

**M.P. POWER TRANSMISSION CO. LTD.
STATE LOAD DESPATCH CENTRE,
JABALPUR**



**TENDER SPECIFICATION NUMBER
PROJECT LDET- 01/2014**

FOR

**SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING OF ELECTRONIC
SURVEILLANCE SECURITY SYSTEM AT SLDC,
MPPTCL, JABALPUR.**

TENDER COST ₹ 500.00 + ₹ 150.00 (POSTAL CHARGES)

**OFFICE OF SUPERINTENDING ENGINEER (LD:E&T)
STATE LOAD DESPATCH CENTRE, MPPTCL,
NAYAGAON, RAMPUR, JABALPUR – 482 008 (M.P.)**

WEBSITE <http://www.sldcmpindia.com>

**MADHYA PRADESH POWER TRANSMISSION CO. LTD.
STATE LOAD DESPATCH CENTRE, JABALPUR**

Phone No. 0761 – 2702744

Fax No. 0761 – 2664343

TENDER NOTICE

Sealed Tenders are invited for supply, installation, testing and commissioning of Electronic Surveillance Security System: -

S. No	Tender Specification No.	Particulars	Cost of Tender Document (₹.)	Postal charges (If required by Post) (₹.)	Due Date of Opening
1	LDET-01/2014	Supply, Installation, Testing And Commissioning Of Electronic Surveillance Security System	500.00	150.00	15.09.2014

PURCHASE OF TENDER DOCUMENTS:

The Tender documents can be obtained from the office of the undersigned on payment of the Tender Cost (Non refundable) as indicated above through **CROSSED BANKER'S CHEQUE/ DEMAND DRAFT ONLY** made out in the favour of **RAO, MPPTCL-SLDC, JABALPUR** payable at Jabalpur. The Bidders should deposit the Earnest Money strictly as per the instructions stipulated in the tender document unless they are exempted by the purchaser to do so. The tender form and detailed specification will be issued on any working day till 05.30 PM, one day prior to the tender opening date. It is obligatory for the Bidders to purchase tender document otherwise tender received from them will not be opened/accepted.

TENDER RECEIPT AND OPENING:

The Tender shall reach the office of the undersigned not later than 2.30 PM on the specified due date. The Tenders will be opened on the same date at 03.30 PM in this office in presence of the Bidders or their authorized representative, whosoever may be present. The purchaser reserves the right to accept or reject any or all the offers in part or full without assigning any reason whatsoever.

The Tender Notice is also hosted at the websites of SLDC(www.sldcmpindia.com) and MPPTCL (www.mptransco.nic.in).

Date : 08.08.2014

**SUPERINTENDING ENGINEER (LD:E&T)
SLDC, MPPTCL Jabalpur**

Tender document S.No issued to
.....

Cost of Tender document Rs.....

Received vide **DD** No.....

**SIGNATURE & SEAL OF
ISSUING OFFICER**

**STATE LOAD DESPATCH CENTRE
M.P.POWER TRANSMISSION COMPANY LIMITED,
JABALPUR M.P.**

**TENDER FORM
(To be furnished by the bidder)**

The undersigned hereby tender and offer (subject to **Company's** conditions of tendering) the **State Load Despatch Centre, MPPTCL, Jabalpur (MP) (hereinafter referred to as 'SLDC, MPPTCL, Jabalpur')** for to Supply, Installation, Testing And Commissioning Of Electronic Surveillance Security System and do the several works and things which are described or referred to in the enclosures and schedules to the specification LDET -1/2014, copies of which are annexed hereto and which under the terms thereof are to be supplied, executed and done by the contractor in a thoroughly good and workman like manner and to perform and observe the provisions and agreements or the part of the contract contained in or reasonably to be inferred from the said tender documents for the sums and at the rates set out in schedules annexed hereto.

It is confirmed that (i) Questionnaire for Commercial terms and conditions (ii) Questionnaire for technical specification of Project Management software and (iii) All other conditions-where ever described in the tender document have been replied in full giving clear details. It has been noted that in case any reply is not given or any reply is incomplete/ambiguous, the Company will have the right to take the same to be advantageous for the Company. Company's decision in this regard will be final. The Bidder will have no right to furnish any technical or commercial clarification after opening of the offer, which may in any way alter the offered prices.

Dated thisday of.....

Bidder's Signature
Bidder's Address

SECTION I
GENERAL CONDITIONS & INSTRUCTIONS TO
THE BIDDERS

SECTION – I
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GENERAL CONDITIONS & INSTRUCTIONS TO THE BIDDERS

1.0 GENERAL DESCRIPTION:

- 1.1 The Electronic Surveillance Security System shall be used to monitor and prevent intrusion into the SLDC building.
- 1.2 The specification covers the supply, installation and commissioning of Electronic Surveillance Security System.
- 1.3 The bidder shall study the specification and satisfy himself thoroughly & shall take full responsibility of the smooth, reliable and safe working of Electronic Surveillance Security System.
- 1.4 All items/instrument shall be completed in all respects and any item/instrument not covered in the specification but essential for proper installation, operation and maintenance of the instrument shall be included by the bidder in his offer and the reasons for such inclusion shall be clearly stated.

2.0 SCOPE OF WORK:

- 2.1 This specification covers the supply, installation and commissioning of complete Electronic Surveillance Security System comprising of dome cameras at different locations inside the SLDC building, Night vision IR cameras on the strategic locations of the building with Network video recorders, Administrative & security Post monitoring Systems, Door Frame Metal Detector, Hand Held Metal Detector and cabling etc. for surveillance Security of the SLDC Building from local centralized location.
- 2.2 Supply of necessary items, equipment and spares.
- 2.3 Packaging, forwarding, transport, insurance, loading, unloading, precaution against damage during transit etc.
- 2.4 Performance Guarantee.
- 2.5 Two sets of operation and maintenance manuals.
- 2.6 Test Certificate: Bidder shall provide all necessary test certificates.

The Bidders are requested to go through the tender document carefully and furnish the required details in Schedule-I to IX. It may be noted that furnishing of all information as required in above Schedules is a must. Incase, any of these schedules duly filled in is not furnished or confirmations as required in the Schedules are not given, the Bid will be treated as

incomplete and may be liable for rejection without any correspondence by the State Load Despatch Centre, MPPTCL. The offer shall comply the following:

The offer shall be strictly for genuine items covered under the tender and conforming to Technical Specifications stipulated in Section – II.

Important Note:

- i. The Bidder shall invariably fill-in all the fields of schedules enclosed with the tender specification.
- ii. The offer shall be strictly for genuine items for particular make/type of equipments conforming to Technical Specifications stipulated in Section-II of this tender document along with brochure.
- iii. Please do not use the word such as equivalent/better/similar for make or model of the items to be offered.
- iv. The bidder shall avoid the use of vague terms such as 'extra as applicable' Otherwise such tenders will be rejected.
- v. The bidder shall clearly indicate the applicable tax and its rate. Please avoid using of words such as inclusive/Nil in the price bid.

3.0 DETAILED SPECIFICATION:

3.1 Detail technical specification and other particulars have been described in enclosed Section-II of the tender document.

4.0 GOODS TO BE PROCURED:

The quantity of equipment for Electronic Surveillance Security System consisting of Dome Cameras, Night vision Bullet cameras with Network video recorders, Administrative & security Post monitoring Systems, Door Frame Metal Detector , Hand Held Metal Detector and cabling etc. to be procured against this Bid Specification has been indicated in Schedule-I, based on which prices are to be quoted.

5.0 PROCEDURE FOR THREE PART BIDDING: - Bidders are requested to submit their offer strictly in line with this clause. The submission of Earnest Money Deposit is mandatory requirement. The Offers are required to be submitted in triplicate (Original + Two copies) in separate sealed envelopes for which following details may be noted and the Offer will be submitted accordingly:-

5.1 ENVELOPE - I : EARNEST MONEY DEPOSIT :

5.1.1 The Bidder shall furnish as part of its Bid, Earnest Money along with their offer. An amount equal to ₹. 12000.00 shall be submitted towards Earnest Money Deposite by the bidder.

(i) Earnest Money shall be furnished in the following manners:-

a. In Cash to be deposited with RAO, MPPTCL, JABALPUR. Money Receipt, so obtained from the office of RAO, MPPTCL, JABALPUR should clearly indicate date, value of earnest money deposit, Tender Specification number (i.e. LDET -01/2014 due on 15.09.2014) for which earnest money has been deposited by the Bidder. Money Receipt in original should be submitted by the bidder alongwith the offer in "Earnest Money Deposit" envelope.

or

b. By Bank Draft in favour of RAO, MPPTCL- SLDC , JABALPUR. Original Demand Draft should be submitted by the Bidder alongwith the offer in "Earnest Money Deposit" envelope.

or

c. By Bank Guarantee as per Proforma enclosed with the Bid Specification. Original Bank Guarantee should be submitted by the Bidder alongwith the offer in "Earnest Money Deposit" envelope. The Proforma of bank guarantee is enclosed as Proforma-II

(ii) The following are exempted from payment of Earnest Money.

- a. Registered small-scale industries of Madhya Pradesh.
- b. Ancillary units of Madhya Pradesh State Electricity Board.
- c. M.P. State/Central Government undertakings or fully owned State Govt. Manufacturing unit with 100% Govt. shares.
- d. Small-scale units enlisted with the National Small-scale Industries Corporation for Central Govt. Stores Purchase Programmer.

(iii) If the earnest money is not submitted, the offers shall be summarily rejected and shall not be opened subject to the conditions indicated in Clause 5.1 (iii) above.

(iv) The EMD of participating Bidders shall be released only after completion of all contractual formalities including submission and acceptance of Security Deposit towards Performance Guarantee by the successful Bidder.

(v) The Bidders covered under category 5.0 (iii) are required to submit notarized copy of relevant documents for claiming exemption in furnishing earnest money. Further, Registration Certificate should clearly certify that the supplier is registered for the manufacture of the item offered. If this is not complied with, the Bid will be rejected.

(vi) SSI/ NSIC certificate should clearly indicate validity period of the registration. In case this is not specifically indicated, the registration will be treated as invalid and offer will be ignored. Validity of certificates should be available minimum upto the period of validity of offer.

5.2 ENVELOPE-II: PART I - TECHNICAL BID:

5.2.1 In this Bid, the Bidders will have to furnish confirmation in regard to compliance of our entire technical requirement. The Offer should clearly describe various technical particulars of the offered Electronic Surveillance Security System in Schedule-II of this specification enclosed. Also along with above information all details required in **Schedule-II to Schedule-XIV** should be furnished, so that we may be able to examine whether the Bid submitted is technically acceptable or not. Also Schedule-III of Technical Questionnaire should be submitted in this envelope dully filled in with complete details.

5.2.2 Our technical requirements are very clearly stipulated in various clauses of Section-II of the tender document. It would be obligatory for all Bidders to furnish required technical schedules and also to specifically confirm that they are agreeable to meet all our technical requirements.

5.2.3 Technical literature giving constructional, operational and other details of each and every equipment/material that are offered in the tender shall also be furnished.

5.2.4 **The Bidders are requested to furnish the latest certificate of all type tests conducted at any independent recognized institute on material / equipment offered by them as per our specification. These type tests should have been conducted within last five years. In case the type tests were carried out earlier than five years, the manufacturer will have to conduct these tests before commencement of supply. In both the above cases type test certificate must be submitted with the offer.** In the absence of this, no query shall be made and Purchaser will be at liberty to reject any such offer, which is not satisfactorily supported with requisite test certificates.

5.3 ENVELOPE-III: PART II - COMMERCIAL BID:

5.3.1 In this part of tender, the Bidder should clearly spell out confirmation in regard to various commercial terms and conditions for supply. The basis of price, acceptance of various important terms and conditions for supply and questionnaire for commercial terms and conditions for supply duly filled-in will form part of Commercial Bid. The Bidder, therefore, should furnish all information clearly. **It may please be noted that it is obligatory on the part of Bidders to comply with all our commercial terms and conditions.**

5.3.2 ENTRY TAX: As far as payment of State Entry Tax is concerned, the same shall be paid directly by SLDC, MPPTCL and no liability on this account will devolve on the Bidder.

In regard to State Entry Tax, it may be noted that while evaluating comparative prices, implication of entry tax payable on the equipment/material will also be taken into account and only on this basis the final comparative prices will be worked out. This is being clarified so that the Bidders may not have any misunderstanding that the loading towards entry tax as per prevailing rules for suppliers within MP and outside MP will not be taken into account for the purpose of price comparison. Thus the Bidders may please note that implication of entry tax will also be taken into account while working out final comparative prices.

5.4 ENVELOPE - IV: PART III - PRICE BID:

5.4.1(a) The price shall be quoted by the bidder on FIRM basis. FOR Destination rates must be quoted clearly giving break-up of prices as per Schedule-I. Also in this schedule price variation formula for Electronic Surveillance Security System and basis of prices with base date and indices should be brought out. No other information should be furnished in the Price Bid since price bid shall be opened at a later date. It may be mentioned that no such information should be furnished in the Price Bid which may not be in conformity with the details furnished in commercial and technical Bids. In case of any discrepancy, suitable loading on prices will be considered, for which responsibility will rest on the Bidders.

The Bidders are required to enclose a copy of the Un-priced Schedule-I “Prices & Quantity” (i.e. without mentioning any prices in Schedule-I clearly indicating quantity stipulated in tender & quantity offered by the Bidder. Complete details of applicable taxes & duties for Electronic Surveillance Security System and basis of prices with base date and indices should be brought out and shall be clearly indicated in the Un-priced Price Schedule-I.

