

# सुरक्षा मुख्यालय, उत्तर प्रदेश

413 डा0 बैजनाथ रोड, ओम निवास, न्यू हैदराबाद, लखनऊ।

Fax No 0522-2781005

निविदा संख्या: सुरक्षा/आधु.सीसीटीवी-285/2015-16

दिनांक: जून 24, 2016

निविदा खुलने की तिथि- 18.07.2016

## पूर्णकालिक निविदा

सुरक्षा मुख्यालय द्वारा पी.टी.जेड कैमरों के क्रय एवं आपूर्ति के सम्बन्ध में पूर्णकालिक निविदा दो-दो प्रतियों में (टेक्निकल बिड एवं फाइनेन्शियल बिड) अधिकृत निर्माताओं/वितरकों/एजेन्टों एवं भारत सरकार के उपक्रमों के माध्यम से अधोहस्ताक्षरी द्वारा आमंत्रित की जाती है। उपकरण का विवरण निम्नवत है:-

क्रम	उपकरण का नाम	कुल मात्रा	अर्नेस्ट मनी की धनराशि (रूपये में)	निविदा फर्म की धनराशि (रूपये में)
1	2	3	4	5
1	पी.टी.जेड कैमरा मय सहवर्ती उपकरण	02	21,500.00	350

2. उपरोक्त उपकरणों हेतु टेण्डर से सम्बन्धित कोई भी जानकारी किसी भी कार्य दिवस में दूरभाष नम्बर-0522-2781005/2782779/2781002 पर प्राप्त की जा सकती है। अधोहस्ताक्षरी के कार्यालय का फैक्स नम्बर 0522-2781005 है। निविदा प्रपत्र कार्यालय कार्य दिवस में निर्धारित शुल्क जमा कर निविदा प्रपत्र व अन्य अभिलेख दिनांक 18.07.2016 समय 1100 बजे तक कार्यालय से व्यक्तिगतरूप से प्राप्त की जा सकती है। जिन फर्मों को निविदा प्रपत्र स्पीड पोस्ट या कोरियर से प्राप्त करना हो, वे निविदा प्रपत्र के मूल्य के साथ अलग से रूपये 100/- (डाक खर्च हेतु) का डिमाण्ड ड्राफ्ट जो पुलिस महानिरीक्षक, (सुरक्षा), सुरक्षा मुख्यालय, उ0प्र0 लखनऊ के पक्ष में देय हो, भेजना होगा। इस सम्बन्ध में डाक में हुई किसी प्रकार की विलम्बता का उत्तरदायित्व सुरक्षा मुख्यालय, उ0प्र0 लखनऊ का नहीं होगा। प्रत्येक उपकरण के लिये अलग-2 निविदा प्रपत्र कय करके अलग-अलग निविदा प्रस्तुत की जायेगी:-

1. प्रत्येक उपकरण/निविदा के लिये अलग-2 उनके समक्ष अंकित धनराशि (अर्नेस्ट मनी) का डिमाण्ड ड्राफ्ट/बैंकर्स चेक जो पुलिस महानिरीक्षक, (सुरक्षा), सुरक्षा मुख्यालय, उ0प्र0 लखनऊ के पक्ष में देय हो, संलग्न करना होगा। अर्नेस्ट मनी के अभाव में निविदा पर विचार नहीं किया जायेगा।
2. निविदादाता द्वारा निविदा की शर्तें पूर्ण न करने पर निविदा निरस्त कर दी जायेगी।

