



TENDER DESCRIPTION AND TENDER REF. No.

SUPPLY & WARRANTY MAINTENANCE OF
"EXPLOSION PROOF CCTV SYSTEM (ECCTV)"
TERMS & CONDITIONS OF PUBLIC TENDER No. ECIL/ISG//PUR/PT/14-15/01 Dtd 27.10.2014

TENDER SCHEDULE

Approximate estimated value (Rs. lakhs)	166.00
Tender Document Fees (Rs.)	5000.00
EMD (Rs. lakhs)	3.50 (Rupees Three lakhs and fifty thousand only)
Last Date for seeking clarifications through email	Not later than 15.00 hrs. on 3.11.2014
Date of hosting of clarifications and corrigendum to www.ecil.co.in, if any	10.11.2014
Due date for submission of bids up to 15.00 hrs on	22.11.2014
Venue for opening of Bid	Conference hall (NID Building), ISG, ECIL, Hyderabad
Date of opening of techno commercial bids at 15.30 hrs on	22.11.2014 (due date)
Time of opening of price bids on the date to be notified to qualified bidders with email notice of 2 days	At 14.00 hrs.



S. No.	Term	Condition	Compliance required	Bidder's response (Yes/No) Deviations/notes/Remarks if any
1	General Information	1.1. Bidder should submit the Bids in Two-Parts. Part 1. Techno commercial Bid and Part 2. Price Bid.	Noted	
		1.2. Part1 (Techno commercial bid): (i) Tender Document Fees (ii) EMD (iii) Techno Commercial Bid and Part 2 (Price bid): (iv) Price Bid. Bids are to be submitted simultaneously each in <u>four</u> separate sealed covers and super scribed respectively as "Tender Document Fees", "EMD", "TECHNO-COMMERCIAL BID", and "PRICE BID" on respective covers with Tender No., Date & Due Date and Name of the Bidder.	Complied	
		1.3. All the four sealed covers are to be kept in a separate cover and sealed again, PROMINENTLY super scribing with Tender No. Date & Due Date and Name of the Bidder with contact particulars.	Complied	
		1.4. Envelope containing non-refundable Tender Document Fees will be opened first. If Tender Document Fees is not furnished as per terms herein, the bid will not be evaluated further and will be returned to the bidder.	Noted	
		1.5. If the bid complies with the term on Tender Document Fees, then only the cover superscribed as "EMD" will be opened next. If the EMD is not furnished as per terms herein, Techno Commercial bid will not be opened and the bid in its entirety will be rejected and returned to the bidder; however Tender Document Fees, will not be refunded.	Noted	
		1.6. Techno Commercial Bids accompanied by Tender Document fees and EMD will only be processed for evaluation and non compliant bids will be returned to the bidders.	Noted	
		1.7. In any case including the event of cancellation of the Tender, Tender Document Fees once furnished is non refundable.	Noted	
		1.8. Price bids of techno commercially qualified bidders only will be opened. The decision of ECIL on qualifying or otherwise of any bid is final and binding on the bidders. Decision of ECIL is final and binding on all the bidders. Price bids of unqualified bidders will be returned along with EMD.	Noted	
		1.9. The following bids will be summarily rejected and returned: (i) received after the specified time and due date, whatever be the circumstances including postal / courier delays (ii) Email/ fax bids (iii) Revised bids, if any, received after the due date (iv) Bids not submitted as two part (Tender Document Fees, EMD and Techno Commercial Bid as one part and Price Bid as second part).	Noted	



ELECTRONICS CORPORATION OF INDIA LIMITED - INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS
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		1.10. Request for extension of due date will not be considered. However, ECIL, at its sole discretion, may extend due date and will be intimated through notification <u>only</u> through website www.ecil.co.in. The decision of ECIL on extension of due date is final.	Noted	
		1.11. Bids will be rejected summarily if price indications are made, either directly or indirectly in Part-1 i.e. Techno-commercial Bid.	Agreed	
		1.12. Techno commercial bids will be opened in the presence of Bidders who participated and interested to be present.	Noted	
		1.13. Price bids will be opened in the presence of qualified and interested bidders. 2 days' advance email notice will be given to all the qualified bidders as to the venue, date and time of opening price bids. No extension of date and time will be entertained.	Noted	
		1.14. During evaluation of techno commercial bids, Bidder should visit ECIL, Hyderabad, for techno-commercial clarifications, for which purpose the bidder will be given advance email notice with the required clarifications. If the bidder upon such request fails to provide the required technical clarifications either in person or through email/fax within 3 days of such notice, such bids will be evaluated based on the available information.	Agreed	
		1.15. Bidder should furnish details of contact person with Mobile/ Land Line Telephone Numbers and email ID on the covering letter of the techno commercial bid.	Complied	
		1.16. Bidder should confirm in the Techno-commercial Bid (i) that every term and condition mentioned in the Tender is understood and accepted unqualifiedly and (ii) prices are quoted against each line entry of the BOQ of the Price Bid. Deviations, if any, found in the bid at any time including execution of order when awarded shall be treated as null and void.	Agreed	
		1.17. Bidders are advised to go through and pursue the Tender document carefully before submitting the bid.	Pursued carefully	
		1.18. ECIL reserves the right to accept the bids in full or in part or cancel the Tender in its entirety, at its sole discretion, without assigning any reasons.	Noted	
		1.19. Any misleading information furnished in the bid will render the bid liable for rejection. The decision of ECIL is final and binding on all the bidders.	Noted	