The Bidders shall quote their prices on FOR Destination basis giving breakup of prices as under;

- (i) Ex-factory Price including packing & forwarding,**
- (ii) Freight charges including unloading at site and insurance charges if any,**
- (iii) The present rate of Excise Duty, Sales Tax / VAT, State Entry Tax, Service Tax or any other tax as applicable,**

5.4.1 (b) Rebate: In case, any rebate is offered, the same is to be indicated clearly and the application methodology should be mentioned specifically to avoid any ambiguity.

5.4.2 FREIGHT CHARGES:-

5.4.2.1 Notwithstanding whatever is appearing in various sections and schedules of enclosed Tender document, the Bidders may please note that our final requirement in regard to offering of charges for transport of material/ equipment is as under-

“ The road transportation charges (including loading of material into the truck or any other suitable mode of transport, at firm’s works, transportation from the works to the specified destinations, unloading and stacking of material at our Stores) shall be indicated in the break-up of F.O.R. destination prices mentioned in Schedule-I. The transportation charges shall be on “FIRM” price basis and therefore, no price variation on transportation charges, on any account whatsoever, shall be permitted. The responsibility of safe transportation of material up to various destinations shall rest with the Supplier. The unloading and stacking of material at our Stores and verification/counting thereof shall be arranged by the supplier.

5.4.2.2 TRANSIT INSURANCE CHARGES:-

The Bidders are not required to offer for transit insurance charges since transit insurance will be excluded from the scope of this Tender and will also be excluded from the scope of contracts which would be placed against this Tender. Although transit insurance has been excluded from the scope of supply, responsibility for safe delivery of Electronic Surveillance Security System and its accessories up to the destination shall rest on the supplier, and therefore for this purpose necessary arrangement may be made by the Bidder at his cost.

While transit insurance is not covered under the scope of supply, it shall be the responsibility of the supplier to arrange transport through a duly registered Transport Agency and ensure proper packing so that there is no damage to Electronic Surveillance Security System and its accessories during transportation. Any loss or damage caused to the material during transit due to negligence on the part of supplier shall be made good by the supplier free of all charges within one month from the date of intimation by our consignee to this effect. The intimation will be sent within thirty days of receipt of material at site.

5.5 ENVELOPE-V: This large envelope should contain all the above four envelopes.

6.0 TENDER OPENING PROCEDURE FOR THREE PART TENDERING:-

6.1 Please note that the Tender will not be opened at the time of tender opening if Earnest Money Deposit is not deposited in cash, demand draft for the value of tender or in the form of BG, unless exempted by the Company.

6.2 The large envelope (Envelope-V) containing all the 4 envelopes (i.e. Envelope I, II, III) will be opened on the due date of tender opening. Out of 4 envelopes, Envelope-I containing EMD shall be opened first & EMD shall be verified for its form & amount in line with tender requirement as per Clause 5. After completion of verification, Envelope II (containing Part-I "Technical Bid") and Envelope III (containing Part-II "Commercial Bid") will be opened.

6.3 The Envelope IV (containing Part-III "Price Bid") will be retained by us duly sealed and unopened. After scrutiny of Technical Bid and Commercial Bid, decision will be taken for selection of tenders for the purpose of opening of Price Bid (Part-III). For the purpose of opening of Price Bid, the Bidders whose techno-commercial Bids are in line with MPPTCL requirement, shall be informed separately the exact date and time so that they may depute their representative for attending Price Bid opening.

6.4 In case, the above instructions are not followed properly and if any of the envelopes is not available for inspection and opening, no representation at the time of tender opening will be entertained and such bids will not be opened. The tenders should reach the office of Purchaser, on or before 2.30 PM on due date of opening. The tenders received after 2.30 PM on due date, due to any reason whatsoever including postal delay etc., will not be considered and will be returned unopened. It is the responsibility of the supplier to ensure that the tender and earnest money are received in the office before the specified time and date. The tenders will be opened in the office of the Purchaser, at 3.30 PM on due date.

6.5 Bidders are requested to make a note of the fact that we have a time bound plan ,it will not be possible to entertain any request for extension in due date of opening of tenders against this tender specification.

6.6 In case of SSI/NSIC units, it should be ensured that a photocopy of registration certificate is furnished with the original tender. The registration certificates should clearly certify that the supplier is registered for the manufacture of the items offered. If this is not complied with, the tender will be rejected. The registration should be valid at the time of submission of tender. It may please be noted that if NSIC registration is not valid on the date of tender opening and Bidder has applied for extension of the same then its revalidation should reach the office of Purchaser before opening of price bid otherwise their price bid shall not be opened.

6.7 SSI/NSIC certificate should clearly indicate validity period of the registration. In case this is not specifically indicated the registration will be treated as invalid and offer will be ignored. Validity of certificate should be available minimum up to the period of validity of tender.

6.8 Bid necessarily have to be on FOR Destination basis. The prices quoted should be for free delivery at State Load Despatch Centre, MPPTCL, Nayagaon, Rampur, Jabalpur-482008 and inclusive of freight (including unloading at site / Trans. Stores) as also applicable taxes/duties/service charges on the same. Break-up of quoted prices into ex-works and freight should also be necessarily furnished. Please note carefully that bids on basis other than FOR Destination are liable for rejection.

7.0. VALIDITY OF OFFER:- All Tenders are required to be kept valid for a period of 4 months from the date of opening of price Bids. In case validity period is found to be short at the time of opening of Tender, all such Tenders may be rejected and returned.

8.0 While submitting the tender, it shall be ensured that the schedules are strictly in prescribed forms. The Bidder may use the original forms of schedules supplied with the tender specification or may use separate sheets.

In any case, the tender form bearing the seal of this office should be filled in original. The tenders should be completed with all schedules attached to the specification including the questionnaire, guaranteed particulars etc. This is very essential. The questionnaire should be answered in full otherwise the tenders are liable to be rejected.

9.0 The Bidder is requested to go through the specification schedules, notes and all enclosures carefully. Doubts if any should be got clarified well in time by writing to the Purchaser.

10.0 The SLDC, MPPTCL reserves the right (i) to reject any or all tenders or to accept any tender considered advantageous to the Company whether it is the lowest tender or not and (ii) to split the quantities against the tender on more than one firm for the same items/works. No reasons will be assigned by the SLDC, MPPTCL for this and this will be binding on the Bidders.

11.0 In case the date of opening of the tender is declared a holiday, the tenders will be received and opened on the following working day at the specified timings without any prior intimation.

12.0 When tenders are delivered by special messenger, the same should be deposited in the tender box kept in the office of Purchaser on working days between **10.30 AM to 2.30 PM**. No-body is authorized to receive or grant receipt for tenders delivered by hand.

13.0 Offers by fax or E-mail will not be considered. Tender received after specified hours and date will not be considered and will be returned unopened. The Company will not be responsible for the postal delay in delivery of tender.

14.0 All tenders should be made out in English. Tenders if submitted in any other language must be accompanied by English translations.

15.0 Tenders should be furnished duly bound or firmly stitched in required copies. Each copy should be complete in all respects i.e. all enclosures should be attached separately with each copy. All pages/ pamphlets/ drawings/certificates should be numbered serially.

16.0 EVALUATION ,QUALIFICATION AND EXPERIENCE CRITERIA:-The firm/company executing the Electronic Surveillance Security System herein after referred as “Bidder” shall meet the following pre-qualification requirement:

16.1 (a) The vendor/ System Integrator (SI) must have a proven track record of installing high end CCTV Systems & Metal Detectors(DFMD/HHMD) in India. The SI should have carried out the installation, testing and commissioning of at least two numbers of CCTV systems for remote monitoring (Minimum 5 locations having at least 4 cameras at each site) within last seven years and at least one such system should be under successful operation for at least two years as on the date of first stage of bid opening. Documentary evidence shall be required to establish the same.

(b) The Vendor shall have a local presence in India since the last 2 years and shall have necessary infrastructure to provide after sales service support. Necessary documentary evidence must be attached with the bid.

(c) Vendor shall get the OEMs confirmation that the equipments supplied shall not be obsolete in the next 5 years and Spares/service support shall be provided for a period of at least 10 years.

(d) Original Manufacturer should have a presence in India directly through complete support infrastructure to provide Spares and After Sales support. Vendor shall enclose documentary evidence for the same.

(e) Vendor must enclose List of references from the Manufacturer clearly demonstrating the experience in providing offered CCTV systems / Cameras etc. for EMI/EMC environment. A performance certificate in support of the claim shall be enclosed.

16.2 (a) The bidder shall enclosed proof of local registered service tax no. in the name of bidder with the tender.

(b) The Performance Certificate of any three govt. organization shall be attached with the bid where the bidder has installed the Electronic Surveillance Security System.

(c) The bidders who do not substantiate period mentioned above will not qualify for the selection and MPPTCL at its option may not consider price bid of such of the bidders. The bidder shall submit along the offer the reference list of the similar work.

Note: Bidder must provide necessary supporting documents as proof in respect of the eligibility criteria mentioned above. In absence of supporting documents, the offer of bidder shall be treated as non-responsive.

16.3. SUPPLY CAPACITY:- The Bidders will have to substantiate that they have capacity to design, manufacture and supply the quantity of Electronic Surveillance Security System offered by them in the tender within specified delivery schedule.

16.4 Notwithstanding the experience and supply capacity criteria as mentioned above, which have to be necessarily complied with for the purpose of qualifying against the tender, it may be noted that the SLDC, MPPPTCL also reserves the right to take into account past performance of the bidder in regard to quality of supply of main equipment as well as its accessories, performance in regard to timely supplies and also performance in regard to making available supervisory services as well as after sales services. Past performance in MPPTCL will therefore be taken in to account while evaluating the offer.

16.5. *The purchaser reserves the right to waive minor deviations if they do not materially affect the capability of the bidder to perform the contract.*

17.0 COMPLETENESS OF OFFER:- The Purchaser shall rectify nonmaterial nonconformities or omissions. To this effect, the offered Price shall be adjusted, for comparison purposes only, to reflect the price of the missing of non-confirming item or component. The adjustment shall be made as under:

“The cost of minor omissions or missing items in the scope of supply, services, etc. will be added to the offered Price to allow for Tender comparison on an equal basis. The cost of all quantifiable non-material non-conformities or omissions from the contractual and commercial conditions will be evaluated. The Purchaser will make the price adjustment based on the maximum price quoted for the same item by the other Bidder”.

Bidders have to ensure before submission of their offer its completeness in regard to all qualifying requirements. The bidders has to ensure that required certificates of experience, performance, type tests, drawing etc., as required elsewhere in this document are necessarily attached with their offer. It needs to be appreciated that sufficient time is being allowed between invitation of tender and its opening. Bidders in case of doubt may feel free to seek clarifications required by them before submitting their offer. The Company may or may not seek any clarification on the details furnished in the offer of individual tenderer. Non submission of any details or document required may render their tender offer liable for rejection. **This may please be noted carefully.**

18.0 TERMS OF PAYMENT:-

18.1 The terms of payment for supply of equipment & material against this tender shall be as under;

(a) **80% Payment towards supply of equipment:** 80% payment of accepted Ex-Works cost along with 100% freight, taxes and duty shall be released after delivery of equipment at site on submission of invoices to order placing authority along with material receipt certificate (MRC) issued by the consignee, on completion of 30 days period from the date of submission of invoices along with all documents.

(b) **Balance 20 % payment towards supply of equipment:** Balance 20% payment towards the supply of equipment shall be released after submission of invoice along with certificate towards successful commissioning of Electronic Surveillance Security System on completion of 30 days from the date of submission of invoices along with all documents.

(c) **Installation & Commissioning Charges:** The installation & commissioning charges shall be paid on successful commissioning of the system on completion of 30 days from the date of submission of invoices along with all documents.

18.2 Terms of payment, which would be applicable for the equipments covered under the present tender specification has been specified under clause 18.1 above. It has been observed that in view of delay in submission of required documents or non-compliance of various procedures specified by MPPTCL for claiming payments, delay in release of payments take place. To avoid this, the complete procedure for claiming payments including details of documents to be submitted and various actions, which are to be taken by the Bidder after award of contract, has separately been detailed out in **Annexure-A** enclosed. It is desired that Bidder may go through the complete procedure and ensure compliance of the same, so that timely payments could be ensured.

19.0 DELIVERY/TIME FOR COMPLETION:

19.1 Timely completion of the Electronic Surveillance Security System would be the essence of the contract.

19.2 Supply, Installation & Commissioning of all Equipment/deliverables to be made **within 2 months** from the date of issue of detailed order.

The Bidder shall be entirely responsible for arranging the required quality/quantity of material/equipment

20.0 PENALTY:

20.1 The time for and the date of delivery of stores stipulated in the order shall be deemed to be the essence of the contract. In case of delay in execution of the order, the Company may at its option either (i) recover from the supplier/contractor a sum of 1/2%(half percent) of the FOR Destination (Landed cost without taxes & duties) price of any stores not delivered for a week or part of week upto a maximum of 10% (ten percent) or (ii) purchase elsewhere on account and at the risk of the supplier the stores not delivered or others of similar descriptions or (iii) cancel the contract.

20.2 In case of delayed delivery of material, the purchaser may at his option impose a penalty calculated at the above rate for such portion of equipment delivered which cannot be put to use for which it was meant as a consequence for such delay.