3. यदि फर्म अर्नेस्ट मनी जमा करने से मुक्त हो तो शासकीय आदेश की प्रति लगायी जाये (डी.जी.एस.डी. नई दिल्ली, एन.एस.आई.सी. नई दिल्ली, डी.आई. कानपुर, यू.पी.एस.आई.सी. कानपुर में रजिस्टर्ड फर्म अर्नेस्ट मनी जमा करने से मुक्त है)।
4. इन्टरनेट से निविदा फार्म डाउनलोड किये जा सकते हैं, परन्तु निविदा प्रपत्र के मूल्य की धनराशि का बैंक डाफ्ट पुलिस महानिरीक्षक,(सुरक्षा),सुरक्षा मुख्यालय, उ0प्र0 लखनऊ के नाम देय हो, अलग से टेक्निकल बिड में लगाना अनिवार्य होगा।
5. अधोहस्ताक्षरी निविदा को बिना कारण बताये आंशिक या पूर्णरूप से अस्वीकार करने हेतु सक्षम होगा। अधोहस्ताक्षरी को क्रय किये जाने वाले उपकरणों की संख्या घटाने बढ़ाने का भी अधिकार होगा।
6. जिन फर्मों के उपकरण डी.जी.एस.डी. नई दिल्ली, डी.आई. कानपुर, में दर अनुबन्ध पर उपलब्ध है, को निविदा प्रस्तुत करते समय सम्बन्धित आवश्यक दस्तावेज की प्रतिलिपि संलग्न करना अनिवार्य होगा।
7. निविदा सम्बन्धी नियम/शर्तें, स्पेशीफिकेशन, एस.पी.डी.-3 फार्म उ0प्र0 पुलिस की वेबसाइट <http://uppolice.up.nic.in> पर देखा एवं डाउनलोड किया जा सकता है।
8. प्रत्येक उपकरण हेतु अलग-अलग निविदा प्रस्तुत की जानी है। यदि कोई फर्म एक उपकरण के लिये एक से अधिक मॉडल की निविदा प्रस्तुत करना चाहती है तो उसे अलग-अलग निविदा प्रस्तुत करनी होगी।
9. निविदादाओं अधिकृत एजेन्ट/वितरक/निर्माताओं को ट्रेड टैक्स/वैट रजिस्ट्रेशन का प्रमाण-पत्र लगाना होगा। फर्म को 10 रुपये के स्टैम्प पेपर (नोटरी द्वारा सत्यापित) पर यह शपथ-पत्र देना होगा कि कभी भी किसी सरकारी विभाग द्वारा काली सूची में नहीं डाला गया है।
10. निविदादाता फर्म निर्धारित स्पेशीफिकेशन से उच्च स्पेशीफिकेशन के उपकरणों की निविदा प्रस्तुत कर सकती है जिनका अन्तिम निर्णय तकनीकी समिति द्वारा किया जायेगा।
11. यदि निम्नलिखित दिवसों में अवकाश हो तो निविदायें अगले कार्य दिवस शनिवार/रविवार के अतिरिक्त निर्धारित समय पर खोली जायेगी।

(अ) निविदा जमा करने की अन्तिम तिथि/समय	18.07.2016	1200 बजे
(ब) टेक्निकल बिड खोले जाने की तिथि/समय	19.07.2016	1600 बजे
(स) उपकरणों के प्रदर्शन की तिथि/समय	21.07.2016 प्रारम्भ	1200 बजे

( उदय शंकर जायसवाल )  
पुलिस उप महानिरीक्षक(सुरक्षा)

# Security Head Quarter,U.P.

413,Dr Baijnath Road, New Hyderabad, Lucknow

Fax No 0522-2781005

No. Suraksha-Adhu.CCTV-285/2015 -16

Dated: June 24 ,2016

Date of opening tender July 18 ,2016

## **OPEN TENDER NOTICE**

The tender for the P.T.Z. Camera is invited in duplicate including Technical Bid and Financial bid from the authorized manufacturer/Distributor /authorized agents and PSUs. Equipment details is as follow:-

S.N.	Name of the Equipment	Quantity	EMD Required in Rupees	Proposal Form Fee (in Rupees)
1	P.T.Z. Camera with relevant equipments as per tender specification	02	21,500.00	350

2. Firms willing to participate in tender of above equipments can obtain Tender Form along with terms and conditions and specifications of the equipment by depositing the cost of tender form as mentioned above in cash on any working day in the office of the undersigned **till -07-2016 at 1100 Hrs.** Any enquiry regarding tender can be obtained from telephone No. (0522) 2781005/2782779 on any working day. The fax No. of undersigned is 0522-2781005. Those firms willing to get tender form through post. will have to send money order of the cost of tender form. The firms willing to get the tender form through courier have to send money order of the cost of tender form along with Rs. 100.00 extra (Courier charges). Money order should be addressed to the under signed. Security branch shall not be responsible for any postal or courier delay.

3. Tender form can also be downloaded through website of U.P.Police and Information department of U.P. at i.e. <http://uppolice.up.nic.in> and [www.upgovt.nic.in](http://www.upgovt.nic.in). but the cost of tender form must accompany with the tender in the shape of Demand Draft in the favour of **I.G. of Police (Security) U.P. payable at Lucknow** otherwise tender will be rejected out rightly.

