ 1 meter with SMF batteries	No	1		
		SUB TOTAL				
		TOTAL AMOUNT FOR LECTURE COMPLEX				
Part II - Lab Complex						
S. No.	DSR-2016	DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT
		DSR ITEMS				

HITES

1		Wiring for <u>circuit/sub main wiring</u> along with earth wire for the following size of FRLS pvc insulated copper conductor, s/c cable in surface/recessed medium class pvc conduit as required				
	1.14.1	3 x 1.5 sq mm	mtrs	500		
2	1.21.2	Supplying and fixing of <u>25 mm Medium class PVC conduit</u> along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	mtrs	1500		
3	1.53.1	Supply and drawing of UTP 4 pair <u>Cat 6</u> LAN cable in the existing surface/recessed PVC conduit as required.	mtrs	2750		
4	7.1.1	<u>Laying</u> of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	mtrs	350		
5		Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required				
	14.15.1	63 mm dia OD-63 mm & ID-51 mm nominal	mtrs	300		

HITES

		SUB TOTAL				
		NON DSR ITEMS				
6		Supply, installation, testing and commissioning of 1.3 Megapixel 720P IP <u>IR PTZ camera</u> , 18X optical zoom, WDR, 100 Meters IR distance, TDN, DWDR, BLC, AGC, DNR, OSD, H.264 High Profile dual-stream, ONVIF 2.0, 24 privacy zones, 255 Preset, Support 8 auto cruise, 5 auto patrol tracks, 5 auto scan, 12VAC, Wall Mount, IP-66. CE, FCC, C-Tick certified.	No	1		
7		Supply, installation, testing and commissioning of TDN <u>IR Outdoor Varifocal IP Bullet Camera</u> , 1/3" CMOS, 3 MP, 2.7–12 mm MFZ, night vision compatible, PoE, Ethernet port, H.264, IP 66, ONVIF, UL & CE certified.	No	2		
8		Supply, installation, testing and commissioning of TDN <u>IR Outdoor Fixed Lens IP Bullet Camera</u> , 1/3" CMOS, 3 MP, 3.6 mm Fixed, night vision compatible, PoE, Ethernet port, H.264, ONVIF, UL & CE certified.	No	31		

HITES

9	Supply, installation, testing and commissioning of <u>IP NVR 32 channel</u> with 32 PoE ports, 4 SATA, audio 1 input 1 output, video 1 HDMI 1 VGA, recording resolution 5MP/3MP/1080P, 720P/ D1 @ 30 fps, Smart search supported, Remote access by DDNS & P2P, 4 channel alarm input and 2 channel relay output, 2 USB ports, PoE power - Max 25.5 W each or 130 W max. web based applications, ONVIF, UL & CE certified.	No	2		
10	Supply, installation, testing and commissioning of <u>Hard Disk drive</u> 4TB, Data transfer rate : 6 Gb/s, Form factor: 3.5-inch, Load/unload cycles : 300,000, Rotational speed (RPM) 7200, Acoustics (dBA): 25	No	8		
11	Supply, installation, testing and commissioning of <u>32 inch LED monitor</u> full HD LED monitor with resolution 1920X1080 pixel, contrast ratio 30000:1 dynamic, Interface TV, VGA, AV, YPBPR, USB, HDMI & audio input, including wall mounting accessories .Material shall be UL/CE listed	No	1		
12	Supply, installation, testing and commissioning of <u>8 port PoE Ethernet switch</u> , 10/100/1000 Mbps, 2 SFP, Network Protocol and Standards. Bandwidth : 1.6 Gbps	No	3		

HITES

13		Supply, installation, testing and commissioning of <u>24 port PoE Ethernet switch</u> , 10/100/1000 Mbps, 2 SFP, Network Protocol and Standards, Band width : 1.6 Gbps	No	1		
14		Supply, installation, testing and commissioning of <u>Server PC</u> , Intel i3 4th generation processor, 4GB DDR3 RAM, 1TB HDD, 1GB NVIDIA graphic card, optical mouse, Keyboard, DVD Writer. Genuine Win 8.1 Pro - Down grade to Win 7 professional	No	1		
15		Supply, laying, termination of 6 core optical <u>fiber cable</u>	mtrs	250		
16		Supply, installation, testing and commissioning of <u>SFP modules</u>	2	Nos		
17		Supply and installation of <u>floor mounted 15U rack</u> including cable manager, power supply units etc.	No	1		
18		Supply, installation, testing and commissioning of <u>UPS</u> , 1 kVA with one hour back up time, IGBT Based Rectifier, True Online Double Conversion with DSP Control Technology, Graphical LCD Display, Input Voltage window (110 – 280 Vac), Frequency Range (40 Hz-70 Hz), Noise level: Less than 50 dBA @ 1 meter with SMF batteries	No	1		
		SUB TOTAL				
		TOTAL AMOUNT FOR LAB COMPLEX				