20.3 The date of offer of material will be treated as date of delivery for the purpose of calculating the penalty, provided the materials are received at SLDC within a period of 30 days from the date of issue of despatch instruction else the actual date of receipt of material by the consignee shall be taken as the basis for calculation of penalty. Please note that, in case material is not received within 30 days from the date of issue of dispatch instructions; even if there exists a margin in contractual delivery period, penalty for delay in physical dispatch and receipt shall be applicable.

20.4 Incase any of the Electronic Surveillance Security System is found to be defective in materials of workmanship or develops defects during service, same shall be replaced/ repaired by the supplier free of all charges within 30 days or within reasonable period as per specific agreement with order placing authority from the date of receipt of intimation. In case of delay in replacement/ repair of Electronic Surveillance Security System, the MPPTCL may at its option

recover penalty @ 0.50% of ex-works price for each week or part thereof subject to a maximum of 10%.

21.0 SECURITY DEPOSIT:-

21.1 Bidders may please note that security deposit equal to 10% of the total contract value shall be submitted within 30 days from the date of order for performance guarantee of equipments and faithful performance of contract. This is a mandatory requirement and if the successful tenderer fails to submit the Security Deposit for 10% value of order, the purchaser shall take action against the bidder as per terms of order which may include invoking risk purchase clause of the order

21.2 The supplier has to furnish security deposit in form of Cash / Demand Draft / Bank Guarantee to cover performance guarantee period for supply of materials covered in this specification.

21.3 The facility of depositing Permanent Security Deposit has been discontinued and hence the security deposit shall have to be furnished separately for individual procurement order / contract in the manner as indicated above.

21.4 The bidder may please note that in case if the security deposit for 10% value of order as mentioned above is not submitted within 30 days time from the date of placement of order. The purchaser may en-cash the bank guarantee submitted by the bidder towards earnest money deposit against this tender. Likewise suitable action may also be taken against the bidder who has submitted NSIC / SSI certificate towards earnest money deposit and also these firms may not be permitted for submission of NSIC / SSI certificate for participation in future tender.

22.0 RESPONSIBILITY FOR SAFE DELIVERY AT SITE: - Responsibility for safe delivery of the equipments up to the destination i.e. State Load Despatch Centre, MPPTCL, Nayagaon, Rampur, Jabalpur shall rest on the supplier. To meet this requirement, it shall be the responsibility of the supplier to arrange transport through a duly registered Transport agency and ensure proper packing so that there is no damage to the equipments and its accessories during transportation and unloading at site. Any loss or damage caused to the material during transit/unloading shall be made good by the supplier free of all charges within one month from the date of intimation by our consignee to this effect. The intimation will be sent within thirty days of receipt of equipments and its accessories at site.

Bidders are however advised to intimate well in advance to our consignee regarding dispatch of materials on his contact no./ Mobile no., followed by written confirmation, on receipt of dispatch instructions so that necessary arrangements could be made by him to take delivery of material at store/ site. Please also depute your representative immediately on arrival of material at the destination to arrange proper stacking and conducting physical verification to establish shortages / damages, if any, which should be replenished in shortest possible time say, within two / three weeks. On account of the above, if any delay occurs in issuance of MRC, shall be to the supplier's account.

23.0 CLIMATIC CONDITIONS AND ALTITUDES :- The equipment and materials offered shall be suitable for use in tropical climate and for site locations upto an altitude of 1000 meter (3000 ft) above mean sea level maximum ambient temperature of 50 deg. C (122

deg. F) and humidity approaching saturation for extended periods during the monsoon months when the dry bulb temperature may be of the order of 30 deg.C (86 deg. F to 95 deg. F.).

24.0 PERFORMANCE GUARANTEE:

24.1 Electronic Surveillance Security System, its accessories and Spares covered under the Tender shall be guaranteed for performance and quality for a period of 24 months from the date of despatch or minimum 18 months from the date of commissioning, whichever is earlier.

24.2 The following conditions shall also be applicable for the contract, to be placed against this tender:

- (a) In case any defect in the equipment/ material is found within guarantee period, the same will be replaced/ repaired by the supplier on free of cost basis. The replacement/ repairing will have to be organized by supplier expeditiously and preferably within one month's time.
- (b) If for the purpose of replacement/ repairs, the equipment/ material is required to be dispatched to supplier's works, all charges towards transportation/ insurance/ packing and forwarding will have to be borne by the supplier for to and fro dispatches.
- (c) If the equipment/ material develops defect within guarantee period after installation at site, for the purpose of replacement/ repairs, the same will have to be dismantled and taken out by SLDC, MPPTCL. In such cases, actual cost of dismantling, any other incidental cost and cost of re-erection/ re-assembly and replacement of the equipment/ material will also be recoverable from the supplier.
- (d) In case it is observed that replacement/ repairs of equipment/ material is not being provided to us within reasonable period and proper response is not received from the supplier, then apart from operating Clause of Penalty (which provides for imposition of penalty/ liquidated damages, risk purchase at supplier's cost and cancellation of contract) the MPPTCL may also take suitable penal action against the supplier which may include debarring him from all future business with the MPPTCL for a period which will be at the discretion of the MPPTCL.
- (e) In case after commissioning of equipment any operational problem is observed due to manufacturing defects and rectification or replacement is done, then the guarantee period of 24 months for such equipments shall commenced from the date of completion of rectification or replacement.**

25.0 SUBMISSION OF DRAWINGS AND INSTRUCTION MANUALS:- Within 15 days after receipt of acceptance of the order supplier shall submit for approval all drawings. The number of drawings received for approval and final drawings, operation and maintenance manual shall be submitted in accordance with the schedule which will be indicated in the order. Comments/approval on drawings shall be given by the purchaser within 15 days of receipt of drawings. Any fabrication work done prior to approval shall be at the supplier's risk. The supplier shall make all indicated changes in the design which are necessary to make the equipment conforming to the provisions of specification without any additional cost. Approval of the supplier's drawings shall not relieve the supplier of his obligation to meet the requirement of the specification or the responsibility for the correctness of supplier's drawings.

26.0 INSPECTION AND TEST CERTIFICATES:

26.1 All machinery, apparatus or materials supplied will be subject to inspection and approval by the purchaser's representative before despatch if possible otherwise on arrival at the destination. Inspection before despatch will not however relieve the supplier of his responsibility to supply strictly in accordance with the specifications.

26.2 All machinery, apparatus and materials shall conform to provisions of any statutory acts such as the Indian Electricity Act, Indian Factory Act, the Indian Boiler Act, etc. and corresponding rules and regulations as may be applicable.

26.3 The purchaser's representatives shall be entitled at all reasonable time during manufacture to inspect, examine and test at the contractor's premises the material and workmanship of the material to be supplied under this contract.

26.4 For Inspection / testing, the supplier shall intimate the purchaser 15 days in advance about readiness of material as per the scheduled delivery so that action may be taken for getting the material inspected. The material shall not be despatched unless waiver of inspection is obtained or the material is inspected by the purchaser's authorized representative. When the material has passed the specified tests, the purchaser's representative shall furnish a certificate jointly signed by him and contractor's representative to this effect in writing to the contractor in any case. While notifying the readiness of the equipment, the routine test certificates shall invariably be sent. The material shall not be despatched unless the test certificates are approved

26.5 These test certificates should be in accordance with latest issue of the relevant Indian Standards or as approved by the order placing authority.

27.0. FAKE INSPECTION CALL:- All such firms, who after giving inspection call, do not offer materials to inspecting officer for inspection due to one or the other reasons, shall be required to remit all expenses incurred in organizing inspection including travel expenses plus a sum of ` .10,000/- per officer per inspection call.

28.0 COMPLETENESS OF EQUIPMENT:- The equipment shall be complete in every respect with all minor fittings and accessories even though those may not be specifically mentioned in the purchaser's specification or the bidders offer. The supplier shall not be eligible for any extra price in respect of such minor fitting and accessories which can be considered as an essential part of the basic equipment even though not specifically mentioned in the specification or the offer.

If any minor accessory has not been stipulated but is essentially required for satisfactory operation of the equipment, the same shall be deemed to have been included in the prices and shall be supplied by the successful bidder without any extra cost.

29.0 WORKMANSHIP:- All materials shall be of the best class and quality most suitable for the conditions of operation under the climate conditions at the altitude indicated in these general conditions for supply of material. The workmanship shall be of the best grade and the entire construction in accordance with the best modern practice.

30.0 PACKING:- The supplier shall be responsible for the stores being sufficiently and properly packed at his expense for safe and secure transport by road and to withstand handling and transport at destination.

Each package shall be prominently and distinctly marked on at least two faces indicating the full address of the consignee, destination, name of equipment, purchaser's order number and volume of the package.

Each package shall contain in a water proof cover a detailed list indicating the order reference and date and listing the contents. Each item contained in the packing or box shall be described sufficiently to enable easy identification and the quantity, weight etc. shall be given. The packing shall conform to the specification, rules and regulations prescribed by the carriers.

Royalties for patents or any charges for the use or infringement thereof that may be involved in the supply shall be included in the offered prices. The supplier shall protect the purchaser against any claim thereof.

31.0 TERMINATION:- In the event of any breach of the terms of the order, the purchaser reserves the right to:

31.1 Cancel the order for part or whole of the machinery, apparatus or materials yet to be supplied without any liability.

31.2 To purchase from elsewhere on account and at the risk of the supplier part or whole of the machinery, apparatus or materials so affected.

32.0 FORCE MAJEURE: - Deliveries stipulated in the purchase order shall be subject to force majeure conditions. The force majeure circumstance/ conditions shall include strikes; go slow, lock-outs, war, fire accidents, earthquakes, floods, national calamity, riots and civic commotion. Prevalence of force-majeure will have to be got certified by appropriate Governmental agency. The cause of force majeure condition will be taken into consideration only if the supplier within 15 days from the occurrence of such delay notifies the purchaser. The SLDC, MPPTCL shall verify the facts and grant such extension as the facts justify, for which the supplier shall submit this representation with documentary evidence.

33.0 TRANSPORT:- The material shall be despatched by ROAD TRANSPORT through Registered Transport Agency on door delivery freight paid basis to the respective destinations in Madhya Pradesh. It is the responsibility of the supplier to ensure safe delivery of material at State Load Despatch Centre, MPPTCL, Nayagaon, Rampur, Jabalpur. The transportation includes material loading at bidder's works, transportation, and safe delivery of material including unloading at SLDC , MPPTCL, Nayagaon, Rampur, Jabalpur.

34.0 FREIGHT AND TRANSIT INSURANCE:- Bidder may please note that it shall be the responsibility of the supplier to arrange transport through a duly registered Transport Agency duly insured and ensure proper packing so that there is no damage to the material during transportation. Any loss or damage caused to the material during transit due to negligence on the part of supplier shall be made good by the supplier free of all charges within one month from the date of intimation by our consignee to this effect. The intimation will be sent within thirty days of receipt of equipments/ material and its accessories at site.

If the supplier fails to make good the loss or damage caused to the material, the consignee(s) shall be free to repair the damages / replace the shortages / losses from other

sources and they shall be free to recover the cost of such material / expenses of repairs either from the supplier / balance bills or from the security deposit as deemed fit.

35.0 PROVISION OF EXTENSION ORDER:- Bidders may please note that purchaser (SLDC,MPPTCL) reserves the right to place extension order for 50% additional quantity of ordered quantity of material on same rate, terms & conditions within **12 months** from date of placement of original order on successful bidder.

36.0 REPLACEMENT OF DEFECTIVE SUPPLIES:- Please note that the following conditions shall be applicable:-

(a) In case any defect in the equipment material is found within guarantee period, the same will be replaced / repaired by the supplier on free of cost basis. The replacement / repairing will have to be organized by supplier expeditiously and preferably within one month's time. It may please be noted that if repair/replacement of equipment/material is not organized within 3 months of notice of defects/failure being sent, Company shall recover the cost of such equipment from available payments/S.D. as the case may be without further notice and with such penalty as it may deem appropriate for non-compliance of contractual obligations.

(b) All other conditions, as described under clause 24, "Performance Guarantee" shall be applicable for the purpose of replacement of defective supplies.

37.0 PLACE OF MANUFACTURE, TESTING AND INSPECTION:- The name of the manufacturer and the place of manufacture, testing and inspection for various portions of the contract works shall be stated in the tender.

38.0 GUARANTEED AND GENERAL PARTICULARS OF THE EQUIPMENT:- The bidder shall indicate guaranteed particulars and performance figures in respective Schedules.

39.0 RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS :- Any amount recoverable from the successful bidder against earlier contract with the Company will be adjusted from payment due against the contract that may be awarded under this specification.

40.0 TRAINING (WHERE REQUIRED):

40.1 The Bidder shall provide training for installation and maintenance staff of the Purchaser free of cost, at site .

40.2 The Bidder shall specify in his bid the number of trainees, quantum of proposed training, pretraining qualifications required of the trainees and the duration of the proposed training required.

40.3 The Bidder shall provide all training materials and documents and aids.

41.0 LITIGATION HISTORY:- Bidders are requested to submit details of all litigation, arbitration and other claims whether pending, threatened or resolved in the last five years, with the exception of immaterial claims with cumulative possible impact of not more than 10% of the Bidder's total assets. The purchaser may disqualify Bidder in the event that the total amount of pending or threatened litigation, arbitration or other claims represents hundred percent (100%)

of the Bidder's net worth. Furnishing of this information by the tenderer is mandatory requirement.

42.0 TESTS AT SITE: - The procedure for carrying out such tests shall be intimated well in advance by the contractor to the purchaser and this will be subject to the approval of the later.