4. Separate tender form is required for every model of the equipment. If more than one model is quoted in one tender it will not be considered and stand cancelled.

5. Please note down the following points very carefully before floating the tender:-

(1) Earnest Money as mentioned against each equipment in the form of Demand Draft in favour of **I.G. of Police (Security) U.P. payable at Lucknow** has to be enclosed along with every tender. In absence of Earnest Money tender shall be rejected.

(2) Tender submitted not complying with the terms and conditions or a Conditional tender shall be rejected.

(3) If the firm is exempted from depositing Earnest Money, the copy of order for the same has to be enclosed along with the tender (firms registered with DGS&D New Delhi, NSIC New Delhi, D.I. Kanpur and UPSIC Kanpur are exempted from depositing earnest money).

(4) Undersigned is not bound for minimum contract and reserve the right to terminate the full or any part of the contract. and also reserve the right to increase or decrease the number of equipments to be purchased.

(5)The bidders whose equipments are available at Rate Contract from DGS&D New Delhi or D.I. Kanpur have to enclose all relevant documents along with the tender.

(6)Authorized agent/distributor/manufacture (as the case may be) has to enclose all required certificates such as Trade Tax/ VAT registration, Notary certified self declaration for not blacklisting by any Govt. Organization in India on a Non Judicial Stamp of Rs. 10-00 only. In the absence of these certificates and affidavits tender shall not be considered.

(7)Bidder can quote equipment of higher specifications mentioned in the Technical specifications but the decision of the Technical Sub Committee will be final and binding to all.

(8)If there is holiday on specific date the tenders would them open on next working day apart from Saturday / Sunday. Programme of the tender is as follows:-

- |    |                                     |                                 |
|----|-------------------------------------|---------------------------------|
| a) | Date/Time of Submission of tender : | 18 /07/2016 till 12:00 Hrs      |
| b) | Date/Time of Opening of tender :    | 19/07/2016 at 16:00 Hrs         |
| c) | Date/Time of Demonstration :        | Started 21/07/2016 at 12:00 Hrs |

**Note:** Representatives of the firms participating in the tender should have enough time at their disposal for the demonstration of their equipment so that they do not feel inconvenient in case of change in time schedule.

**( Uday Shankar Jaiswal )**  
Dy Inspector General of Police(Security)

## No. Suraksha-Adhu.CCTV-285/2015-16

S.N.	Name of the Equipment	Quantity	EMD Required in Rupees	Proposal Form Fee (in Rupees)
1	P.T.Z. Camera with relevant equipments as per tender specification	02	21,500.00	350

### TERMS AND CONDITIONS OF TENDER

1. The sealed tenders shall be accepted by the undersigned up-to 12.00 hrs. on July 18 ,2016. There after, the tenders shall be opened in the presence of the Bidders / their authorized agent at 16-00 Hrs. On July ,2016. at Security H.Q, "OM NIWAS " 413 Dr.Bajinath Road, New Hyderabad, Lucknow.

2- The tenderer shall give the Technical Bid and the Financial Bid each in duplicate and in separate sealed covers respectively clearly marked as "**Original Technical Bid** " "**Duplicate Technical Bid**" "**Original Financial Bid**" " **Duplicate Financial Bid**" in red ink. All these four envelops should be kept in one large envelop and sealed marked as "**Tender for.....**" The **Technical bid (Original)** will accompany Original Tender form (SPD-3) issued by the office, Technical offer such as Technical detail of the equipment along with Original brochure/ leaflets of the equipment (Not photo copy) and Earnest Money Deposit , Authorization of Original Equipment Manufacturer and other document asked for except Financial offer. The **Financial bid** will accompany photo copy of SPD-3 issued by the office. Financial offer in which Price of the equipment and taxes will be entered separately along with supply schedule and rate of AMC after expiry of the warranty period. The Technical and Financial bid shall be clearly marked stating name of equipment, tender notice no and date on the top of the envelop. The Financial bid shall be opened only after evaluation of the Technical Bid. The date of opening of Financial bid will be intimated in due course to the representatives of the qualified firms after evaluation of the Technical parameters .Tender documents and earnest money should be enclosed with Original Technical Bid . The Duplicate Technical Bid and Financial Bid should carry photocopy of the details provided in the respective original Technical and Financial Bid. Tenders which are incomplete ,without earnest money, Conditional tenders, first hand non-compliance of specified Technical parameters shall not be considered. Name of manufacturer, service centers in India should be mentioned in Technical Bid.