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		1.20. Among the Bidders who are technically qualified and the bidder whose price is lowest as per evaluation criteria herein among such qualified Bidders shall only be treated as lowest Bidder. The decision of ECIL is final and binding on the Bidders.	Agreed	
		1.21. Bids for part BOQ will be rejected summarily.	Noted	
		1.22. Authorized and legally competent signatory should sign the bid documents.	Complied	
		1.23. 'Bidder should furnish the Tender document in its entirety duly filling the Bidder's response column against each of the terms, signed and with the seal of the Bidder'. Non compliant bids will be treated as non-responsive and will be rejected.	Complied	
		1.24. Bidder should sign and affix the seal on all pages of the Bid.	Complied	
		1.25. If a bidder furnishes a revised bid before the due date, the later bid only will be considered assuming that the previous bid stands withdrawn, whether or not the bidder confirms in the later bid that the previous bid stands withdrawn.	Noted	
		1.26. Non-refundable Tender document fees of Rs.5,000.00 (Rupees Five thousand only) should be furnished through crossed demand draft payable at Hyderabad, favoring 'Electronics Corporation of India Limited, Hyderabad'.	Complied	
		1.27. Due date for receipt of bids is up to 15.00 hrs on the due date specified in the tender schedule.	Noted	
		1.28. Techno Commercial Bids will be opened at 15.30 hrs on the due date specified in the tender schedule.	Noted	
		1.29. Canvassing in any form will render the bid liable for rejection.	Noted	
		1.30. Clarifications on the tender can be obtained by the Bidders before the time and date specified in the tender schedule. Requests for clarifications can be addressed to Shri V Kishore Kumar, Technical Manager, Purchase, Tel No. 040 2718 2655, email id: igmmgt@ecil.co.in (or) Smt KK Sudharsini, Tel No. 040 2718 2623/6766, email Id: ksudharsini@ecil.co.in .	Noted	
		1.31. The total bid document should be complied and organized as per the order specified in Annexure C7.	Noted	
		1.32. Bids should be submitted at the following address: Dy. General Manager (Materials) Instruments & Security Systems Group	Noted	



S. No.	Term	Condition	Compliance required	Bidder's response (Yes/No) Deviations/notes/Remarks if any
		Electronics Corporation of India Limited ECIL (P.O), Hyderabad – 500 062 Tel Nos. 040 2718 2391, 040 2718 2655, 040 2718 6571		
2	Techno Commercial Bid – Part 1	2. Scope:		
		2.1 Scope comprises of supply and warranty maintenance of the Explosion proof CCTV system as per BOQ in Annexure T1.	Noted	
		2.2 The explosion proof cameras shall comply to CCOE/PESO certified. Bidder should furnish document in support of the certification specified.	Complied	
		2.3 All the equipment of BOQ quoted should be of same make.		
		2.4 The bid should cover the total scope in Annexure T1. Bids for part scope will be rejected summarily.	Complied	
		2.5 A bidder can tender one bid only. Multiple bids from the same bidder will be rejected summarily.	Noted	
		2.6 Detailed technical Specifications of ECCTV are as per Annexure T2.	Noted	
		2.7 Bidder should confirm to provide operation, maintenance manuals and service tips for the equipments, along with supply.	Complied	
		2.8 The scope of supply should include accessories / devices and special tools to make the equipment operational. If complied, it will be the responsibility of the bidder to provide, if any accessories / devices are required at any subsequent stage of execution.	Agreed	
		2.9 In case, no accessories or devices or special tools are required, the same shall be indicated so. In the absence of response in the bid to this condition, it will be presumed and evaluated that the Bidder agreed to include such accessories and devices and special tools.	Agreed	
		2.10 The following documents shall be furnished as part of Techno Commercial Bid.	Noted	
		2.10.1 Tender Document Fees as specified.	Complied	
		2.10.2 EMD as specified.	Complied	
		2.10.3 Un priced price bid format, duly signed, and stamped, as per Annexure C1.	Complied	
3	Evaluation criteria	3.1. <u>Stage I evaluation:</u> The following is the preliminary criteria for evaluation of the techno commercial bid for qualifying. Documents supporting the criteria should accompany the bid.	Agreed	
		3.1.2 The Bidder should be a company registered & incorporated under the	Complied	



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		Indian Companies Act, 1956 <u>or</u> a duly registered Partnership company or any registered enterprise with Statutory Authority. Copy of Registration Certificate or Partnership Deed or certificate issued by Statutory Authority should be furnished. In case of bid through Consortium, this should be complied by the Lead Member.		
		3.1.3 Bidder should confirm technical specifications as given in Annexure – T2 duly supported by Technical Literature. Bids with non compliance to mandatory specifications will be rejected summarily.	Complied	
		3.1.4 Copies of Excise, VAT, CST, Service Tax Registration, PAN particulars.	Complied	
		3.1.5 Bidder should furnish Part No/ Model No, Make / Brand and relevant technical literature in support of compliance, referring to corresponding specification of equipment as per Annexure T2.	Complied	
		3.1.6 Bidder should have a valid ISO 9001 Certification. Copy of valid certificate by the accredited agency should be furnished.	Complied	
		3.1.7 Bidder should have solvency for a minimum amount of Rs. 50.00 Lakhs. Certificate from a Scheduled Bank of repute issued after the date of the tender should accompany the techno commercial bid. The certificate should indicate the name, contact no. and email id of the issuing Signatory of the Bank.	Complied	
		3.1.8 Bidder should have average annual financial turnover of Rs.60.00 Lakhs for the last 3 financial years ending March 2014. Audited balance sheets, IT Returns and P&L account for 3 preceding financial years ending March 2014 should be furnished.	Complied	
		3.1.9 (a) During 3 years preceding 31.03.2014, Bidder should have experience of successful supply / execution of CCTV Surveillance Systems for security application. (i) Three similar completed works of not less than Rs.64.00 lakhs each or (ii) two similar completed works of value not less than Rs.85.00 lakhs each or (iii) one similar work not less than Rs.110.00 lakhs. Similar work: Supply, warrantee maintenance & installation of explosion proof CCTV cameras / CCTV System. Copies of purchase orders and completion certificates shall be furnished in support of (a) above.	Complied	
		3.1.10 Bidder should furnish notarized affidavit on non-judicial stamp paper of Rs.100 stating that:	Complied	



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		<p>'We, _____ (Name of the Bidder's firm) are not debarred nor blacklisted nor prosecuted for any breach of contract by the Central Government, State Governments or PSUs. We are not convicted or fined for any breach of contract by any court of law or tribunal or arbitration panel. The information and documents furnished as part of this bid are true and if it is found otherwise, we agree that our bid may be rejected before acceptance or the contract if awarded may be summarily cancelled without prejudice to ECIL's right to initiate civil or criminal proceedings as deemed fit'.</p> <p>(Italicized text should form content of the affidavit).</p>		
		3.1.11 Ink signed manufacturer's authorization certificate from OEMs separately for equipment, when the bidder is not the OEM, should be submitted as per Annexure C3, if applicable, with details for traceability/verification, confirming to provide support for supply, Spares during warranty and maintenance support for post warranty 5-year period. If the Bidder is OEM, self certification should be furnished. Bids without authorization will be rejected summarily if the participant bidder is partner/distributor/agent etc.	Complied	
		3.1.12 Authorization: A Bidder can be either OEM or OEM's authorized partner/distributor/agent. An OEM can participate directly. If OEM is not participating in the tender, OEM can give multiple authorizations to their channel partners/distributors etc. OEM & its partner cannot participate in the tender together and if participated such bids of both the OEM & its partner (s)/distributor (s) etc will be rejected summarily.	Complied.	
4	Price Evaluation Criteria	4.1 <u>Stage II evaluation - Prices:</u> Bidder should quote for all the line entries of the BOQ as per Annexure T1. Scope cannot be split and L1 will be based on the prices of quoted for total scope net of vatable Taxes.	Complied	
5	Validity	5.1 Bids shall be valid for a minimum period of 45 days from the due date of submission of Tender.	Complied	
6	Delivery	6.1 Delivery of the ordered equipment should be completed within 8	Agreed	