All the tests detailed in the respective sections of the specification for the equipment shall be carried out at the manufacturer's expenses at his works and the purchaser reserves the right to be represented at these tests. No shipment/despatch of any portion of the equipment shall be made till the relevant test certificates are approved by the purchaser. The site tests to be conducted shall be as agreed between the purchaser and tenderer at the time of placing the order.

43.0 PREFERENCE FOR COMPLETE OFFERS:- The purchaser would prefer complete offer for the supply of equipments required. The purchaser may not be in a position to consider offers for piecemeal equipments only and the tender may be compared on the basis of complete supplies.

44.0 COMPLIANCE WITH OTHER CONDITIONS:- Although all other conditions have clearly been spelt out in the tender document, **it is once again brought to the notice of bidder that they should go through the tender document carefully and comply all other conditions also like furnishing of type test report, furnishing of list of past supplies, Income Tax / VAT Clearance Certificate, Profit and Loss account, Balance Sheet for last three years, drawings and write-up for the manufacturing process.**

For verifying reasonability of prices by the purchaser, the bidders are required to enclose copies of orders under execution/executed recently for other Utilities along with tender for the offered equipment. It may be noted that the order copy must contain full scope of supply including price schedule etc. without any omission/deletion/hiding any information.

In nutshell, the offer at the time of submission of technical and commercial Offers itself should be complete in all respect. It should not be expected that in case of lack of any information, the MPPTCL will make any correspondence with the bidder. The documents and details as called for in the tender must be submitted without making any reference to submission of such certificate against past order, tender or past experience of supplies with the SLDC, MPPTCL etc. All tenders wherein these conditions are not complied with may run the risk of rejection without any correspondence from our side.

45.0 CORRUPT PRACTICES:- In case during Tender evaluation or after award of contract, it is found that the information furnished by Bidder are not correct and is engaged in corrupt/fraudulent practices in competing for the contract, the matter will be taken seriously. Under such circumstances either Tender will be considered as non-responsive or if contract is awarded, same will be cancelled immediately at the risk and responsibility of the Tenderer.

46.0 DEPARTURE FROM THESE CONDITIONS & SPECIFICATIONS:- Should the bidder desire to depart from these conditions and or related specifications in any respect, he shall draw attention to such departures stating fully the reasons thereof. Unless this is done, these conditions and concerned specifications will hold good.

47.0 POWER OF ATTORNEY:- The bidder may please note that Notarized Power of Attorney regarding confirmation of Authorization to sign on behalf of the Bidder shall necessarily be submitted along with the offer.

48.0 PURCHASE OF TENDER DOCUMENT:- The Tender documents can be obtained from the office of the undersigned on payment of the Tender Cost (Non refundable) as indicated above through **CROSSED BANKER'S CHEQUE/ DEMAND DRAFT ONLY** made out in the favour of RAO, MPPTCL - SLDC , JABALPUR, payable at Jabalpur. The tender document can also be downloaded from the SLDC Website having URL [http:// www.sldcmpindia.com](http://www.sldcmpindia.com) or MPPTCL Website having URL [http:// www.mptransco.nic.in](http://www.mptransco.nic.in). However, if the document is downloaded from the website, the tender cost shall be deposited separately by the bidder at the time of submission of tender document.

50.0 THE DUE DATE OF OPENING OF THIS TENDER IS 15/09/2014 AND NO REQUEST FOR CHANGE/ EXTENSION IN OPENING DATE OF TENDER SHALL BE ENTERTAINED BY SLDC, MPPTCL.

APPENDIX-A

IMPORTANT COMMERCIAL TERMS & CONDITIONS TO BE FURNISHED AND BE READ AT THE TIME OF TENDER OPENING

S. No.	Particulars	Details
1	Earnest Money Deposit (EMD) Amount, BG No. & Date	
2	Validity of Offer	
3	Whether SSI/NSIC unit	
4	Applicable rate of taxes duties	
	i. Excise duty	
	ii CST/VAT/MPGST	
	iii. Any other tax.	
5	Price Offered (Firm)	
6	Payment Terms	
7	Guarantee Period of Circuit Breaker	
8	Security Deposit	
9	Penalty towards delay in delivery	
10	Service for erection/commissioning	
11	Delivery period	

**SIGNATURE
WITH SEAL OF BIDDER**

Proforma-'I'

UNDERTAKING

(Completeness of Equipment)

We hereby undertake to confirm that Electronic Surveillance Security System has been supplied by us complete with all accessories, tools tackles and spares as specified in Schedule _____ attached with Order No. _____ dated _____ received by us.

While all the accessories associated with the equipment has been supplied, we undertake to supply any minor item which might not have been mentioned in the subject schedule but may be necessary for satisfactory operation of the Electronic Surveillance Security System.

**Signature & Name of Authorised Signatory
with seal of the Company**

Place:-

Date :-

PROFORMA- II

Proforma for Earnest Money Bank Guarantee

(To be executed on non-judicial stamp paper worth Rs. 250/- affixing revenue stamp worth Re. 1/-)

..... **Bank's Name, and Address of Issuing Branch or Office**.....**Beneficiary: S.E.(LD:E&T) State Load Despatch Centre , MPPTCL, Jabalpur** **Date:** **Bank Guarantee No.:**

We have been informed that **name of the Tenderer**..... (hereinafter called "the Tenderer") has submitted to you its bid dated (hereinafter called "the offer") for the execution of **name of contract**..... under Tender Specification No. LDET-1/2014.

Furthermore, we understand that, according to your conditions, bids must be supported by an EMD bid guarantee.

At the request of the Tenderer, we **name of Bank**hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of **amount in figures**.....[..... **amount in words**.....] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Tenderer is in breach of its obligation(s) under the bid conditions, because the Tenderer:

- (a) has withdrawn its offer during the period of validity specified by the Tenderer in his offer; or
- (b) does not accept the correction of errors in accordance with the Tender Specifications No. LDET-1/2014; or
- (b) having been notified of the acceptance of its offer by the *Purchaser* during the period of validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the performance security, in accordance with the Tender Specification No. LDET-1/2014.

This guarantee will expire: (a) if the Bidder is the successful Tenderer, upon our receipt of copies of the Contract Agreement signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Tenderer, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Tenderer; or (ii) one year from the date of opening of tender after the expiration of the Bidder's offer.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

..... **Bank's seal and authorized signature (s)**
.....

Note: All italicized text is for use in preparing this form and shall be deleted from the final document

SECTION II

TECHNICAL SPECIFICATIONS OF ELECTRONICS SURVEILLANCE SECURITY SYSTEM

SECTION –II

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TECHNICAL SPECIFICATIONS FOR ELECTRONIC SURVEILLANCE SECURITY SYSTEM

1.0 Introduction

The Electronic Surveillance Security System shall provide to ensure proper vigilance, safety & security of the equipment & personnel at SLDC. The Electronic Surveillance Security System shall comprising of dome cameras at different locations inside the SLDC building, Night vision IR cameras on the strategic locations of the building to monitor and prevent intrusion into the building, Digital Video Recording along with display for recording & monitoring of cameras, door frame metal detector and hand held metal detector.

2.0 Scope of the work

The Bidder shall design, engineer, supply, erect, test and commission & integrate the complete Electronic Surveillance Security System including cameras, Network video recorder system, applications/software, mounting arrangement for cameras, cables, media converters, enclosures and any other items/accessories required for a fully functional system.

The number of cameras and their placement shall be decided in such a way that any location in the SLDC can be monitored. The cameras shall be placed in position to monitor at least:

- (i) Main entrance gate
- (ii) Main Entrance of SLDC Building
- (iii) SLDC Control Room
- (iv) SCADA Room
- (v) Rear side entrance of SLDC Building
- (vi) Back side of Building (south side)
- (vii) NE side of SLDC campus.

The tentative requirement of cameras at each location is provided in the BOQ at annexure-1..

The Bidder shall provide a cost effective solution. It is in the interest of Bidder to do a site survey before placing their bid. The BOQ as given, covers only the major equipments of the system. Bidders are advised to assess additional items/ components as required to make the Electronic surveillance Security System completely operational and clearly indicated as a part of the bid.

All Civil, mechanical work, wherever required for completion of this job will be in scope of the Bidder. Further the Factory Acceptance Test (FAT), Site Acceptance Test (SAT) and training of nominated personal for operation and functioning of supplied Electronic surveillance Security System will be in scope of the Bidder.

3.0 General Technical requirements

The firm/company executing the Electronic Surveillance Security System herein after referred as “vendor” shall meet the following pre-qualification requirement:

- (a) The Vendor/ System Integrator (SI) must have a proven track record of installing high end CCTV Systems & Metal Detectors(DFMD/HHMD) in India. The SI should have carried out the installation, testing and commissioning of at least two numbers of CCTV systems for remote monitoring (Minimum 5 locations having at least 4 cameras at each site) within last seven years and at least one such system should be under successful operation for at least two years as on the date of first stage of bid opening. Documentary evidence shall be required to establish the same.
- (b) The Vendor shall have a local presence in India since last 2 years and shall have necessary infrastructure to provide after sales service support. Necessary documentary evidence must be attached with the bid.
- (c) Vendor shall get the OEMs confirmation that the equipments supplied shall not be obsolete in the next 5 years and Spares/service support shall be provided for a period of at least 10 years.
- (d) Original Manufacturer should have a direct presence in India through complete support infrastructure to provide Spares and After Sales support. Vendor shall enclose documentary evidence for the same.
- (e) Vendor must enclose List of references from the Manufacturer clearly demonstrating the experience in providing offered CCTV systems / Cameras etc. for EMI/EMC environment. A performance certificate in support of the claim shall be enclosed.

4.0 Design Criteria

The design criteria of the Electronic surveillance Security System shall fulfill the following main Objective of:

- (a) To monitor all the major equipments in the SLDC.
- (b) To monitor the entry/exit at the Main Gate, SLDC Building and Control Room
- (c) To get an alarms in case of an event
- (d) To monitor and control of the entire Electronic surveillance Security System from Administrative monitoring system.
- (e) To enable live, near real time viewing, recording of all selected cameras.

4.1 Electronic surveillance Security System Architecture:

There will be a Network Video Recorder (NVR) which shall continuously record the video from the IP based cameras installed at the respective location. The details of proposed cameras location along with approximate cable length is given in annexure- 7. It is here to mention that the length of cables /cable route mentioned in annexure-7 is indicative and same may change during implementation of the project. bidders are advised to carry out site survey for proper assessment of cable length before submitting their bids.

The surveillance and security system shall also include one number administrative terminal/console at SCADA room of SLDC and one clients at Security Post who can view the video (Live/recorded) from the cameras. The client shall work on a PC based environment. PCs for installing administrative terminal and client shall be provided by

the Bidder. The client shall have access to view the live & recorded video only & does not have administrative access. The bidder has to provide the necessary license required to meet the requirement. The outside camera shall be connected with NVR system through armoured UTP cable while inside cameras shall be connected with unarmoured UTP cable. Separate power cabling for cameras shall not be required as PoE switch is envisaged in the project. The NVR is required to be delivered with two way talk facility and the same shall be utilized between security check post and SLDC control room.

In addition to this, the ultra-sensitive door frame metal detector and hand held metal detector shall also required to be delivered so as to ensure security checking at SLDC main entrance.

4.2 System sizing and Expandability

The system shall be easily expandable by adding/ integrating new cameras , NVRs, Monitoring PC's, Electronic Surveillance Security System at new locations. The offered software shall have the capability/provision to support minimum 16 cameras. For this purpose, the Bidder shall supply all the necessary documents which are essentially required for modifications to be incorporated by the owner at a later date as per system requirement. The system shall also be capable of supporting at least two more client PCs to Electronic Surveillance Security System. Bidder shall extend all the assistance for implementation of these future expansion plans, as and when implemented.

4.3 Environment Requirements

Vendor is required to assess the environmental conditions for the equipment to be installed under this specification. The vendor has to ensure proper operation of the installed equipment. The equipment and its components should work satisfactorily under the following environmental conditions:

Environment Operating Limits
Temperature Range: -0 to +50 °C
Relative Humidity: Up to 95%

4.4 Maintainability

All equipments shall be designed to ensure continuous satisfactory operation for at least 10 years under the environmental conditions specified elsewhere in the document.

4.5 Software Licenses

All software related to NVR to be supplied under the scope of this tender shall have user license for life time use. The original license document shall accompany the software at the time of supply of the same. Software in suitable media along with original license from principles is to be supplied along with all passwords set at factory level for configuration change. The software shall not require new license for replacement of failed hardware. All the PCs supplied under this contract shall have licensed Anti-virus software installed on the system.

4.6 Power supply

The Electronic surveillance Security System shall operate on 220 ±15% VAC, 50 Hz single-phase Input power supply. The UPS power supply at each location shall be provided by the SLDC.

5.0 Technical Requirement/Specifications

Broad specifications for various CCTV based system required to meet the Electronic Surveillance Security System are defined in the following sections. Only the major equipments/sub systems are listed. Minimal technical specifications are provided here, the bidder to decide the requirement for a fully functional system. All other interfaces and accessories required to complete the system functions shall be supplied by the Bidder. Bidder shall ensure proper interfacing between various sub-systems / equipments of the Electronic Surveillance Security System.

5.1 Technical Specifications for Electronic Surveillance Security System

(i) **Standard Compliance** The software shall be capable of integrating cameras and NVR from any third party system without any major modification.