3- Incomplete offers, offer not conforming fully to Technical Evaluation requirements or with vague replies or without EARNEST MONEY (If applicable) or Conditional Offer will be rejected. **The tenderer shall quote only one model in the Technical bid/ Financial Bid.** If any tenderer willing to quote more than one model he should have to submit separate tender form for each and every model. The Technical offer must specify the name and address of the manufacturing company and their service centres in India.

4- The demonstration of the equipments will be held as per tender schedule. in Security H.Q. premises at **413, Dr. Bajinath Road, New Hyderabad, Lucknow**.No request for extension for demonstration date will be considered.

5- Every tender should be accompanied with earnest money (If applicable) in the form of Bank Draft cash certificate, Defence bond certificate, National Saving Certificate, Deposit –at- call (Issued by Nationalized Bank) valid for three years and pledged to the **Inspr.Genl. of Police(Security)U.P., Lucknow** payable at Lucknow. The earnest money will not be accepted in any other manner , and in those cases the tender submitted will not be accepted.

6- The tender form can be procured and submitted from the office of the undersigned at Security Branch, "Om Niwas" ,413, Dr. Bajinath Road, New Hyderabad, Lucknow on either in cash or by money order addressed to the undersigned with the cost of tender form mentioned in tender notice .The firms willing to get the tender form through courier or speed post have to send Rs. 100.00 extra (Courier/

postal charges) otherwise tender will be dispatched through ordinary post. Money order should be addressed to the under signed. The security branch shall not be responsible for any postal or courier delay. If amount will not be received the tender documents will be sent through ordinary post and the undersigned shall not be responsible for any postal delay. Cost of tender form will not be refundable/adjustable in any circumstances.

7- Tender can be downloaded through website of U.P.Police and Information department of U.P. i.e. <http://uppolice.up.nic.in> and [www.upgovt.nic.in](http://www.upgovt.nic.in). but the cost of tender form must accompany with the tender in the shape of Demand Daft in the favour of I.G. of Police (Security)U.P. payable at Lucknow otherwise tender shall be rejected out right.

8- All such firms, which are not registered with DGS & D, New Delhi, NSIC New Delhi, D.I. Kanpur or U.P.S.I.C. Kanpur, are , as a rule, required to deposit earnest money along with their tenders without which their tenders shall be ignored out right and as a rule and no correspondence thereafter shall be entertained. Such firms as are registered with any of the above four organizations mentioned above are exempted from depositing earnest money. For being considered for exemption from earnest money the copy of registration certificate duly attested by a gazetted officer or public notary should be enclosed with the tender.

9- The tenders can be dropped at the sealed box stationed at Security Branch, Lucknow or through post but the tender must be received in the office of the undersigned by the due date and time. The undersigned shall not be responsible for any postal delays and no tender shall be accepted after the designated time.

10- The Chairman of the purchase committee (mentioned as "Chairman" hereinafter) reserves the right to alter the number of equipments to be purchased and cancel any tender in partial or full without assigning any reason to the bidder. The reason of cancellation will be noted down on the file and will be disclosed if required under rules.

11- Tenders can be submitted for the desired equipment with the specifications better than the prescribed one but the selection of such equipment will be done by the committee constituted for this purpose and its decision will be final and binding on all.

12- The firms should submit their tender keeping in view all the terms and conditions. If the tender is not submitted as per the terms and conditions, SPD-3 form and check list given by the department, the authority for cancellation shall be vest in the Chairman.

13- **Tender will be valid up-to one year.**

14- After receiving the supply order, the equipments should be made available to the undersigned by the due date along with the bill in triplicate. The Pre-Delivery inspection of all the equipments will be made at Security Branch by the Technical committee constituted by the Chairman for the purpose. The equipment supplied will be accepted after their O.K. report for the Technical committed constituted for the purpose after P.D.I. If the equipment is not supplied within the stipulated time the firm has to inform the reason of delay in supply failing which fine @ 10% of the quoted price will be imposed for each fortnight. The decision of the Chairman in this regard will be final and binding to all.

15- The payment will be made after the supply of equipments and their accessories. Deduction of Income-tax and VAT as applicable as per rules will be made from the final payment.