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	Schedule	weeks from the date of email transmission of Tender Acceptance in SINGLE LOT. Equipment shall be delivered at ECIL, Hyderabad.		
7	Additional quantities	7.1 Agreed prices shall remain firm and valid, together with all the terms and conditions, for any additional quantities not exceeding 100% of ordered quantities for a period of six months from the date of Purchase Order.	Agreed	
		7.2 ECIL reserves the right to procure additional quantities at these prices and terms and conditions, within the above said period without any restriction on the minimum quantity per item / per order.	Agreed	
8	Inspection	8.1 Final inspection will be carried out at ECIL, Hyderabad. Acceptance or otherwise of the delivered equipment will be communicated with in 2 weeks from the date of delivery.	Agreed	
		8.2 In case of rejection of any equipment, the bidder should undertake to provide free replacement within 2 weeks from the date of email notice, with all associated costs borne by the bidder for delivery of replacement of equipment and collection of rejected equipment. Rejected equipment, if not collected within one week of delivering replacements, will be retained by ECIL solely at the risk of the bidder.	Agreed	
9	Onsite warranty and post warranty spares /service support	9.1 Bidder should provide on-site warranty at Mumbai for a period of 24 months from NBD of acceptance of equipment at ECIL, Hyderabad.	Agreed	
		9.2 Bidder should provide Warranty Certificate as per format in Annexure C6.		
		9.3 In case of breakdown / malfunctioning during warranty period, the Bidder should undertake to repair/replace the faulty equipment within one week from the time of email notice (i.e. one day for response and 6 days for restoration). Bidder should ensure spares for warranty compliance.	Agreed	
		9.4 ECIL will levy penalty @ Rs.5000.00 per day for the system not restored within 7 days subject to maximum penalty of Rs.50,000.00. If Bidder fails to restore even during the penalty period, BG will be invoked including invoking risk purchase.	Agreed	
		9.5 Bidder should confirm to provide spares for a continuous period of 5 years post of warranty and shall also confirm to provide CAMC for 5 years post warranty, if called upon by ECIL.	Agreed	
		9.6 Recommended priced BOQ of post warranty spares shall be furnished with the bid. The prices shall be valid up to end of the warranty	Complied	



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		period. During validity of prices for post warranty spares, ECIL at its sole discretion may procure the same at agreed prices. At least 25 weeks advance notice shall be given regarding obsolescence/ end of life of any of the parts/ components, subsystems etc used in the system to enable ECIL procure sufficient spares. Bids without prices for recommended spares will be rejected summarily.		
10	Training	10.1 Bidder should undertake to train 3 ECIL engineers / its customer engineers nominated by ECIL for 5 working days on all aspects of equipment at OEM's works, like functioning, installation, testing, commissioning, trouble shooting, system operation, maintenance and repair, at no additional cost.	Agreed	
		10.2 Cost of travel, boarding and lodging of ECIL personnel will be borne by ECIL.	Agreed	
11	Dispatch documentation	11 The following documents shall be furnished:	Noted	
		11.1 To ECIL, Hyderabad: Supply part (a) Delivery Challan in duplicate (b) Original Supply Invoice in triplicate indicating Excise Duty/VAT/CST as the case may be. – all ink signed drawn in favor of Stores Officer, Instruments & Security Systems Group, ECIL, ECIL (Post), Hyderabad-500 062.	Agreed	
		(c) Packing List		
		(d) Operation, Maintenance, Servicing manuals in English, (e) Dispatch Clearance and Dispatch Instruction, if any, issued by ECIL.		
		11.2 Every invoice shall indicate Serial No. of PO, Description, Unit, Quantity, and Unit Rate, strictly as per Purchase order.	Agreed	
		11.3 Financial loss to ECIL due to non-compliance of above requirements shall be to the account of Bidder. ECIL will not be responsible for delay in payment due to non compliance invoices of bidder.	Agreed	
12	Prices	12.1 Un priced price bid format as per Annexure C1 should form part of Techno-commercial Bid, indicating against each line entry, all the applicable types of taxes and corresponding rates. The make and model nos. of all equipments should be indicated against the respective line entries. No additional tax rate will be payable subsequently, if the tax rates are increased by Government in the case of non vatable Tax.	Complied	
		12.2 Bidders should submit the offer indicating clearly Basic price against	Complied	



S. No.	Term	Condition	Compliance required	Bidder's response (Yes/No) Deviations/notes/Remarks if any
		each line entry of the BOQ in the price bid format as per Annexure C2.		
		12.3 Prices should be indicated both in figures and words in the Price Bid format Annexure C2.	Complied	
		12.4 Bidder shall note that in case of disagreement in rates and prices and between words and figures, the lesser/least of the values only will be considered for the purpose of evaluation of L1 bidder which shall be binding on the bidder.	Agreed	
		12.5 Prices shall be quoted for 'Free Delivery, ECIL, Hyderabad' and should include all charges towards packing, forwarding, freight, transit insurance, unloading and other incidentals if any etc.	Complied	
		12.6 Prices shall remain firm till execution of the order/contract, including additional quantities as per terms hereunder.	Agreed	
13	Negotiations	Negotiations will not be conducted with Bidders as a matter of routine. However, ECIL reserves the right to conduct negotiation with L1. Hence, Bidders are advised to quote competitive prices considering the fact that price negotiations, if any, will be held only with the techno-commercially qualified lowest Bidder.	Agreed	
14	Liquidated Damages (LD)	14.1 LD will be levied and recovered @ 1% per week of delay or part there of subject to a maximum of 5% of order value including taxes, when the Bidder fails to deliver the ordered goods within the agreed delivery schedule. Date of delivery at ECIL, Hyderabad shall be the basis for the purpose of arriving at LD, if any. Compliance to LD is mandatory.	Agreed	
15	Terms of payment	15.1 1 st stage payment: 70% with 100% Taxes & Duties will be released within 60 days from the date of supply and submission of dispatch documentation as specified furnishable to ECIL, Hyderabad.	Agreed	
		15.2 2 nd stage payment: Balance 30% will be released within 90 days from the date of delivery.	Agreed	
		15.3 All payments will be released from ECIL, Hyderabad	Noted	
		15.4 No advance payments will be made.	Agreed	
		15.5 Non compliant bids with above, will be rejected summarily i.e. term on Payment is Mandatory and non negotiable and bids with counter terms will rejected summarily.	Noted	
		15.6 ECIL shall not be held responsible for delay in payment due to Bidder's delay in submitting the documents as per terms of PO.	Agreed	