(ii) **General** :

- a. The Electronics Surveillance Security System shall be an integrated system with IP network centric functional and management architecture aimed at providing high-speed manual as well as automatic operation for best performance.
- b. The system should facilitate viewing of live and recorded images and controlling of all cameras by the authorized users.
- c. The system shall use video signals from various types of indoor/outdoor CCD color cameras installed at different locations, process them for viewing on Server/client Computers and simultaneously record all the cameras after compression using non-proprietary H.264 or better standard.
- d. Mouse/Joystick-KeyBoard, controllers shall be used for Pan, Tilt, Zoom, and other functions of desired cameras.
- e. Video monitoring, control & Recording Software for the Electronic Surveillance Security System/CCTV surveillance system shall provide full access to operations through user friendly and highly intuitive Graphical User Interface. It should be capable to display and manage the complete Electronic Surveillance Security System.
- f. The software shall be designed for open platform and no proprietary hardware shall be required for installation of the software.
- g. It should manage multiple users to access video in a controlled manner. It should be complete CCTV system software with Pre and post Event Recording, viewing and recording multiple cameras.
- h. The software should support Mega Pixel cameras and should facilitate viewing up to HD/4CIF resolution (H.264 and better up to 25/30 fps) on the monitors of PCs.

- i. Bidder to note that the combined specifications of Visual Monitoring, Control and Recording Software have been indicated below. However, it shall be Bidder's responsibility to offer suitable software for each of the Computer system i.e.; Administrative PC/Security Post Monitoring PC, Network Video Recorder, so as to achieve the following minimum functionalities:
 - (i) Management, monitoring and control of the entire Electronic Surveillance Security System/CCTV system
 - (ii) Recording and playback management of video and data
 - (iii) User Interface for Electronic Surveillance Security System configuration and management
 - (iv) User Interface for Electronic Surveillance Security System
 - (v) Alarm Management
 - (vi) Manage & View Event, Alarm and Audit Log.

(iii) System Requirements for Electronic Surveillance Security System

- a. All the features of the Camera like resolution, frame rate, etc. should be accessible from remote and the operators shall be able to control/configure those features from remote, if authorized.
- b. The software should have inbuilt facility to store configuration of encoders and cameras.
- c. The software should Support flexible 1/4/8/9/16 Windows Split screen display mode using multi monitor and scroll mode on the PC monitor.
- d. The software should be able to control all specified cameras i.e. Iris control, auto / manual focus, and color balance of camera, Selection of presets, Video tour selection etc.
- e. It should have recording modes viz. continuous, manual, or programmed modes on date, time and camera-wise. The modes should be disabled and enabled using scheduled configuration. It should also be possible to search and replay the recorded images on date, time and camera-wise. It should have the facility for scheduled recording. Different recording speeds (fps) and resolution for each recording mode for each camera should be user definable.
- f. The software for clients should also be working on a browser based system for remote users without need for any additional license. This will allow any authorized user to display the video of any desired camera on the monitor with controls.
- g. Retrieval: The Electronic Surveillance Security System application should allow retrieval of data instantaneously or any date / time interval chosen through search functionality of the application software. The retrieval and storage of data

at least up to 30 days should be possible. The system should also allow for backup of specific data on any drives like DVD's, external USB device or any other device in a format which can be replayed through a standard PC based software. Log of any such activity should be maintained by the system.

- h. The installed Electronic Surveillance Security System shall be triplex i.e. it should provide facility of Viewing, Recording & Replay simultaneously.
- i. The Electronic Surveillance Security System must provide built-in facility of watermarking or Digital certificate to ensure tamper proof recording.
- j. All camera recordings shall have Camera ID & location/area of recording as well as date/time stamp. Camera ID, Location/Area of recording & date/time shall be programmable by the system administrator with User ID & Password.
- k. The Electronic Surveillance Security System shall allow a preprogrammed sequence of camera viewing which shall be continuously displayed on a client machine. The Operator can choose any no. of cameras to be shown in the sequence.
- l. User should have flexibility to select different FPS (25/15/12.5/10 or lower FPS) for camera recording/live viewing. It should be possible to select different fps rate for recording and live viewing.
- m. User should have flexibility to select different resolution (HD 1280X720p), D1, 4CIF, CIF, VGA) for camera recording/live viewing. It should be possible to select/program different resolution for recording and live viewing.
- n. In order to optimize the memory, while recording, video shall be compressed using Non-proprietary H.264 or better standard and streamed over the IP network.
- o. The Electronic Surveillance Security System shall provide sufficient storage for recordings of the entire camera for a period of 30 days or more @ 25 FPS, at 4 CIF or better quality using necessary compression techniques for all cameras. It shall be ensured that data once recorded shall not be altered by any means. The recording resolution and frame rate for each camera shall be user programmable.
- p. The offered Electronic Surveillance Security System shall have facility to export the desired portion of clipping (from a specific date/time to another specific date/time) on CD or DVD. Viewing of this recording shall be possible on standard PC using standard software like Windows media player etc.

(iv) Features & Functions :

- a. Plug & Play installation and detection of Cameras and Devices
- b. Flexible, User friendly and easy to use
- c. Digital Zoom in Live or Playback Video
- d. Inbuilt image enhancement feature
- e. Facilitate Users with proper authority to perform administrative functions, such as configuring devices, setting up users, adjusting network settings and creating

recording schedules. Access to these functions and all other system services shall be configurable.

- f. Users shall be able to monitor & control only those devices and features to which they have been granted users right and permissions.
- g. System wide health monitoring, including cameras, computers, software, and network connectivity.
- h. Multiple displays views for Live or Play back Cameras or Devices.
- i. Advanced Search capabilities including Search from Motion, Alarm, and event video.
- j. Customizable Users and Device permissions.
- k. Event/Alarm list with device events (e.g.; video loss), system event, network events, user events (e.g.; logon failure) etc.
- l. Device States shall be shown by icons, including network connection loss, video loss etc.
- m. Per camera, per recording schedule frame rate and quality settings for live, normal recording, motion recording and alarm recording.
- o. Shall provide the ability to change video quality, bandwidth and frame rate parameter on a per camera basis for both live and recorded videos.
- p. Shall provide the capabilities to assign password to each users and set access rights to the various client applications and its functions.
- q. The software shall have remote interface features for configuration, display & control of cameras remotely over the network. These features shall be password protected to provide a powerful security system.
- r. The software shall provide the full functionality reporting tool which can provide reports for user logon/logoff, camera accessibility report, server health check report etc.

(v) **Live Video:**

- a. Single Camera view
- b. Multiple views upto 16 cameras in 1/4/8/9/16 configuration – user selectable
- c. Sequence view of camera preset positions
- d. Modify quality settings of camera
- e. Modify recording settings of cameras
- f. Adding and removing cameras in live view
- g. Creating schedules for recording and video motion detection
- h. The software shall support the video loss alarm feature. The video loss alarm feature shall provide operators with a notification when the video signal from any cameras is lost.
- i. **Camera View :**
 - (i) The software shall display the list of camera in a tree structure or other user friendly graphical user interface, so that the user can select the desired camera
 - (ii) View the live output from the selected cameras
 - (iii) Pan, tilt, zoom and focus the camera using mouse/keyboard or joystick attached to client PC
 - (iv) Manually record live video. Recording will continue for the configured period of time.
 - (v) Manually store the current frame of video [snapshots] as a bitmap image file.

The software shall support the multiple cameras view simultaneously on a single display and shall automatically reduce the quality of the video as per the configured bandwidth.

Sequence View: The software shall support sequence views. A sequence views consists of a single camera view, which can be cycled on a time basis.

- j. **Camera Settings:** Only the authorized users are permitted to modify camera connection details etc.

(vi) **Recording :**

The following method of recording shall be supported:

- a. **User Activated:** The users shall be able to configure
 - (i) Pre-Record Duration: The amount of pre-recorded video that will be associated with a user request for recorded video.
 - (ii) Frame rate: Video quality required for User activated recording.
 - (iii) Record Duration: User activated recording shall terminate after that period.
- b. **Event Activated:** Prioritization of Events, low priority alarm, high priority alarm, and Post Record duration and frame rate shall be configurable for each camera.
- c. **Scheduled:** start time, stop time and frame rate shall be configurable for each cameras.
- d. **Snapshot:** Video to be sorted out as bitmap/jpg. The software system should provide every client with the ability to record the current frame of video.

(vii) **Search :**

The software shall have features for providing a simple and an advanced search for all recorded videos. The Users shall be able to specify the search period i.e.; start time and end time. The search shall be based on recording time, cameras, alarm/events, location, recording details etc.

(viii) **Recording Playback :**

The recorded video shall be available to all users, who have adequate authorization. Each user shall only be able to view recordings from cameras they have security to view. Information and controls like frame rate, resolution of recording, recording start date and time, recording end date and time, play, pause, stop buttons, step forward and step backward buttons, fast forward and rewind buttons to play the recording at speed of x2, x4, x8 or x16 etc.

(ix) **System and User Audit Trail :**

The software must record all user actions on the various client PCs in a log file in system. User action includes:

- a. interventions such as manual recording and configuration setting changes,
- b. Cameras viewed
- c. Video replayed
- d. Video Exported
- e. Camera Pan/Tilt/Zoomed

The system must also contain a history of the status of the system components including when they were disabled or failed.

5.2. CAMERAS:

(i) Salient features :

- a) The cameras shall be pure IP based and fully digital without having any External Encoder circuit/ web-server associated with it.
- b) The cameras must be of Day and Night type. The cameras must be controllable for use in black & white mode when needed. The cameras shall have provision to operate with enhanced sensitivity in the darkest conditions.
- c) The cameras must be operative in automatic mode for switching from day mode to night mode depending on the ambient natural light intensity without having to manually operate.
- d) It should also be possible to view the individual IP based cameras through internet browsers by authorized Users without need of any other software. All the features of the Camera like resolution, FPS etc shall be available for control.
- e) The Electronic Surveillance Security System camera shall be suitable for wall mounting, ceiling mounting and pole mounting All accessories required for the mounting shall be provided.
- f) The camera should be able to detect motion in day & night environments having light intensity of Color: 0.01 Lux/F1.2; B&W: 0.005 Lux/F1.2.
- g) The cameras features must be quickly and easily accessible by provision of on-screen displays
- h) The Electronic Surveillance Security System camera shall have tamper proof feature i.e. it shall inform the Operator of any change in its placement, blocking of the view etc.
- i) The Electronic Surveillance Security System camera shall have BMC (masking of light sources), BLC (compensation for lighting effect/shadow) HLC and DWDR feature.

(ii) Other features :

- a. Remote firmware updates
- b. Secure backup of all camera settings

- c. Password protection prevents unauthorized users from altering system settings
- d. Built-in surge and lightning protection

(iii) **Housing Enclosure :**

The cameras shall have IP-66 Protection Class enclosures. Weather resistant Sunshields shall be provided in the Camera housing in all Cameras required to be installed outdoors. Enclosure shall have provision to avoid fogging during high humidity condition & Camera shall be able to perform. Housing shall be robust.

(iv) **Junction box :**

A Junction box (JB) shall be provided to accommodate all the accessories like media converters, power supply converters, LIU etc required at the camera site.

(v) **All equipments should be heavy duty for 24 hours x 365 days continued operations.**

6.0 Integration with CCTV system and other Security System- Future Integration

Electronic Surveillance Security System solution shall provide a unified device interface to devices, including different kinds of third party devices. The Electronic Surveillance Security System application software should be based on Open Application Programming Interface. The Bidder must provide the Software Development Kit (SDK) and Application Program Interface (API) for all the system software's including NVR/Cameras installed in the Visual Monitoring System under the project, for enabling future integration of third party system. The Bidder must extend its full cooperation in this regard. The Software Development Kit (SDK)/Application programming interface (API) for the NVR and the Cameras shall be supplied including for the integration of following functions with the Electronic Surveillance Security System

- (i) **Camera** – Network device discovery, live video streaming, Video capture configuration, video compression configuration, Event and metadata configuration, Rule management for alerts, Storage recording, PTZ camera control
- (ii) **NVR** - Network device discovery, Video capture configuration, video compression configuration, Event and metadata configuration, Rule management for alerts, video recording control, video recording search, video replay control.

7.0 UTP Cable and cable lying: - Indoor Cat 6 UTP cabling shall be done from the area identified for the PC Server to the wall mount rack for housing the network elements. The armoured UTP cable should be utilized for outside the building while unarmored cabling should be done inside the building. Separate power cabling for cameras shall not be required as PoE switch shall be utilized. The Outside cables should conform to CAT 6 specifications and individual cable pairs should be separated by a PE former. The indoor UTP cabling shall be done using ISI/ BIS marked rigid PVC casing capping and accessories. The route for cabling is to be discussed and finalized with the Site-in-charge. The aesthetic appearance of the cabling within offices and other visible areas is to be taken into consideration while planning the cable route. Cable routes should be planned to avoid fluorescent light fittings and power cables and where they are run parallel to power they must be at least 60mm apart. Crossing power cables is allowed but it must be at right angles, and some form of bridge should be used. The structured cabling system should conform to TIA/EIA standards. All terminating should be carried

out according to the manufacturer's instructions and guidelines, and the standards for generic cabling systems viz. the cable sheath should be stripped back no more than 13mm from the point of termination, the twist rates should be maintained, maximum cable run to be 90 m etc. Care should be taken when pulling cables.

It is here to mention that the length of cables /cable route mentioned in annexure-7 is indicative and same may change during implementation of the project. bidders are advised to carry out site survey for proper assessment of cable length.

8.0 Technical Specifications :

The Hardware and Software requirement of various components of The Electronic Surveillance Security System shall be in Annexure- 1 to 7 of the technical specifications.