HITES

		IP BASED CCTV SSSYTEM - TOTAL FOR LECTURE AND LAB COMPLEX				
TOTAL FOR ALL ABOVE including excise duty and vat [specify the expense nature in applicable percentage and value in INR)			INR			
Installation/commissioning including all expenses, applicable taxes and duties/levies (service tax, WCT, SBC, KKC etc. Transportation, Loading, unloading, storing material at site if required (material, Labour and other expenses)- [specify the expense nature in applicable percentage and value in INR)			INR			
GRAND TOTAL FOR this tender			INR			

Total Tender price in Rupees: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

Name_____

Business Address_____

Signature of Tenderer_____

Seal of the Tenderer_____

Place: _____

Date: _____

Seal of the Tenderer_____

PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT (CMC) AFTER WARRANTY PERIOD

1	2	3	4					5
Schedule No.	Brief Description of the Goods	Quantity (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			a	B	c	D	e	

* After completion of Warranty period

NOTE:-

1. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any). The quotation may also be given separately for AMC (Without spares but with labour charges included).
2. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated (mentioning percentage applicable). In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. Cost of CMC will be added for Ranking/Evaluation purpose.
4. The payment of CMC will be made as per clause GCC clause 21.1 (C).
5. All software updates should be provided free of cost during CMC period.
6. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Name_____

Business Address_____

Place: _____

Signature of Tenderer_____

Date: _____

Seal of the Tenderer_____

SECTION – XII
QUESTIONNAIRE

Fill up the Section XX – Check List for Tenderers and enclose with the Tender

1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”
2. Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the “Tenderer”) has submitted its quotation dated _____ for the supply of _____ (hereinafter called the “tender”) against the purchaser’s tender enquiry No. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the “Bank”) having our registered office at _____ are bound unto _____ (hereinafter called the “Purchaser”) in the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20____. The conditions of this obligation are:

- (1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) fails or refuses to furnish the performance security for the due performance of the contract.
 - or
 - b) fails or refuses to accept/execute the contract.
 - or
 - c) if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorised officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To
DVP(Tech.)
HLL Infra Tech Services Limited
HLL bhavan- Golden Jubilee block- 2nd floor,
Poojappura, Thiruvananthapuram-695012.

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to 30 (thirty) months from the date of Notification of Award i.e up to ----- (indicate date)

.....
(Signature with date of the authorised officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

SECTION – XVI

CONTRACT FORM - A

CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS

(Address of the Purchaser's/Consignee's office issuing the contract)

Contract No _____ dated _____

This is in continuation to this office's Notification of Award No _____ dated _____

1. Name & address of the Supplier: _____
2. Purchaser's TE document No _____ dated _____ and subsequent Amendment No _____, dated _____ (if any), issued by the purchaser
3. Supplier's Tender No _____ dated _____ and subsequent communication(s) No _____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers' Authorisation Form (if applicable for this tender);
- (ix) Purchaser's Notification of Award

Note : The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
 - (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/services	Accounting unit	Quantity to be supplied	Unit Price	Total price	Terms of delivery

Any other additional services (if applicable) and cost thereof: _____

Total value (in figure) _____ (In words) _____

- (ii) Delivery schedule

HITES

(iii) Details of Performance Security

(iv) Quality Control:

(a) Mode(s), stage(s) and place(s) of conducting inspections and tests.

(b) Designation and address of purchaser's inspecting officer

(v) Destination and despatch instructions

(vi) Consignee, including port consignee, if any

Warranty clause

Payment terms

Paying authority

**(Signature, name and address
of the Purchaser's/Consignee's authorised official)
For and on behalf of** _____

Received and accepted this contract

(Signature, name and address of the supplier's executive
duly authorised to sign on behalf of the supplier)

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

SECTION – XVII

CONSIGNEE RECEIPT CERTIFICATE
(To be given by consignee's authorized representative)

The following store (s) has/have been received in good condition:

- 1) Contract No. & date : _____
- 2) Supplier's Name : _____
- 3) Consignee's Name & Address with
telephone No. & Fax No. : _____
- 4) Name of the item supplied : _____
- 5) Quantity Supplied : _____
- 6) Date of Receipt by the Consignee : _____
- 7) Name and designation of Authorized
Representative of Consignee : _____
- 8) Signature of Authorized
Representative of Consignee with
date : _____
- 9) Seal of the Consignee : _____

SECTION – XVIII**Proforma of Final Acceptance Certificate by the Consignee**

No _____

Date _____

ToM/s _____

Subject: Certificate of commissioning of equipment/plant.