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16	Performance cum Warranty Bank Guarantee (PBG)	16.1 Bidder should undertake to furnish PBG within 10 days from the date of notification of Tender Acceptance from ECIL through email. Formal PO will be awarded only upon receipt of PBG. In the event of bidder's failure to comply this condition on PBG, the bidder is liable to forfeit EMD and the bid will be rejected in its entirety. In such event, in addition, ECIL reserves the right to impose LD and invoke Risk Purchase Clause, without further notice.	Agreed	
		16.2 The PBG should be for 10% of the value as specified in Tender Acceptance as per format in Annexure C4 valid for 28 months from the date of issue, with additional claim period of one month to cover the bidder's obligations on performance on the PO and warranty. The PBG should be from a Scheduled Bank of repute and shall be extended from time to time, within 7 days of email notice, to cover intended obligations as demanded by ECIL; failing which ECIL reserves the right to invoke the PBG.	Agreed	
		16.3 In the event of Bidder's failure to discharge Bidder's obligations as per the terms and conditions of PO including performance and warranty, all the costs incurred by ECIL will be recovered through encashment of PBG and any other means available to ECIL. Compliance to this clause is Mandatory.	Agreed	
17	Packing	17.1 Bidder should provide proper packing of the equipment to prevent damage/ deterioration during transit to the destination specified.	Agreed	
		17.2 Packing should withstand rough handling during transit.	Agreed	
		17.3 Packing slip should be kept in each box/case and shall indicate Total Net weight, Total Gross weight of the package, volume and number of packages.	Agreed	
18	Arbitration	18.1 Every effort shall be made to settle all the disputes or differences arising during the execution of the purchase order through mutual conciliation. If this conciliation fails, the disputes/differences shall be addressed to as per the Provisions Arbitration & Conciliation Act 1996.	Agreed	
		18.2 The venue for Arbitration proceedings shall be at Hyderabad.	Agreed	
		18.3 Cost of arbitration proceedings shall be shared equally by the contending parties.	Agreed	



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		18.4 In the event of failure of Arbitration proceedings, either party shall have recourse to law, in which event, only courts in Hyderabad/Ranga Reddy District, Telangana State shall have exclusive jurisdiction, notwithstanding concurrent jurisdiction of other courts	Agreed	
19	Shortages/ Damages	In the event of shortage / damage noticed upon receipt and opening of packages at ECIL Stores, Hyderabad, all such shortages or damages shall be made good by the bidder within 7 days from the date of reporting, free of all charges.	Agreed	
20	Rejections/ Replacements	Bidder should undertake to replace the equipments and materials found to be defective in course of warranty, free of charge, within 7 days of notice.	Agreed	
21	Assignment	The bidder should undertake not to assign any of the obligations of the purchase order when awarded, to any third party or agency, either in whole or in part, except with prior written consent of ECIL.	Agreed	
22	Earnest Money Deposit (EMD)	22.1 Techno-commercial Bid shall accompany interest-free EMD for Rs. 3,50,000.00 (Rupees Three lakhs fifty thousand only) in the form of Demand Draft, drawn on any scheduled bank in favour of 'Electronics Corporation of India Limited' and payable at Hyderabad. Bank Guarantee in lieu of DD is acceptable, if furnished on a Scheduled Bank of repute, strictly as per format in Annexure C5, valid for 45 days from the due date for submission of bids on the Tender with additional claim period of 15 days.	Complied	Details of EMD _____
		22.2 EMD, whether in the form of Demand Draft or Bank Guarantee, should be put in a separate sealed cover, superscribed as "EMD" indicating Tender No. & Date.	Complied	
		22.3 EMD will be returned to the un-successful Bidder within 2 weeks from the date of award of Purchase Order. EMD will be returned to successful Bidder upon furnishing PBG after award of Tender Acceptance. As part of Techno Commercial Bid, Bidder should furnish name of the Bank, Branch, Type of Account and Account No. for return of EMD, if EMD is furnished through Demand Draft.	Noted	
		22.4 If the Bidder revokes, withdraws and modifies the Bid with in the validity period of the Bid, ECIL will forfeit the EMD submitted.	Agreed	
23	Risk Purchase	23.1 In the event of Bidder's failure to deliver the ordered goods within the agreed schedule and as per ordered terms and conditions, ECIL shall have the right to cancel the purchase order and procure these	Agreed	



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		ordered equipment from alternate sources, in which event, the Bidder will be liable to bear all extra cost(s), whatsoever, which may be incurred by ECIL for such alternate procurement. All such costs will be recovered from bills/payables and/or by invocation of Bank Guarantee/s and/or through other means of law.		
		23.2 ECIL reserves the right to invoke Risk Purchase Clause, without further notice, when (i) the bidders fails to furnish PBG as specified upon award of Tender Acceptance (ii) the bidder fails to deliver the equipment as per agreed specifications and delivery or (iii) when the LD reaches maximum or (iv) when the Bidder fails, comply with agreed service levels as specified in the warrantee clause during the warranty period.	Agreed	
24	Confidentiality – cum Non Disclosure	24.1 All the terms and conditions shall be confidential and should not disclose to any third party, without the written consent of ECIL.	Agreed	
		24.2 Bidder should not advertise or publicize through media on the scope and execution of the purchase order, when awarded. ECIL reserves the right to prosecute and/or claim damages for non-compliance.	Agreed	
25	Termination Clause	ECIL reserves the right to cancel the purchase order in part or in full if the bidder (i) fails to supply the equipment as per the agreed specifications or (ii) if the delay in delivery of supplies is attributable to supplier other than Force Majeure beyond any agreed delivery extensions or (iii) if the bidder is declared bankrupt or insolvent.	Agreed	
26	Exclusivity	The Bidder shall undertake in the bid that Bidder shall not offer any supply, service or consultancy to the end user, either directly or indirectly, either in full or in part, w.r.t. the scope of this tender, without the express written consent of ECIL.	Agreed	
27	Force Majeure	27.1 Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of services rendered), if the non performance results from such force majeure circumstances as flood, fire, earth quake and other acts of God as well as war, military operations, blockade, acts or action of state authorities or acts of terrorism or any other circumstances beyond the parties' control that have arisen during the course of the contract, either the contract period will be extended accordingly or notify in writing to ECIL, the beginning and cessation of the above circumstances, not later than	Agreed	