9.0 Factory Acceptance test

The factory Acceptance test shall be the tests to examine the functional capabilities of the system in the factory or at bidder's establishment and all the functional test shall be done in the simulated environment. A representative number of components of each type shall be installed for the purpose of testing. The setup shall include at least the following:

- a) Minimum 2 Cameras of each type (Four PTZ and one Fixed) connected to switch through fibre optic cable.
- b) One client and one NVR

The functional tests in factory shall include all the functions asked for in the Technical specification and the test procedure shall be approved by the Employer.

10.0 Site Acceptance test (Field Acceptance Test)

The site Acceptance test shall be done on each of the systems after the equipments have been integrated in the Employer's system by interfacing with the NVR, Cameras, communication equipment and have been preliminary tested by the Contractor for its functioning. The site acceptance test shall be done at SLDC, Jabalpur. The Site acceptance test at SLDC shall include (but not limited to) the following test:

- (i) General conformation of performance for each the equipment.
- (ii) Viewing of Recorded video/snapshot from remote locations.
- (iii) Generation of alarms in Electronic Surveillance Security System as per defined rules and Transmission of alarms to the Administrative Monitoring System & Security Post PC.
- (iv) Configure Presets and provide descriptive name to the cameras, preset position etc.
- (v) Configure Sequence tour/guard Tour and configure schedule for conducting the tour and check the performance
- (vi) Search the recorded video
- (vii) View the User & Audit log reports
- (viii) Configure frame rates/resolution settings etc.

The Site Acceptance test shall repeat some of the configuration tests so that to verify proper configuration/implementation of all the functions. It shall also verify the displays and reports being provided with each of the system.

11.0 Availability Test

The availability test shall be for 10 days test conducted after the successful completion of all the equipments/systems as per the contract. It shall include the Administrative /Security Post PCs, cameras and NVR. The Electronic Surveillance Security System shall demonstrate an availability of 99%.

12.0 Commercial Questionnaire

It is obligatory on the part of bidders to furnish commercial questionnaire enclosed with the bid document duly filled in complete in all respects. It has to be noted that the confirmations given in commercial questionnaire will form the basis for bid evaluation. In case commercial questionnaire duly filled in complete in all respects is not furnished, the bid may be treated as non-responsive.

13.0 Technical Questionnaire

It is obligatory on the part of bidders to furnish technical questionnaire enclosed with the bid document duly filled in complete in all respects. It has to be noted that the confirmations given in technical questionnaire will form the basis for bid evaluation. In case technical questionnaire duly filled in complete in all respects is not furnished, the bid may be treated as non-responsive.

14.0 Guaranteed Technical Particulars

It is obligatory on the part of bidders to furnish Guaranteed technical Particulars enclosed with the bid document duly filled in complete in all respects. In case Guaranteed technical Particulars duly filled in complete in all respects is not furnished, the bid may be treated as non-responsive.

15.0 Please ensure the Bid document containing number of pages has been properly page numbered and signed by the bidder. All Bid documents including schedules and Annexure should be indexed properly and index of the document should be enclosed/ placed at the beginning of the document.

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Annexure-1**IR NETWORK BULLET CAMERA SPECIFICATIONS**

<u>S.No.</u>	<u>Features</u>	<u>Minimum Specifications required</u>
1	Image Sensor	1/3" 3Megapixel Aptina CMOS
2	Min Luminous	0.01Lux/F1.2 (Color), 0.005Lux/F1.2(B/W); 0Lux/F1.2(IR on)
3	Effective Pixels	2048(H)x1536(V)
4	Iris/Focus	Auto/Manual
5	Lens	6mm (3.6mm,8mm)
6	Iris Exposure Control	Auto/Manual, 1/3~1/10000s
7	IR Beam Distance	30m
8	Max Aperture	F1.8 (F1.6/F1.6)
9	Angle of View	H: 72.5°(44°/33.2°)
10	Day/Night	Auto(ICR)/Color/B/W
11	Backlight Compensation	BLC / HLC / DWDR
12	White Balance	Auto/Manual
13	Gain Control	Auto/Manual
14	Video Compression	H.264/ MJPEG
15	Video Resolution	3.0M(2048x1536)/1080P(1920x1080) / 720P(1280x720) / D1(704x576) / CIF(352x288)
16	Frame Rate	
	i) Main Stream	3M(1~20fps)/1080P/720P(1 ~ 25/30fps)
	ii) Sub Stream	D1/CIF(1 ~ 25/30fps)
17	Support Dual-stream	primary/secondary stream, H.264 and better
18	Streaming	Dual streaming
19	Supported Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour
20	ONVIF Security Standard	ONVIF Profile S
21	Protection Standard	IP66 weather-proof, vandal-proof
22	Ethernet	RJ-45 (10/100Base-T)
23	Power Supply	DC12V, PoE (802.3af)
24	Max. User Access	20 users
25	Operating Temperature	-20°C~+60°C
26	Operating Humidity	Less than 95% RH
27	Make	Honeywell, Samsung, Dahua, Axis, Pelco, Bosch

IR NETWORK SMART DOME CAMERA SPECIFICATIONS

<u>S.No.</u>	<u>Features</u>	<u>Minimum Specifications required</u>
1	Image Sensor	1/3" 3Megapixel Aptina CMOS
2	Min Luminous	0.01Lux/F1.2 (Color), 0.005Lux/F1.2(B/W); 0Lux/F1.2(IR on)
3	Effective Pixels	2048(H)x1536(V)
4	Iris/Focus	Auto/Manual
5	Lens	3.6mm (6mm)
6	Iris Exposure Control	Auto/Manual, 1/3~1/10000s
7	IR Beam Distance	20m
8	Max Aperture	F1.8 (F1.6/F1.6)
9	Angle of View	H: 72.5°(44°/33.2°)
10	Day/Night	Auto(ICR)/Color/B/W
11	Backlight Compensation	BLC / HLC / DWDR
12	White Balance	Auto/Manual
13	Gain Control	Auto/Manual
14	Video Compression	H.264/ MJPEG
15	Video Resolution	3.0M(2048x1536)/1080P(1920x1080) / 720P(1280x720) / D1(704x576) / CIF(352x288)
16	Frame Rate	
	i) Main Stream	3M(1~20fps)/1080P/720P(1 ~ 25/30fps)
	ii) Sub Stream	D1/CIF(1 ~ 25/30fps)
17	Support Dual-stream	primary/secondary stream, H.264 and better
18	Streaming	Dual streaming
19	Supported Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour
20	ONVIF Security Standard	ONVIF Profile S
21	Protection Standard	IP66 weather-proof, vandal-proof
22	Ethernet	RJ-45 (10/100Base-T)
23	Max. User Access	20 users
24	Operating Temperature	-20°C~+60°C
25	Operating Humidity	Less than 95% RH
26	Make	Honeywell, Samsung, Dahua,Axis, Pelco,Bosch

Annexure-3

Specifications of Network Video Recorder (NVR)

<u>S.No.</u>	<u>Features</u>	<u>Minimum Specifications required</u>
1	Main Processor	Dual-core embedded processor
2	Operating System	Embedded LINUX
3	IP Camera Input	16 channel
4	Two-way Talk	1 channel Input, 1 channel Output, BNC
5	IP Camera Support	Support multi-brand camera, Support ONVIF
6	Video O/P	1 HDMI, 1 VGA, 1TV
7	Display Resolution	1920x1080, 1280x1024, 1280x720, 1024x768
8	Multi-Screen Display	1/4/8/9/16
9	On Screen Display	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
10	Recording Compression	H.264 / MJPEG
11	Recording Resolution	5MP(2560x1920) / 3MP(2048x1536) / 1080P(1920x1080) / 720P(1280x720) / D1 (704x576/704x480) & etc.
12	Record Rate	Max 128Mbps (eg. 16ch 5MP@8Mbps)
13	Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
14	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
15	Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Buzzer & Screen tips
16	Video Detection	Motion Detection, MD Zones: 396(22x18), Video Loss & Camera Blank
17	Alarm Input	16 channel
18	Relay Output	6 channel
19	Sync Playback	1/4/9/16
20	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
21	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
22	Backup Mode	USB Device / eSATA Device / Internal SATA burner/ Network
23	Ethernet	2 RJ-45 port (10/100/1000Mbps)
24	USB	4 ports (2 Rear), USB2.0
25	RS232	1 port, For PC communication & Keyboard
26	RS485	1 port, For PTZ control
27	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search
28	Max. User Access	20 users
29	Smart Phone	iPhone, iPad, Android, Windows Phone

30	Internal HDD	8 SATA ports (8HDDs or 6HDDs+1CD/DVD-RW), expandable up to 32TB, Raid(redundancy) Minimum 3 TB data storage required (Bidder is required to provide the storage capacity to store 30 Days data, considering 16 cameras connected)
31	External HDD Port	1 eSATA port (Max 4 SATA HDDs), up to 16TB
32	Power Supply	AC 100V~240V, 50/60Hz
33	Protection	IP66 weather-proof, vandal-proof
34	Operating Temperature	-10°C~+55°C
35	Operating Humidity	10%~90%RH
36	Make	Honeywell, Samsung, Dahua,Axis, Pelco,Bosch

Annexure-4

Administrative & Security Post Monitoring System

The Administrative & Security Post Monitoring System shall have the following hardware requirement as mentioned in the subsequent hardware detail section. The Computer system shall also include a keyboard & optical scroll mouse .

S.No.	Features	Minimum Specifications required
1	CPU	4 th Generation Inter@Core™ i3-4130, 3M Cache, 3.4 Ghz
2	Operating System	Window 8.1(64 Bit) English
3	HDD Interface	SATA or Better
4	HDD	500 GB 7200 rpm SATA 6Gb/s Drive
5	SD RAM	4 GB Single Channel DDR3 1600 Mhz- 1DIMM
6	Mouse	PS/2 or USB Optical Scroll Mouse
7	Key Board	PS/2 or USB Keyboard
8	Ethernet Port	10/100/1000 RJ45 Ethernet port; Ethernet card Dual Onboard Intel Gigabit Ethernet.
9	Other interfaces	serial port -1 No.
		USB 2.0 ports- 6 Nos.
		parallel port - 1 No
10	Other Software	Licensed Anti-virus with 1 year validity
11	Other Hardware	Multi Media card, Speakers
11	Monitor	19" TFT LED Monitor
12	Make	HP, DELL, COMPAQ, IBM

Power on Eathernet(PoE) Switch

<u>.No.</u>	<u>Features</u>	<u>Minimum Specifications required</u>
1	Interface	16 10/100Base-TX Ethernet ports
2	Port Functions	IEEE 802.3af Power over Ethernet(PoE) <ul style="list-style-type: none"> ■ IEEE 802.3 10 Base-T Ethernet(Twisted pair copper) ■ IEEE 802.3u 100Base-T Fast Ethernet (Twisted pair copper) ■ ANSI/IEEE 802.3 NWay auto-negotiation ■ IEEE 802.3x Flow control ■ Port mirroring
3	Number of ports	16 10Base-T/100Base-T
4	Protocol	CDMA/CD
5	RAM Buffer	512K
6	MAC Address Table	4K entries per device
7	Transmission Method	Store-and-forward
8	Packer forwarding Rates(Half Duplex)	Max. 1,488,000pps per port
9	Operating Temperature	0-40°C
10	Operating Humidity	10%-90% RH
11	Safety	<ul style="list-style-type: none"> ■ UL ■ CUL ■ TUV
12	Emission(EMI)	<ul style="list-style-type: none"> ■ FCC Class A ■ CE Class A ■ VCCI Class A
13	Make	D-Link, Cisco, Nortel

Annexure-6

Door Frame Metal Detector(DFMD) &Hand Held Metal Detector(HHMD)

S.No.	Features	Minimum Specifications required
1	Installation	Indoor
2	Format	All round search coil with Base Bridge
3	Power	1Ø, 230V AC
4	Arch Size	220 X 80 cm.
5	Detection level	Detect big metal articles such as knife, gun, copper, aluminium etc.
6	Sensitivity	Adjustable from level 0-99
7	Alarm	Audio & Light Alarm on all metal (Ignoring personal belongings)
8	Operating Temperature	10-50°C
9	Operating Humidity	95% RH
10	Make	Mark, Secuscan or equivalent

Ultra sensitive hand held metal detector (HHMD) with rechargeable battery, built in charger, ON/OFF press switch & following features :

- Power 'ON' indicator
- Audio/Visual alarm
- Ultra high sensitivity
- Light in Weight
- Detect all Ferrous /Non Ferrous Metals
- Auto set feature
- Low power consumption

Make- Mark, Secuscan or equivalent

Annexure-7

S. No	Location of Camera	Type of Camera	Cable Route & Req. Length of Cable				Length in Mtrs.	Remark
			From	To	To	To		
1	Security Post	IP Box Camera	SCADA Room	Porch Pillar	Security Post		50 Mtrs.	
2	N-E Corner of Building	IP Box Camera	SCADA Room	Porch Pillar (1st)	Porch Pillar(2nd)	N-E corner of Building	80 Mtrs.	
3	Center of South side of Building	IP Box Camera	SCADA Room	Upper side of Pillar			75 Mtrs.	
4	Wall Opposite to Main Entrance	IP Dome Camera	SCADA Room	SE(Opn) room	Staircase pillar	Center of wall	45 Mtrs.	
5	SCADA Room	IP Dome Camera	SCADA Room	Center wall			05 Mtrs.	
6	Control Room	IP Dome Camera	SCADA Room	SE(Opn) room	Control room gate	Left hand side wall of gate	65 Mtrs.	75 Mtrs.if installed at ABT side gate
7	Control Room Floor on East Side Stair Case	IP Dome Camera	SCADA Room	SE(Opn) room	Control room gate	Stair case	85 Mtrs.	
8	Monitor at Security Post		SCADA Room	Porch Pillar	~	Security gate	50 Mtrs.	
9			SCADA Room	SE(Opn) room	SE(Opn) Toilet gate		50 Mtrs.	
							505 Mtrs.	515 Mtrs.