16- No accessories will be accepted as Optional. The bidder will have to supply all the accessories with the equipment mentioned in literature of the submitted with the tender and no extra cost will be paid for

the accessories. **Tenderer will also not quote price of accessories as optional in Financial bid otherwise their Financial bid will not be considered.**

17- Any dispute arising in the matter will be considered in the court of Lucknow (U.P.) jurisdiction only.

18- Undersigned is not bound for minimum contract and reserve the right to terminate the contract or any part of the contract. In any case of dispute on this subject the final decision is vested in the Chairman.

19- If the supply of equipment is not ensured within the stipulated time, the supply order shall stand void automatically and equipment will not be accepted thereafter. No correspondence shall be entertained for extension of supply date. In case of equipments not supplied by the due date, the earnest money and security money shall stand forfeited.

20- Tender which are submitted on any form other than the prescribed issued from the office of the undersigned, will be rejected. Tender can be submitted after download from the website but the tender must accompany the cost of tender in form of Demand Draft in favour of **Inspr,Genl. of Police(Security) U.P., Lucknow payable at Lucknow.**

21- Equipments will be accepted in the office of undersigned at Security Branch, Lucknow for which no extra payment as transportation, packaging charged, insurance etc. will be payable.

22- The prices of equipments along with all payable taxes/exchange rate etc. will be mentioned along with the tender submitted. At the time of submission of bills any amount other than the agreed amount mentioned in price bid along with taxes, will not be payable by the department.

23- For imported equipments, the bidder will submit tenders for only such equipment, for which they are the authorized dealer/ distributors. They will be required to submit an authority letter from the foreign manufacturer (Not from the authorized dealer of the company in India), clearly indicating (i) that the bidder is the authorized agent for the supply of such equipment on behalf of the foreign company (ii) that the specific item is manufactured by the foreign manufacturer and (iii) that the said agent is authorized to submit tender on behalf of the foreign manufacturer in India. Any authority letter submitted by the agent on behalf of the foreign manufacturer that he represents such firm, will not be accepted. No document, other than those submitted along-with the tender, will be accepted separately. Tender submitted without satisfying above conditions will be rejected and the earnest money will be forfeited. If the manufacturer himself participating in the tender then he will submit a proprietary certificate that he is the manufacturer of the equipment. OEM has also to submit an authority letter that if bidder/ Authorized agent fails to provide warranty/services after the completion of warranty period of the equipment OEM shall provide warranty/ spare parts of the equipment.

24- If the equipment quoted is a proprietary item, the firm/agent submitting the tender will also give a proprietary certificate.

25- Interest for any delay in payment due to any reason will not be payable.

26- While submitting the tender, it should be clearly specified that supply of consumables for such items, spare parts that may be required, will be guaranteed, The firm/ agent submitting the tender should also specify the after-sales service, which will be provided. Such firm/agent shall also be bound to provide training for the use and repair of such equipment free of cost as and when and where required. After expiry of guarantee period from the date of installation, the company should also indicate the A.M.C. charges for next year with per year rate and after the acceptance of tender, agreement bond has to be filled for responsibility of maintenance under the AMC on the quoted rates. During the maintenance and repair of equipments, the firm will not have any claim (or any amount) to the items/parts replaced with

new items for free of cost, Ownership of parts of the equipments taken out in replacement during AMC/ maintenance, will be the property of the department. In case firm fails to execute AMC or delays in repair of the equipment the Chairman can impose fine and the firm will be liable to pay the fine. It is made clear that if firm does not obey the conditions of AMC and subsequently the security measures are adversely affected, the firm shall be black listed.

27- If the firm fails to supply the equipment after accepting the supply order, the earnest money and security money will be forfeited and the firm will be declared blacklisted and undersigned can initiate legal action as per rules.

28- The firm registered in U.P. should enclose VAT registration . Tenderers who are registered with other states should enclose the C.S.T. certificate and also indicate its registration number in tender form.

29- The firm participating in the tender should have to submit an affidavit on Non Judicial Stamp worth Rs. 10-00 only that they have not been blacklisted by any of the department/unit/organizations in India.

30- After supply of the equipment and during their warranty period their installation at any place/District/ Unit in U.P., if required, will be the responsibility of the supplier and no extra charges shall be paid for the purpose. Warranty period is mentioned in the specification of the equipment .