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		10 days from the date of beginning.		
		27.2 If the impossibility of complete or partial performance lasts for more than 3 months, either party hereto reserves the right to terminate the contract upon giving prior 15 days notice, without any liability other than reimbursement on the terms provided in the agreement for the services rendered.	Agreed	
28	Part 2: Price Bid	28.1 Basic Prices should be offered in INR against each line entry of the BoQ, on FoR, ECIL, Hyderabad, basis inclusive of packing, forwarding, freight, insurance, unloading at ECIL, Hyderabad and including all other incidentals, as per price bid format in Annexure C2.	Complied	
		28.2 The Price Bid should contain only price information; and shall not contain any other term, condition or note(s).	Complied	
		28.3 Additional terms, conditions, notes, remarks etc if any in the priced price bid will be summarily ignored.	Agreed	

for ELECTRONICS CORPORATION OF INDIA LIMITED

TECHNICAL MANAGER (PURCHASE)



ANNEXURE - C1						
UN PRICED PRICE BID FORMAT						
S No.	Description	Make & Model No.	Unit	Qty	Type of Tax	Rate (%) of Tax
1	Colour Cameras with 10X or better zoom Lens, explosion proof outdoor enclosure, Mount & it's accessories as per specifications in Annexure – T2, Item no: 1.		Nos	14		
2	Explosion proof integrated PTZ Cameras with 36X optical Zoom, pan & tilt, mount & it's accessories as per specifications in Annexure – T2, Item no: 2.		Nos	18		
3	Joystick Keyboard for PTZ control of cameras and controlling DVRs as per specifications in Annexure – T2, Item no: 3.		Nos	5		
4	16 channel Digital Video recorder with built in 4 TB HDD supports D1 resolution @ 25 FPS as per specifications in Annexure – T2, Item no: 4.		Nos	6		

Note 1: If any line item in the entry attracts more than one type of tax, the same may be specified in the columns Type of Tax and Rate of Tax.

Note 2: The Un priced price bid format should be furnished as part of Techno Commercial bid, with a certification that 'Prices have been quoted for all the line entries and the priced price bid format as per Annexure C2 contains only prices for different quantity slabs and no other note, remark, term or condition. We understand and agree that any terms, counter/additional conditions or notes, if any, found in Price Bid, other than the prices, shall be summarily ignored by ECIL'.

Signature, date and seal of the Bidder



ANNEXURE - C2								
PRICED PRICE BID FORMAT								
S No.	Description	Make & Model No.	Unit	Qty	Unit Rate Rs. (In figures)	Unit Rate Rs. (In words)	Total value Rs. (In figures)	Total value Rs. (In words)
1	Colour Cameras with 10X or better zoom Lens, explosion proof outdoor enclosure, Mount & it's accessories as per specifications in Annexure – T2, Item no: 1.		Nos	14				
2	Explosion proof integrated PTZ Cameras with 36X optical Zoom, pan & tilt, mount & it's accessories as per specifications in Annexure – T2, Item no: 2.		Nos	18				
3	Joystick Keyboard for PTZ control of cameras and controlling DVRs as per specifications in Annexure – T2, Item no: 3.		Nos	5				
4	16 channel Digital Video recorder with built in 4 TB HDD supports D1 resolution @ 25 FPS as per specifications in Annexure – T2, Item no: 4.		Nos	6				

Signature, date and seal of the Bidder



ANNEXURE- C3

Manufacturer's Authorization Certificate (MAC) to be furnished on the official stationery of the OEM
(to be provided separately from respective OEMs for various components of scope of Tender)

To
DGM, Materials, Instruments & Security Systems Group
Electronics Corporation of India Limited
Hyderabad -500 062

Subject: Manufacturer's Authorization Certificate

Reference: Your Tender No. _____ Dtd _____

Dear Sir,

This is with reference to the above mentioned Tender; we hereby authorize M/s_____ to submit the bid on our behalf.

We, as OEM, undertake to provide all the support necessary for supply, to M/s_____ (name of the Bidder), in the event award of Purchase Order awarded to them. We also hereby confirm that the Tender equipment i.e. ECCTV quoted in the bid would be serviceable and maintainable during the warranty period of 24 months and for a further period five years thereafter. We hereby confirm our support in terms of spares and service to M/s _____ (name of the Bidder) during warranty period and post warranty period of five years. At least 25 weeks advance notice will be given regarding obsolescence/ end of life of any of the parts/ components, subsystems etc used in the system to enable ECIL procure sufficient spares.

(Authorized signatory of OEM)

Name

Designation

Tel No.:

Land Line:

Mobile No.

Email id:

Website address:



ANNEXURE C4
PERFORMANCE CUM WARRANTY GUARANTEE

This Deed of Guarantee is made this _____ day of _____ (month), _____ (year), between _____ (Name of the Bank with address), (hereinafter called the “Guarantor”, which expression shall unless repugnant to the context or meaning thereof be deemed to include its successors and assigns) of the One Part

and

Electronics Corporation of India Limited, a Government of India Enterprise, a Company incorporated under the Companies Act, 1956, having its Registered Office at ECIL (P.O), Hyderabad – 500 062, (hereinafter called the ‘Company’ which expression shall unless repugnant to the context or meaning thereof be deemed to include its successors and assigns) of the Other Part.

Whereas the Company expressed its intent to award purchase order vide The Company’s Tender Acceptance No. _____ dtd _____ and the Contractor having accepted the same and the consequent Purchase Order with terms and conditions therein, and the Tender Acceptance referred above together with the Purchase Order shall hereinafter referred to as the “Purchase Order”) to M/s _____ (name and address) (hereinafter referred to as the “Contractor”) for supply, technical support and warranty support of ECCTV Equipment.