This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

(a) Contract No _____ dated _____

(b) Description of the equipment(s)/plants: _____

(c) Equipment(s)/ plant(s) nos.: _____

(d) Quantity: _____

(e) **Bill of Loading/Air Way Bill/Railway**

Receipt/ Goods Consignment Note no _____ dated _____

(f) **Name of the vessel/Transporter:** _____(g) **Name of the Consignee:** _____(h) **Date of commissioning and proving test:** _____**Details of accessories/spares not yet supplied and recoveries to be made on that account.**

Sl. No.	Description of Item recovered	Quantity	Amount to be
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The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfil its contractual obligations with regard to the following:

He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract

is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is _____ (here indicate the amount).

Signature

Name

Designation with stamp

Explanatory notes for filling up the certificate:

He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.

He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

Training of personnel has been done by the supplier as specified in the contract

In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

SECTION – XX**CHECKLIST****Name of Tenderer:****Name of Manufacturer:**

Sl. No.	Activity	Yes/ No/ NA	Page No. in the Tender document	Remarks
1. a.	Have you enclosed EMD of required amount for the quoted item(s)?			
b.	In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?			
c.	In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno-Commercial Tender Opening date as per clause 19 of GIT?			
2. a.	Have you enclosed duly filled Tender Form as per format in Section X?			
b.	Have you enclosed Power of Attorney/ Partnership Agreement in favour of the signatory attested by a Notary Public?			
3.a	Are you a SSI unit, registered with NSIC under Single point registration Scheme or registered with DGS&D for the quoted items? If so, have you enclosed a copy of the registration certificate?			
b.	Are you enlisted with DGS&D as Indian Agent under the compulsory Enlistment Scheme of Ministry of Finance, Govt. of India? If so have you enclosed a copy of the enlistment certificate?			
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			

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Sl. No.	Activity	Yes/ No/ NA	Page No. in the Tender document	Remarks
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
5. a.	Have you submitted satisfactory performance certificate from the end users in respect of all orders mentioned in the Proforma for performance statement in Sec. IX of TE document.			
b.	Have you submitted copy of the supply order(s) and Performance Certificate from end user?			
6.a	Have you submitted manufacturer's authorization as per Section XIV?			
b.	Have you submitted a copy of the agreement between you and your Principal as per clause 14 of GIT?			
7.a	Have you submitted prices of goods, turnkey (if any)etc. in the Price Bid as per Section XI?			
b.	Have you submitted with your Price Bid your Principal's /Manufacturer's Original Proforma Invoice indicating FOB value and Indian Agent Commission?			
8.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
9. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
b.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			

HITES

Sl. No.	Activity	Yes/ No/ NA	Page No. in the Tender document	Remarks
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number?			
11.a	Have you fully accepted payment terms as per TE document?			
b.	Have you accepted “terms of delivery” as per TE document?			
12.	Have you fully accepted delivery period as per TE document?			
13.	Have you confirmed that the terms of delivery shall be “Delivery at Consignee Site”?			
14.	Have you accepted the warranty as per TE document?			
15.	Have you accepted all other terms and conditions of TE document?			
16.a	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			
b.	Have you given “write up” as asked for in Qualification Criteria (Section IX) under Note 2 ?			
17	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			
18	Have you submitted the certificate of incorporation?			
19	Have you submitted the Quality Control Requirement as per Section VIII?			

N.B.

- All pages of the Tender should be page numbered and indexed.**
- The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.**

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3. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any. Non submission of the above information/documents makes the bid liable to be ignored without any further reference to the Bidder.

(Signature with date)

(Full name, designation & address of the person duly authorised sign on behalf of the
Tenderer)
For and on behalf of

(Name, address and stamp of the tendering firm)

Section – XXI

Consignee Addresses:

**The Director
JIPMER,
JIPMER-II campus (Phase-1)
at Karaikal, Puducherry**

NB: The consignee will ensure timely issue of statutory documents- Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.