31- Such firms who are not registered with either of four organizations viz. (i) D.G.S.& D (ii) N.S.I.C. New Delhi (iii) D.I.,U.P. and (iv) U.P.S.I.C. shall be required to deposit advance security @ 10% of the total cost of the equipment in the form of Demand Draft or Bank Guarantee pledged to the **I.G. of Police (Security) U.P.,Lucknow for a period of Warranty** payable at Lucknow and will execute an agreement on a Non Judicial Stamp worth Rs. 100-00. Such firms who are registered with any of above four organizations may be considered for exemption from depositing security money (If application is made) for which Chairman reserves the right to do so but they have also to execute an agreement on Non Judicial Stamp worth Rs. 100-00. The Chairman also reserve the right to reduce/ increase the amount of security money as may be deemed fit. The security deposit shall be retained with the undersigned up-to the period of warranty period. The security deposit, if the chairman deemed fit, can be returned after the successful running of the equipments for a period of one Year.

32. The firm will submit Operating and maintenance Manual preferably in Hindi of each and every equipment being supplied at the time of delivery. Supplier will also impart training free of cost regarding Operation and maintenance of equipment at Security Branch as well as at other places in U.P. as directed by the Security Branch for which no extra cost will be paid.

33 Firm as also to certify that they have qualified Technical team and service centers which are capable to attend complaint within 24 to 72 Hrs. If the firm fails to attend complaint within stipulated time a fine will be imposed on him for which decision of chairman will be final and binding to all.

34. Firm has to submit their experiences for the supply of the equipment being quoted and list of their customers Specially Govt. offices/Units along with the tender.

35. If the total cost of the equipment exceeds to Rs. 10 Lac excluding taxes. The firm have to pay 2% Entry Tax in cash before the supply of the equipments. The amount of Entry Tax will be charged by the firm in the bill submitted for payment.

36. Period of **warranty shall be 03 or 01 year as mentioned in the specification of the equipment concern** and will be counted from the date of installation of the equipment . Tender offers below warranty period shall be rejected.



37. The firm will ensure visit of their engineers every quarter for maintenance of the equipment supplied by the firm during warranty period and a report regarding visit and maintenance will be submitted to the Security Branch.
38. Firm has to quote rates including accessories in their Financial bid as no accessories mentioned in the literature will be accepted as "OPTIONAL" After receiving supply order firm has to supply all the accessories mentioned in the specification/ Literature as "ACCESSORIES".
39. The Bidder has to provide a undertaking at the time of supply of equipment that the equipment being supplied is the same which has been demonstrated and mentioned in the Technical bid. Firm has also also to provide model/serial no., manufacturer name, address along with warranty card. In future if equipment happens to be duplicate firm has to face legal action as per rules.
40. P.D.I. of equipment shall be performed at firm's workshop (if required) but P.D.I. at Security Branch premises at Lucknow will be must which will be the duty of the firm.
41. Rates of AMC will be counted if required to establish lowest bidder in Financial bid.
42. If more than one rates are quoted in Financial bid, the bid shall be rejected.
43. If required, extra terms and conditions could be added to the existing Terms and Conditions which has to be complied by the firm.
44. The bidder who demonstrated their equipment at the time of full tender and have quoted same make and model of the equipment which has already been demonstrated at the time of full tender, subject to their demonstration being successful, need not to demonstrate their equipment again but they have to give in writing that they have quoted same make and model of the equipment in this tender and their earlier demonstration report shall be considered for this tender.
45. After the demonstration of their equipment the firm has to leave their equipment with the Security Branch till the opening of the Financial bid of the equipment. After opening of the Financial bid equipment of the firm who did not succeed in Financial bid shall be returned The equipment of the firm, who succeeds in Financial bid, shall remain in the custody of the Security Branch till the supply and PDI of the ordered equipment.
46. The authority letter from equipment manufacture firm will not be accepted until it is ink signed.
47. After opening of Technical bid, the committee will see the demo of equipment only after receiving a confirmation letter from the original manufacturer company that the "Ink Signed" authority letter submitted by the participating firm in "legit"
48. It will be mandatory for a firm to mention the following points in its counter affidavit:-
  - (a) That their firm was neither black-listed by any government department in the past 5 years, nor their firm was prevented to participate in any tender.
  - (b) That neither any criminal case in running in any court against the firm, nor any case is pending trial with regard to copyright/patent.
  - (c) That there is no blood-relation or family-relation (husband, wife, son, daughter, brother in law, sister in law, father in law, mother in law, cousin etc) among any member of any black-listed firm and the participating firm.
  - (d) If the authority letter is found fake, then the demonstration of the equipment of the tendering firm will not be seen or entertained and action will be taken against the firm as per law.