SCHEDULE-I

SCHEDULE OF PRICES & QUANTITY FOR ELECTRONIC SURVEILLANCE SECURITY SYSTEM & SPARES

Bidders may please note that the prices are to be offered exactly as per the format given below. Description of Electronic Surveillance Security System and quantity indicated here under should exactly be used for the purpose of offering the prices.

S. No	Particulars of Item	Tendered Qty	Break Up Of Offered Unit F.O.R. Destination Cost					Total FOR Destination price Including Taxes & Duties (in ₹)	Remark (Any other Tax / Rebate Etc.)
			Unit Ex-Works Including Packing (in ₹)	Rate of Excise Dut (In %) & Amount (in ₹)	Rate of CST/ VAT (In %) & Amount (in ₹)	Unit Freight (Including Unloading at Site + Insurance Charges If any) (in ₹)	Unit FORD Cost Including Taxes & Duties (in ₹)		
1	2	3	4	5	6	7	8	9=3x8	10
1	IR Network Bullet Camera having General Technical Specifications : 1/3" 3Mp IR Camera, Built 30M IR LEDs, Frame Rate 20fps@ 3M (2048 X 1536), 25/30fps@1080P, video compression H.264/MJPEG, Lens 3.6 mm (provision for 6mm,8mm),Minimum illumination 0.01 Lux/F1.2(color), compliance to IP66 standard,supported interface ONVIF, Max. 20 Users, Ethernet Connectivity (RJ-45 10/100 Base-T)	3 Nos.							
2	IR Network Smart Dome Camera having General Technical Specifications : 1/3" 3Mp IR Camera, Built 20M IR LEDs, Frame Rate 20fps@ 3M (2048 X 1536), 25/30fps@1080P, video compression H.264/MJPEG, Lens 3.6 mm (provision for 6mm,8mm),Minimum illumination 0.01 Lux/F1.2(color), compliance to IP66 standard,supported interface ONVIF, Max. 20 Users,Ethernet Connectivity (RJ-45 10/100 Base-T)	4 Nos.							

3	16 Channel Network Video Recording System having standard features such as compression H.264/MJPEG , OS-Embedded LINUX, Video O/P- 1 HDMI, 1VGA, 1TV, Multi Screen Display/ Play back Channel - 1/4/8/9/16, On Screen Display - Camera title, Time, Video loss, Camera lock, Motion detection, Recording, Recording Resolution- 3MP(2048X1536), Recording Mode- Manual , Schedule, Motion Detection, Stop, Alarm -16 channels, Relay o/p-6 channels, Storage Capacity- 8SATA upto 32TB HDD , Multi-User access , Mobile Monitoring supported(Smart Phone and Android) Network Connectivity Ethernet RJ45 , RS-232 & Rs-485, USB etc. Play-back smooth, Support multi brand network cameras , System compatibility-ONVIF conformance	1No.							
4	Monitoring & Display Units: i) Administrative Control & Monitoring unit at Computer Room: comprising of Monitor, PC, Hard Disks, Keyboard, Mouse etc. ii) Monitoring unit at Security check Post : comprising of Monitor, PC, Hard Disks, Keyboard, Mouse etc.	01No. 01No.							
5	Accessories For System integration : i) 16 Port PoE Switch ii) Cat-6 Armored UTP Cable iii) Cat-6 Unarmored UTP Cable	01No. As req.* As req.*							
6	Spares : i. IR Network Bullet Camera ii. Fixed Smart IR Dome Network Camera	01No. 01No.							
7	METAL DETECTORS : i) DOOR FRAME METAL DETECTORS WALK-THROUGH METAL DETECTOR, having 16 detection levels to indicate the Volume of metal passing and audio alarm on all Metals (Ferrous and non-ferrous Both), Operating temperature-10 C TO + 50°C UPTO	01No.							

	95%RH								
	ii) HAND HELD METAL DETECTOR (with charger and NiCD Battery)- Ultra sensitive hand held metal detector (HHMD) with rechargeable battery& built in charger, audio/visual alarm, detect all Ferrous /Non Ferrous Metals.	01No.							
8	INSTALLATIONAND COMMISSIONING OF THE SYSTEM								

* Approximate quantity mentioned in Annexure-7

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (A)

GUARANTEED TECHNICAL PARTICULARS OF IR NETWORK BULLET CAMERAS

This schedule of guaranteed technical particulars for IR Network bullet Camera is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Type of IR NETWORK BULLET CAMERA offered	
5	Image Sensor	
6	Min Luminous	
7	Effective Pixels	
8	Iris/Focus	
9	Lens	
10	Iris Exposure Control	
11	IR Beam Distance	
12	Max Aperture	
13	Angle of View	
14	Day/Night	
15	Backlight Compensation	
16	White Balance	
17	Gain Control	
18	Video Compression	
19	Video Resolution	
20	Frame Rate	
	i) Main Stream	
	ii) Sub Stream	
21	Support Dual-stream	
22	Streaming	
23	Supported Protocols	
24	ONVIF	
25	Ethernet	
26	Power Supply	
27	Max. User Access	

S No.	Particulars	Specification/Rating
28	Protection	
29	Operating Temperature	
30	Operating Humidity	
31	Approved Make	
32	Support Dual-stream	
33	Streaming	
34	Supported Protocols	
35	ONVIF	
36	Ethernet	
37	Power Supply	
38	Max. User Access	
39	Protection	
40	Operating Temperature	
41	Operating Humidity	

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (B)

GUARANTEED TECHNICAL PARTICULARS OF IR NETWORK DOME CAMERAS

This schedule of guaranteed technical particulars for IR Network Dome Camera is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Type of IR NETWORK BULLET CAMERA offered	
5	Image Sensor	
6	Min Luminous	
7	Effective Pixels	
8	Iris/Focus	
9	Lens	
10	Iris Exposure Control	
11	IR Beam Distance	
12	Max Aperture	
13	Angle of View	
14	Day/Night	
15	Backlight Compensation	
16	White Balance	
17	Gain Control	
18	Video Compression	
19	Video Resolution	
20	Frame Rate	
	i) Main Stream	
	ii) Sub Stream	
21	Support Dual-stream	
22	Streaming	
23	Supported Protocols	
24	ONVIF	
25	Ethernet	
26	Power Supply	
27	Max. User Access	

S No.	Particulars	Specification/Rating
28	Protection	
29	Operating Temperature	
30	Operating Humidity	
31	Approved Make	
32	Support Dual-stream	
33	Streaming	
34	Supported Protocols	
35	ONVIF	
36	Ethernet	
37	Power Supply	
38	Max. User Access	
39	Protection	
40	Operating Temperature	
41	Operating Humidity	

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (C)

GUARANTEED TECHNICAL PARTICULARS OF NETWORK VIDEO RECORDER

This schedule of guaranteed technical particulars for Network Video Recorder is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Main Processor	
5	Operating System	
6	IP Camera Input	
7	Two-way Talk	
8	IP Camera Support	
9	Video O/P	
10	Display Resolution	
11	Multi-Screen Display	
12	On Screen Display	
13	Recording Compression	
14	Recording Resolution	
15	Record Rate	
16	Record Mode	
17	Record Interval	
18	Trigger Events	
19	Video Detection	
20	Alarm Input	
21	Relay Output	
22	Sync Playback	
23	Search Mode	
24	Playback Function	
25	Backup Mode	
26	Ethernet Port	
27	USB Port	
28	RS232 Port	
29	RS485 Port	

S No.	Particulars	Specification/Rating
30	Network Function	
31	Max. User Access	
32	Smart Phone	
33	Internal HDD	
34	External HDD	
35	Power Supply	
36	Protection	
38	Operating Temperature	
39	Operating Humidity	

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (D)

GUARANTEED TECHNICAL PARTICULARS OF ADMINISTRATIVE & SECURITY POST MONITORING SYSTEM

This schedule of guaranteed technical particulars for Administrative & Security Post Monitoring System is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	CPU	
5	Operating System	
6	HDD Interface SATA or Better	
7	HDD	
8	SD RAM	
9	Mouse	
10	Key Board	
11	Ethernet Port	
12	Other interfaces	
13	Other Software	
14	Other Hardware	
15	Monitor	
16	CPU	
17	Operating System	
18	HDD Interface SATA or Better	
19	HDD	
20	SD RAM	
21	Mouse	
22		
23		

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (E)

GUARANTEED TECHNICAL PARTICULARS OF PoE SWITCH

This schedule of guaranteed technical particulars for PoE Switch is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Interface	
5	Port Functions	
6	Number of ports	
7	Protocol	
8	RAM Buffer	
9	MAC Address Table	
10	Transmission Method	
11	Packer forwarding Rates(Half Duplex)	
12	Operating Temperature	
13	Operating Humidity	
14	Safety	
15	Emission(EMI)	

(Signature of the Bidder)

Name

Designation

Seal of the company

SCHEDULE-II (F)

GUARANTEED TECHNICAL PARTICULARS OF DOOR FRAME METAL DETECTOR

This schedule of guaranteed technical particulars for Door Frame Metal Detector is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Installation	
5	Format	
6	Power	
7	Arch Size	
8	Detection level	
9	Sensitivity	
10	Alarm	
11	Operating Temperature	
12	Operating Humidity	

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE-II (F)

GUARANTEED TECHNICAL PARTICULARS OF HAND HELD METAL DETECTOR

This schedule of guaranteed technical particulars for Hand Held Metal Detector is to be submitted by the Bidder. It may be carefully noted that filling/ reply of each and every clause described below is a must.

S No.	Particulars	Specification/Rating
1	Name of Tenderer and Country of origin	
2	Manufacturer's type & Designation	
3	Applicable technical standards	
4	Power 'ON' indicator	
5	Audio/Visual alarm	
6	Sensitivity	
7	Weight	
8	Detection level	
9	Sensitivity	
10	Operating Temperature	
11	Operating Humidity	

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE -III

TECHNICAL QUESTIONNAIRE

ALL POINTS MENTIONED BELOW SHOULD BE REPLIED IN THESE SHEETS ONLY WITHOUT MAKING ANY REFERENCE TO ANY CLAUSE IN THE BID. IF REPLIES ARE INCOMPLETE OR REPLY TO ANY CLAUSE IS NOT FURNISHED, BID MAY BE TREATED AS INCOMPLETE AND NON RESPONSIVE FROM TECHNICAL ANGLE.

Network Video Recorder

Description	Vendor's Compliance (Yes/No)	Remarks if any
The IP Video Solution shall have centralized management architecture		
The IP Platform shall support minimum 128 channels @ D1 resolution in full frame recording simultaneously		
The IP Platform shall support Minimum 16 channels live video and playback at the same time in D1 resolution with full frame on each client		
The IP Platform Shall have the capability to record and playback various compression devices including MJPEG, H.264 video streams along with audio		
The IP Platform shall support Internal storage for 32TB, external storage up to 16 TB, and evidence archiving at local storage		
The IP Platform shall have Mega pixel camera Support		
The IP Platform shall support replay controls: play & pause & shuttle		
The IP Platform shall be able to configure tours and patrols on workstation monitors or video walls		
The IP Platform shall support Uniform interface to configure and manage video		
The IP Platform shall support Events classified by types and secure levels for easy searching		
The IP Platform shall support Different secure level event notifications can be easily identified with different colors		
The IP Platform shall support Support BMP, JPEG and AutoCAD format map import		
The IP Platform shall support Management of user privileges one at a time or through common profiles		
The IP Platform shall Maintain database of all system functions for report out by request including devices error, alarms, and user actions		
The IP Platform shall support Preprogramming for quick response to various emergency		
The IP platform shall have Powerful management system to link video for actions when emergency happens		
The IP platform shall support full control of CCTV Keyboard		
The IP system server shall have Embedded LINUX		

Operating System		
It shall have Dual-Core embedded processor		
It shall have 3 TB internal SATA HDD		
Power Supply 220 ±15% VAC, 50 Hz		
Operating Temperature -10°C ~ 55°C		
Relative Humidity 10% ~ 95% Non-condensing		
The Client workstation Must be 4 th Generation Inter@Core™ i3-4130 , 3.4 Ghz CPU or above, independent display card with 1G memory or above, 4GB RAM ”		
Makes	Honeywell, Samsung, Dahua,Axis, Pelco, Bosch	