And whereas the Purchase Order, inter-alia, provides that the Contractor shall furnish to the Company a Performance Bank Guarantee for a sum of Rs. _____ (Rupees _____ only) for due and faithful performance of the said Purchase Order in the form and manner specified in the said purchase order.

And whereas the Contractor has approached the Guarantor and in consideration of the arrangement arrived at between the Contractor and the Guarantor, the Guarantor has agreed to give Guarantee as hereinafter mentioned in favour of the Company.

Now this Deed witnesses as follows:

1. The Guarantor do hereby guarantee to the Company the due and faithful performance, observance and execution of the Purchase Order including the terms and conditions therein, by the Contractor and further unconditionally and irrevocably undertake to pay to the Company without demur and merely on a demand, to the extent of Rs. _____ (Rupees _____)



when claim is made by the Company on them for any loss, delay, damage, costs, charges and expenses caused to or suffered by the Company by reason of the Contractor making any default or violating the Purchase Order terms.

2. The decision of the Company whether any default has occurred or has been committed by the Contractor in the performance, observance, discharge, execution of any of the terms, conditions, stipulations or undertakings or any one of them as contained in the Purchase Order and/or as to the extent of losses, damage costs, charges and expenses caused to or suffered by the Company by reason of the Contractor making any default in the performance, observance and discharge of any of the terms, conditions, stipulations and undertakings or any one of them shall be conclusive and binding on the Guarantor, irrespective of the fact whether the Contractor admits or denies the faults or questions the correctness of any demand made by the Company in any Court, Tribunal or Arbitration proceedings or before any other Authority.

3. The Company shall have the fullest liberty without affecting in any way the liability of the Guarantor under this Guarantee from time to time to vary any of the terms and conditions of the Purchase Order or extend time of performance by the Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of the said terms and conditions governing the said Purchase Order and the Guarantor shall not be released from its liability under these presents and the liability of the Guarantor here under shall remain in full force and effect notwithstanding any exercise by the Company of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Contractor or of any other matter or thing whatsoever which under the law relating to sureties, would, but for this provision have the effect of so releasing the Guarantor from its liability under this Guarantee.

4. The Guarantor further agrees that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the Purchase Order and its claims satisfied and discharged and till the Company certifies that the terms and conditions of the Purchase Order have been fully and properly carried out by the Contractor and accordingly discharges this Guarantee subject to, however, that the Company shall have no claim under this Guarantee after _____ (28 months from the date of issue of Bank Guarantee), unless a notice of the claim under this Guarantee has been served on the Guarantor on or before _____ (28 months + additional claim period of 30 days for lodging the claim). The company is entitled to lodge its claim up to _____ for any non performances, defaults, damages etc occurred during the validity period of this Bank Guarantee, i.e. 28 months from the date herein.



5.The Guarantor undertakes not to revoke this Guarantee during this period it is in force except with the previous consent of the Company in writing, and agree that any liquidation or winding up or dissolution or any change in the constitution of the Contractor or the Guarantor, shall not discharge the Guarantor's liability hereunder.

6. It shall not be necessary for the Company to proceed against the Contractor before proceeding against the Guarantor and the Guarantee herein contained shall be enforceable against them notwithstanding any security, which the Company may have obtained or obtain from the Contractor shall, at the time when the proceedings are taken against the Guarantor hereunder be outstanding or unrealized.

7.The Guarantor hereby declares that it has power to execute this Guarantee under its Memorandum and Articles of Association and the executant has full powers to do so on its behalf and the Power of Attorney, granted to him/her by the proper authority of the Guarantor.

8.This Guarantee is valid till _____ (28 months from the date herein) and the Company is entitled to lodge its claim on the Guarantor on or before _____ (28 months plus 30 days). The Guarantor hereby undertakes to honor the said invocation without demur.

In witness whereof _____ (Bank name and address) have here unto set and subscribed the hand the day, month and year first above written.

Witness:

Signed for and on behalf of the Bank (Guarantor)

- 1.
- 2.



ANNEXURE C5
EMD BANK GUARANTEE

(To be submitted on non-judicial stamp paper of Rs.100 from a Nationalized or Scheduled Bank only)
WHEREAS M/s _____ (Name and address of the Bidder) intends to submit a Bid, hereinafter called 'The Bidder', to M/s Electronics Corporation of India Limited, Hyderabad, hereinafter called 'The Company', against the Tender by The Company vide reference No. _____ dated _____ (Tender no. & date) for Supply, functional equipment as specified in the said Tender.

Now, by this Guarantee, we, the undersigned on behalf of _____ (name of the Bank) whose registered office is at _____ (address of the Bank) bind ourselves unconditionally and irrevocably for payment to The Company, of the sum of Rs. _____ (Rupees _____) as Earnest Money Deposit to indemnify The Company in case of default by The Bidder. The conditions of the above obligations are such that if M/s _____ (name of the Bidder) shall not keep their Bid being submitted to The Company as set forth in the in the said Tender as valid and unaltered until 60 days from the due date of the Tender i.e. up to _____ and/or refused to accept the Tender Acceptance of the Company as set forth in the Tender and in accordance with the terms of the Tender and as modified with mutual understanding subsequently or after having accepted the Tender Acceptance does not comply by furnishing the required compliances as communicated in the intent by the Company to award purchase order, then this obligation remains in full force and effect, otherwise to be null and void.

In case, this obligation is effective, we, _____ (Name of the Bank) undertake to pay to the Company any amount up to the above indicated sum, upon a mere written request, without any demur or protest and without reference to M/s _____ (name of the Bidder) within 3 days from the date of such request/demand in any manner in which The Company may direct and also without the necessity of instituting and proceeding whether judicial or otherwise, at any time upon the Bidder committing any one or more of the following:

- a) withdraws the Bid during the validity period or any extension when sought and if granted thereof, or,
- b) if the Bidder varies or modifies the Bid in a manner not conforming to Tender Conditions which are not acceptable to the Company during the validity period of the Bid or any extension of the validity duly agreed to by the Bidder, or,
- c) If the Bidder whose offer has been accepted fails to furnish Performance Cum Warranty Guarantee within ten days of the Company's notification of Tender Acceptance/its intent to award of purchase order/contract or by the date mutually agreed to, whichever is later.

We, _____ (name of the Bank), agree that our liability to pay is not dependant on conditions on your proceeding against the Bidder and we shall be liable to pay an amount not exceeding the aforesaid amount as and when merely demanded by you or claim being raised by you and even before any legal proceedings are taken against the Bidder.