Electronic Surveillance Security System Management Software

Description	Vendor's Compliance (Yes/No)	Remarks if any
It should have following features:		
Device Discovery		
Electronic Surveillance Security System shall provide a function which could search ONVIF compatible devices automatically in network, supports to configure and add them in batch		
Rule Engine		
It shall implements a cutting edge rule engine based on Microsoft Workflow Foundation which provide below features:		
Email notification. Could support “if some alarm is triggered, send email to specified users” kind of scenario		
Raw network command to 3rd party device. Could support “Send raw ASCII text command to 3rd party devices via TCP/IP protocol” kind of scenario.		
Less configuration difficulty level for complex task. It shall support to view historical video record for past 30 seconds directly from live view window. And supports up to 16 channels enable this feature at same time.		
Alternative View		
It shall support to bind two cameras together to be backup view for each other. For example, if one camera is backed out, user could switch to its backup camera in one click. Also provides automatic switch when following alarms are triggered: Video loss		
Surrounding View		
It shall supports that one key camera can be associated with less than 12 related surround cameras. On Surround video live view mode, if the key camera be displayed, the surround cameras shall be automatically displayed in surround viewers to let the operator realize the field from multi-cameras.		
Digital Zoom In/Out		
It shall support digital zoom in/out functions to both live view and historical video record view.		
Multi-Monitor Layout		
It shall supports to display following function panels to		

multiple monitors		
Alarm list panel		
Task list panel		
Device status panel		
Device event panel		
System information panel		
Historical video search and playback panel		
E-Map viewer		
E-Map editor		
New rule client		
Data management panel		
Restricted historical video record search		
User could only search out the historical video record for the devices which are contained in his/her role's device view.		
8x, 16x, 32x, 64x Playback		
It shall quickly play or backward play historical video as 8x, 16x, 32x, and 64x speed.		
Frame by Frame Playback		
It shall play historical video frame by frame		
Backward Playback		
It shall backward play historical video		
Export Video with Player		
Electronic Surveillance Security System data center web portal shall provide a download link for video player. User could be able to play exported video via this player independently		
Health Status Monitor		
It shall raise alarm to client when following system failures are detected:		
CPU overload		
Network overload		
Storage getting full		
Hard disk error		
Data accumulation to an unstable level		
Temperature too high		
Power supply failure		
Fan Failure		
User could subscribe those alarms as same as device alarms		
Trigger Status		
NVR shall raise alarms related to trigger service for following status:		
Scheduled or alarm triggered video has been recorded successfully		
Scheduled or alarm triggered video has been recorded failed		
NVR reaches maximum connection limitation		
Makes		

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE- IV LIST OF PAST SUPPLIES

Bidder shall submit consolidated details of past supply during last five years and current financial year in the table given below;

S. No	Year	supply of Electronic Surveillance Security System
1	2010-11	
2	2011-12	
3	2012-13	
4	2013-14	
5	2014-15 (Current Financial Year)	

Note:

- i. For the above purpose, "year" means financial year from April to March.
- ii. May please note information desired in this format is mandatory requirement.
- iii. Bidder shall enclose details of past supplies indicating order no. & date, name of utility for verification of quantity of Electronic Surveillance Security System mentioned in this schedule. The Bidder should enclose performance certificate from utility

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE -V

SCHEDULE OF TECHNICAL AND COMMERCIAL DEVIATIONS

We have carefully gone through the Technical and Commercial specification. We have satisfied ourselves and hereby confirm that our bid conforms strictly to the requirements of technical and commercial specification except for the deviations, which are given below:

S. No.	Descriptions & clause no. of the specification and page number	Stipulation in specification	Deviation offered	Remarks regarding justification of the deviation.
[A] Technical Deviation				
[B] Commercial Deviation				

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE- VI

COMMERCIAL QUESTIONNAIRE

NOTE: THE BIDDERS MAY PLEASE NOTE THAT SUBMISSION OF THIS QUESTIONNAIRE DULY AND PROPERLY FILLED IN IS ESSENTIAL. WHILE MAKING ENTRIES AGAINST THE QUESTIONS GIVEN BELOW NO REFERENCE SHOULD BE MADE TO COMMENTS ENTERED ELSEWHERE IN THE TENDER. ALL QUERIES SHOULD BE ANSWERED AND THESE ANSWERS SHOULD BE COMPLETE IN THEMSELVES. PLEASE NOTE THAT NONE OF THE COLUMN SHOULD BE LEFT BLANK AND CLEAR REPLY AGAINST ALL COLUMNS SHOULD BE FURNISHED.

1	Name of Bidder/ Manufacturers	
2	Place of Manufacture and address	
3	Date and year of establishment of factory for manufacture of the CCTV Surveillance Security System.	
4	Full details of order No. and date, name of purchaser and quantity of Electronic Surveillance Security System, supplied during past five years be enclosed with the Offer. Please confirm.	
5	Please confirm you have submitted EMD as per tender Requirements. Please also indicate amount of EMD with BG No and date.	
6	Whether you are registered as SSI/NSIC or Central/State Govt. undertaking. Please furnish full details.	
7	Please confirm your acceptance for extension order for supply of 50% additional quantity of Electronic Surveillance Security System & Set of Spares over and above quantity included in this Offer as per Clause 35.0 of Section-I.	
8	Please confirm that you have submitted your Offer in three parts as per Clause 5.0 of Section-I.	
9	Please confirm that payment terms as per Clause 18.0 of Section-I is acceptable to you.	
10	Please confirm your acceptance to penalty as per Clause 20.0 of Section-I.	
11	i) Please confirm specifically the delivery schedule as per Clause 19.0 of Section-I. The delivery schedule should be indicated as per the table in no. of weeks only. Please also indicate period in weeks/days as follows :-	
	a. Maximum period within which acceptance to LOI would be given by Tenderer	Weeks
	b. Maximum period within which final drawings complete in all respects shall be submitted by the Tenderer from date of issue of order	Days
	c. Maximum period within which replies/ clarifications/ calculations shall be furnished by the Bidder, after receipt of comments from MPPTCL on the set of drawings.	Weeks
	d. Considering suitable period for drawing approval, Electronic Surveillance Security System should be Offered for final inspection.	Weeks

	e. Fixed commencement period in Weeks/ months from date of approval of drawings or from date of order in case drawing approval is not involved.	
	ii) Please confirm that the delivery of equipments covered under this tender may be regulated as per the progress of work and availability of funds	
12	Please confirm that performance guarantee period for Electronic Surveillance Security System shall be 24 months from date of despatch or 18 months from date of commissioning whichever is earlier as stipulated under Clause 25.0 of Section-I.	
13	a. Please confirm that you are agreeable to Clause 5.4.2 of Section- I and unloading at site is included in the Offered Freight Charges.	
	b. Whether the firm is prepared to make good any loss or damage in transit immediately and free of all charges.	
14	Please confirm you have noted safe delivery of Electronic Surveillance Security System at site by road transport only as per Clause 34.0 of Section-I and agree for the same.	
15(a)	For participation against this tender, the Electronic Surveillance Security System manufactured by you should be in successful operation for minimum 2 years from date of commissioning as per Clause 16.1 of Section-I. Please confirm you have furnished performance report from user.	
16	a. Please confirm that the prices for Electronic Surveillance Security System has been Offered separately as per Schedule-I.	
	b. Please indicate the rebate if offered by you mentioning clearly the percentage of rebate offered and whether the rebate is towards payment terms or quantity ordered or special unconditional rebate. Please mention the prices specifically on which these rebates are applicable. It may be noted that conditional rebates mayor may not be accepted or considered for evaluation depending upon acceptability of Quoted condition to the Company.	
17	Please refer Clause 16.1 of Section-I and confirm that you have minimum experience of 2 years of design, manufacture and supply of Offered Electronic Surveillance Security System and necessary proof to this effect has been enclosed	
18	i. Please confirm that you will claim only VAT or concessional rate of sates tax and indicate applicable rates for taxes and duties as per Clause 5.4.1 as under - a. Excise duty b. VAT/ Sales tax (Strike out which is not applicable) c. Entry <i>Taxi</i> Other taxes, if any	
	ii. In case no excise duty is chargeable Please confirm whether you are exempted from payment of excise duty at present and whether it will be charged from Company in case it becomes payable on account of turn over at a later date after placement of order. If so, at what rate?	
	iii. In case you are presently exempted from ED and you do not intend to charge the same to Company, even if it becomes payable at a later date (upto the date of completion of supplies/ services), the same should be clearly stated.	
19	Please confirm that performance security shall be furnished as per Clause 21.0 of Section-I	

20	Please confirm that penalty as per Clause 20.0, @ 0.5% of price of undelivered breaker or its accessories per week upto a maximum of 10% is acceptable to you.	
21	Please confirm that in the event of award of a contract you will guarantee to make available spares required for satisfactory operation of the equipment at reasonable cost over a minimum period of 10 years from the date of commissioning as per Schedule- XII	
22	Please confirm validity of your Offer is 4 Months from the date of opening of price bid, otherwise your Offer will be rejected.	
23	Please confirm that Offer in three copies have been submitted.	
24	Please confirm that you have furnished schedule of commercial deviation as per Schedule-VI.	
25	Please confirm that training facility as per Clause No. 40.0 of Section-I shall be provided by you.	
26	Please confirm that you have furnished all required documents and information in the tender as desired in Section I.	
27	Please confirm that you have furnished Appendix-A duly filled in.	
28	Have you furnished Routine and Type Test Report with your offer?	
29	Please confirm that you have enclosed check list required for the Offer.	
30	Please indicate particulars of pages of your tender for verification of following as per Clause 16.3 of Section-I.	
	a. Tabular Statement indicating details of orders placed by utilities and Electronic Surveillance Security System supplied by the firm.	
	b. Documentary evidence for the Electronic Surveillance Security System commissioned along with copies of performance certificates issued by the utilities.	
31	Please confirm that you have enclosed VAT Clearance Certificate	
32	Please confirm that delivery period indicated under Clause-19.0 of Section-I is acceptable to you.	
33	Please also indicate maximum quantity of Electronic Surveillance Security System per month to be manufactured & delivered by you.	
34	Please confirm that you have enclosed audited financial statements of accounts for the last three (3) years.	
35	Please confirm that you have noted the stipulation regarding discrepancies in technical bid and that the details as furnished in Schedule-III of technical questionnaire shall form the basis for evaluation of tender.	
36	Please confirm that necessary documents to establish supply capacity criteria as per clause 16.3 of section-I has been furnished with the offer.	
37	Please confirm that performance certificates have been furnished as per clause No. 16.2 (a) of section-I.	
38	Please confirm that you have furnished supply details duly certified by Chartered Accountant as per clause No. 16.4	
39	Please confirm that you are agreeable for guarantee period of equipment as per clause No. 24.2 (e) of section-I	
40	Please confirm that you have furnished power of attorney as per clause No. 47 of section-I	
41	Please confirm that you are agreeable for submission of security	

	deposit within 30 days time as per clause no.21 of Section-I.	
42	Please also confirm that you are agreeable regarding encashment of bank guarantee submitted towards earnest money deposit in case if security deposit is not furnished within stipulated time as per clause no. 21.4.	
43	Please confirm that you are agreeable for providing free services for erection and commissioning of the Electronic Surveillance Security System as per clause No. 24 of section-II.	

SIGNATURE:
NAME OF BIDDER:
DATE:
STATUS:
NAME OF FIRM:

SCHEDULE- VII

DETAILS OF DRAWINGS SUBMITTED WITH THE TENDER

Bidder shall mention details of drawings which have been submitted along with the Tender in the following table.

S. No.	Drawing No.	Particulars of Drawing

(Signature of the Bidder)

Name

Designation

Seal of the company

SCHEDULE- VIII

LIST OF TYPE TEST REPORTS FOR ELECTRONIC SURVEILLANCE SECURITY SYSTEM

This List shall be enclosed for Electronic Surveillance Security System offered by the Bidder

Reference No & date of test report with no. of sheets of report	Description of equipment rating and Serial No.	Description of type test including IS/other Standards clause	Date of Test	Name of testing Laboratory	Test Result	Remark if any

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE- IX

QUALITY ASSURANCE PROGRAMME AND PROGRAMME CHART

Bidder shall submit here complete details of Quality Assurance programme / programme chart as required in the tender specification.

(Signature of the Bidder)

Name

Designation

Seal of the company

SCHEDULE- X

**DETAILS OF FITTINGS & ACCESSORIES TO BE PROVIDED
WITH ELECTRONIC SURVEILLANCE SECURITY SYSTEM**

S. No.	Particulars	Qty.	Rating	Make

(Signature of the Bidder)
Name
Designation
Seal of the company

SCHEDULE- XI

UNDERTAKING FOR SPARES

It is confirmed that spares for Electronic Surveillance Security System needed for satisfactory operation of Surveillance Security System for 10 years period shall be made available to the purchaser on reasonable prices

(Signature of the Bidder)

Name

Designation

Seal of the company

SCHEDULE- XII

DECLARATION REGARDING LITIGATION HISTORY

It is confirmed that all litigation, arbitration and other claims pending, threatened or resolved in the last five years, with the exception of immaterial claims with cumulative possible impact of not more than 10% of the total assets.

(Signature of the Bidder)

Name

Designation

Seal of the company

SCHEDULE- XIII

CHECK LIST

Bidders shall specifically declare that they have enclosed various schedules, drawings, calculations and other details as per Tender.

Reference	Particulars	Declaration (strike out whichever is not applicable)
TECHNICAL BID		
Schedule-I	Schedule of prices & quantities	Yes/No
Schedule-II	Guaranteed Technical Particulars	Yes/No
Schedule -III	Technical Questionnaire	Yes/No
Schedule -IV	List of Past Supplies	Yes/No
Schedule -V	Schedule of Technical & Commercial Deviations	Yes/No
Schedule -VI	Commercial Questionnaire	Yes/No
Schedule -VII	Details of Drawings Submitted With Tender	Yes/No
Schedule -VIII	List of Type Test Reports	Yes/No
Schedule -IX	Quality Assurance Programme and Programme Chart	Yes/No
Schedule -X	Details of Fitting and Accessories	Yes/No
Schedule -XI	Undertaking for spares	Yes/No
Schedule -XII	Declaration Regarding Litigation History	Yes/No
Schedule -XIII	Check List	Yes/No

(Signature of the Tenderer)

Name

Designation

Seal of the company