We, _____ (name of the Bank) undertake not to revoke this Guarantee during its currency except with the previous written consent of The Company. The Guarantee herein shall not be revocable by notice or by reasons of dissolution or



winding up of the business of the Bidder or the Guarantor or any change in the constitution or composition of the Bidder or Guarantor.

This Guarantee shall remain valid in case the Bid is accepted, until furnishing of Performance Cum Warranty Guarantee by the Bidder in the manner specified by the Company and in any case until _____ (45 days from the due date+15 days = 60 days from the due date for submission of the bid) i.e. the Company is entitled to lodge the claim under this Guarantee up to _____. (60 days from the date of due date for submission of the bid).

We, _____ (name of the Bank) have power to issue this Guarantee in your favour under Memorandum and Articles of Association and the undersigned has full powers to do so under the Power of Attorney granted by the Bank. After the here above mentioned date, the Guarantee shall lapse automatically without necessity to be returned to the Bank.

Signature of the person duly authorized to sign on behalf of the Bank, with Seal of the Bank, Date:

Witness:

- 1.
- 2.



ANNEXURE C6
WARRANTEE CERTIFICATE

(To be furnished with Techno-Commercial bid)

To
Deputy General Manager (Materials)
Instruments & Security Systems Group
Electronics Corporation of India Limited
Hyderabad – 500 062
INDIA

Ref: Your Tender No. _____ Dtd _____

We guarantee that the equipment to be supplied under this Tender shall be brand new, free from all encumbrances, defects and faults in material, workmanship and manufacturing and shall be of the highest grade and quality and consistent with the established and generally accepted standards for equipments/ materials of the type ordered and shall be in full conformity with the specifications, drawings or samples, if any, and shall operate properly. We shall be fully responsible for performance of the equipment/materials till a period of 24 months from the date of acceptance by the Purchaser.

The obligations under the guarantee expressed above shall include all costs relating to labor, repair, maintenance (preventive and un scheduled), and transport charges from site to manufacturers' works and back and for repair /adjustment or replacement at site of any part or whole of the equipment/ material which under normal care and proper use and maintenance proves defective in design, material or workmanship or fails to operate effectively and efficiently or conform to the specifications and for which notice is promptly given to us by the Purchaser.

We hereby further undertake to adhere and comply with all the conditions of the purchase order, governing the warranty obligation.

SIGNATURE, DATE & SEAL OF BIDDER

DATE: _____



ANNEXURE C7
COMPOSITION OF THE BID DOCUMENT

Total bid document should be organized and submitted as under:

1. Tender Document fees Demand Draft in original
2. Envelope containing EMD DD/Bank Guarantee in original
3. Envelope containing Techno Commercial Bid in original
4. Envelope containing the Price Bid in original
5. All the above four envelopes sealed and superscribed individually should be put into a separate envelope duly sealed and superscribed.
6. Order of documents of Techno Commercial Bid referred at 3 above: The Techno Commercial Bid should be organized and complied with documents in the order of and as relevant to the tender terms in the order they appear in the tender document.

(All the pages of the bid document should be Serially Numbered).



BOQ – ANNEXURE – T1				
Item No	Item Description	Make / Model	Unit	Qty
1	Colour Cameras with 10X or better zoom Lens, explosion proof outdoor enclosure, Mount & it's accessories as per specifications in Annexure – T2, Item no: 1.		Nos	14
2	Explosion proof integrated PTZ Cameras with 36X optical Zoom, pan & tilt, mount & it's accessories as per specifications in Annexure – T2, Item no: 2.		Nos	18
3	Joystick Keyboard for PTZ control of cameras and controlling DVRs as per specifications in Annexure – T2, Item no: 3.		Nos	5
4	16 channel Digital Video recorder with built in 4 TB HDD supports D1 resolution @ 25 FPS as per specifications in Annexure – T2, Item no: 4.		Nos	6



ELECTRONICS CORPORATION OF INDIA LIMITED

INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

ANNEXURE – T2

Item No: 1: Technical specifications of Explosion proof Fixed box type camera

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
1	Signal System	PAL	M		
2	Image Sensor	1/3" or 1/4" Sony Super HAD / CCD	D		
3	Total Pixels	470,000 pixels, 795(H) x 596(V)	D		
4	Effective Pixels	440,000 pixels, 752(H) x 582(V)	M		
5	Scanning System	PAL 625 lines, 2:1 interlace / progressive	M		
6	Horizontal Resolution	520TVL or better	M		
7	Sync system	Internal / Line lock	M		
8	S/N Ratio	More than 50dB (AGC OFF)	D		
9	Min. illumination	0.5 lx (50 IRE) / 0.05 lx (50 IRE, IR Filter OFF)	D		
10	Lens	Varifocal 10x (f=5 ~ 50 mm) or better	D		
11	View of Angle	H : 57.8° (wide), 1.7° (tele) / V : 43.7° (wide), 1.3° (tele)	D		
13	Shutter speed	1/50 - 1/10000 sec or better	D		
14	White Balance	ATW / INDOOR / OUTDOOR / MANUAL / AWC	D		



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INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
15	Day & Night	ON / OFF / AUTO Selectable	D		
17	BLC	OFF / ON Selectable	D		
18	WDR	ON / OFF Selectable	D		
19	DNR	OFF / LOW / HIGH	D		
22	Input Power	220VAC \pm 10%. If camera operates on 12VDC / 24V AC, suitable power supply adaptor shall be supplied along with camera.	M		
23	Power Consumption	Max 30W	D		
24	Temperature	-20°C to 55°C	M		
26	Front window	Fully tempered plate glass	M		
27	Housing Construction	SUS 316	D		
28	Protection degree	IP 66, Explosion proof	M		
29	IECEx Certificated Class	II2 G, Exd IIC T6 Gb (IECEx, ATEX, KCs)	M		
30	Certification	CCOE / PESO certificate for the offered model should be submitted along with offer	M		
31	Accessories	Wall mount bracket with Pan / tilt bracket should be supplied along with camera	M		



ELECTRONICS CORPORATION OF INDIA LIMITED

INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

Item No: 2: Technical specifications of Explosion proof 36x Zoom, PTZ camera

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
1	Image Sensor	1/4" Sony Super HAD II (Double Scan) / Color CCD	M		
2	Horizontal Resolution	460 TVL or better	M		
3	Scanning System	625 line, 2:1 interlace / progressive	M		
4	Effective Pixels	704 (H) x 596 (V) or better	D		
5	Minimum Illumination	0.5 lx (50IRE), 0.02 lx (50IRE, IR Filter OFF)	D		
6	Sync. System	Internal / Line lock	M		
7	S/N Ratio	50dB (AGC OFF) or better	D		
8	Shutter Speed	1/50 ~ 1/10,000sec	M		
9	Focal Length	3.4mm ~ 122.4mm or better	M		
10	Aperture Range	F1.6 (wide) ~ F4.5 (tele)	D		
11	Day/Night Switch	ON / OFF / AUTO selectable	D		
12	White Balance	Auto /ATW / Indoor / Outdoor / Manual	D		
13	BLC	BLC OFF / BLC / WDR	D		
14	Video Output	Composite output 1Vp-p (75ohm terminal)	M		
15	Video Standard	PAL	M		



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INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
16	Privacy Masking	8 zones	D		
	Pan, Tilt, Zoom Parameters				
17	Pan Angle	360° continuous rotation	M		
18	Tilt Angle	320° rotation or better	D		
19	Pan / Tilt Speed	0.5° ~ 60°/sec / Max 60°/sec	D		
20	Zoom	36x optical zoom, 12 x digital zoom or better	M		
21	PTZ Tours	4 tours or more	M		
22	Pattern	4 patterns or more	D		
23	Preset Position	Min 64 positions with focus, iris, BLC setting	M		
24	Scan	8 scans or more	D		
25	Control	RS-485	M		
26	Protocol	Multiprotocol support like Auto, S2, S2E, Pelco P/D, EZ, VCL, KD6, etc. Protocol shall be compatible with offered DVR / Joystick Keyboard.	D		
	Alarm				
27	Alarm Input	1 normal dry contacts (NC / NO selectable)	M		
28	Relay Output	1 Relay (NC / NO selectable)	D		
	Electrical				
29	Power Supply	100 ~ 240V AC, 50/60Hz. If camera operates on other than mains, suitable	M		



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INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
		power supply adaptor shall be supplied along with camera.			
30	Power Consumption	150W or less	D		
	Mechanical				
31	Viewing Window	Ground and polished, fully tempered plate glass	M		
32	Housing Construction	Aluminum / SUS 316	M		
33	Mounting	Wall mount	M		
34	Control Connector	Terminal block or Suitable male &female connector shall be supplied along with camera	M		
	Environmental				
35	Protection Class	Explosion proof, IP66 or better	M		
36	Operating Temperature	-20°C ~ 60°C	M		
	Regulatory				
37	Certification	CCOE & Ex d IIC T6 / ATEX II 2 G / CE / FCC	M		
38	Accessories	Wall mount bracket should be supplied along with camera	M		



ELECTRONICS CORPORATION OF INDIA LIMITED

INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

Item No: 3: Technical specifications of Joystick Keyboard for DVR

S NO.	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
1	Function	Control of offered DVR and PTZ / Zoom cameras connected to DVR.	M		
2	Communication	DVR interface- RS485 or TCP / IP (RJ45)	D		
3	Protocol	Pelco P & D or any other standard Compatible protocol suitable for offered DVR	M		
4	PTZ Control	Joy Stick (3 axis)	D		
5	Display	LCD	M		
6	Operating voltage	230VAC to required input voltage, power supply adaptor shall be supplied with keyboard	M		
7	Power Consumption	< 6W.	D		
8	Operating Temp.	Up to 50°C.	D		



ELECTRONICS CORPORATION OF INDIA LIMITED

INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

Item No: 4: Technical specifications of 16 Channel Digital Video Recorder with builtin 4TB HDD.

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
1	Video Compression format	H.264	M		
2	Video input	16 Ch. Composite, BNC, 1Vp-p, 75	M		
3	Video output	Min 1 Composite (BNC, 1Vp-p, 75), 1 VGA or HDMI	M		
4	Video looping outputs	16 Composite, BNC, 1Vp-p, 75	M		
5	Format supported	PAL	M		
6	Recording resolution per channel	PAL: 4CIF (704 x 576) or D1 @ 25fps for all the channels	M		
7	Frame rate	1 – 25 FPS selectable per camera	M		
9	Audio input	4 ch minimum	M		
10	Audio output	1 Line Out	M		
11	Display	Single and Multiscreen	M		
12	PTZ Control port	RS422 / RS 485 port for PTZ camera / Zoom camera control	M		
13	Joystick Interface	RS485 Multidrop or suitable communication protocol (to be specified by bidder) for Joystick keyboard.	M		
14	USB Ports	2 USB ports.	M		
15	It should be capable to interface with PTZ controller (Joystick keyboard) for control of PTZ cameras and 36X zoom cameras which support Pelco D & P protocol.		M		
16	Network port	Min 1 No 10 / 100 / 1000 MBPS and shall support TCP/IP	M		
17	Alarms	16 inputs, 3 outputs.	M		



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INSTRUMENTS & SECURITY SYSTEMS GROUP – MATERIALS

ERMS & CONDITIONS OF PUBLIC TENDER NO: ECIL/ISG/PUR/PT/14-15/01 DTD 27.10.2014

S.NO	PARAMETER	SPECIFICATIONS	MANDATORY / DESIRABLE	BIDDERS COMPLIANCE	DEVIATIONS IF ANY
18	Internal Storage	Internal: 4 TB shall be available. Shall Support up to 4 / 8 SATA HDD, 8 TB storage support.	M		
19	External Storage	It shall support external eSATA storage array.	D		
20	Backup	It shall support External USB DVD writer / USB pen drive or it shall have Built-in DVD writer.	D		
21	Recording mode	Continuous, Manual, schedule, motion detection & alarm / event trigger.	M		
22	Configuration	Via PC or front panel.	M		
23	Operation	Front panel, remote control, mouse.	M		
24	Power consumption	<75W.	D		
25	Power Off protection	Power ON self recovery.	M		
26	Supply voltage	100 to 240VAC, 50Hz or 230VAC to required input voltage, power supply adaptor shall be supplied with DVR	M		
27	Operating temperature	Up to 45°C.	D		
28	Humidity	Up to 90%RH.	D		
29	Dimension	Standard 19" rack mountable	M		
30	All necessary accessories like cables/ connectors, power supply adaptors, converters if required etc. for successful functioning of DVR and integration of joystick keyboard with DVR		M		

End of the Document