(e)If the affidavit is found fake or wrong then the tender of the firm shall stand rejected at any stage.

**( Uday Shankar Jaiswal )**  
Dy Inspector General of Police(Security)

S.P.D.(3)

ORIGINAL

TENDER FORM

GOVERNMENT OF UTTAR PRADESH  
SECURITY HEAD QUARTER. U.P., LUCKNOW

No. Suraksha-Adhu.CCTV-285/2015-16

CONDITIONS OF AGREEMENT

S.N.	Name of the Equipment	Quantity	EMD Required in Rupees	Proposal Form Fee (in Rupees)
1	P.T.Z. Camera with relevant equipments as per tender specification	02	21,500.00	350

Date of Opening of Tender: July 19 , 2016

1. The arrangement is to last till but in the event of any breach of the terms of arrangement at any time on the part of the supplier the arrangement shall be determined summarily by the Chairman, Security Branch, U.P., Lucknow without compensation to the supplier.
2. The supplier will supply goods and materials from time to time in such quantities as may be entered in the indents sent at the rates set forth in the Schedule of rates at page (3).
3. **The goods or materials to be supplied under the arrangements are to be of the quality or sort in every respect equal and answerable to the patterns or sample sent with the tenders and approved by the Security Branch, U.P., Lucknow. In the event of supplies not being up to the sealed sample accepted, but good enough for retention, the goods supplied may either be retained at a reduction in cost not exceeding 10 per cent of the total value or be returned to the supplier in accordance with paragraph 10 below at the option of the Indenting Officer. The goods may only be retained at a reduction if the supplier agrees.**
4. The Security Branch, U.P., Lucknow may, by notice in writing, call upon the supplier to supply additional goods or materials to serve as samples, and upon such notice in writing the supplier shall be bound to supply additional samples of goods or materials, such additional samples being in all respects of same quality or sort as the sample first supplied.
5. (a) All rates are to be based on delivery, securely packed and f.o.r. stations nearest to suppliers or Indenting Officers as asked for in the tender notice.  
(b) Railway freights, if pre-paid, shall be added to the original quotations.  
(c) When goods are ordered f.o.r. the station nearest to supplier, the Indenting Officer may at his option direct that this shall be booked either by goods train or by passenger train and either at owner's risk or at railway risk. The supplier shall carry out his direction and shall, in any case, be responsible for the safe delivery of the goods soundly and securely packed to the Railway Administration and shall obtain from such Railway Administration a clear receipt for the goods in evidence thereof. In the absence of a clear receipt, the suppliers will be held responsible for all damages or loss caused by breakage or leakage which may occur to the goods while in transit and until they have been delivered to the consignee at railway station of destination.  
(d) When goods are ordered f.o.r. station of destination, the suppliers shall be required to bear all risks of loss, leakage or damage, and shall deliver the goods in good order to the consignee at railway station of destination, mentioned in the indent , in such quantities or number and with in such time and in such manner as the Indenting Officer shall, from time to time, direct.
6. Unless when specially ordered in the order accompanying the indent, all goods must be dispatched within 14 days of the receipt of indent by the supplier.
7. With every dispatch of goods or materials under the arrangement invoices or bills of parcels in duplicate are to be sent by the supplier to the Indenting Officer, the duplicate to be returned by the Indenting Officer with the quantities or number received dully noted thereon.
8. Conditions as to time for performance whether laid down herein or in the indent, shall be always regarded as the essence of the arrangement.

9. The I.G.(SECURITY), Security Branch, U.P., Lucknow or any of the experts attached to the security Department or the Indenting Officer or any other officer or person duly authorized in writing by the Chairman Security Branch, U.P., Lucknow, shall have power to inspect the stores before, during and after manufacture, collection, dispatch, transit or arrival and to reject the same or any part or portion, if he or they be not satisfied that the same is equal or according to the sample or specification in weights, quantity and number.

10. Goods or materials rejected or refused on the ground of inferior quality or any other ground shall be removed by the supplier at his own risk and expense within ten days after notice has been received by him of such rejection. In the event of non-removal by the supplier as aforesaid within the said period of ten days, it shall be lawful for the Security Branch, U.P., Lucknow to authorize the Indenting Officer to sell by public auction any rejected materials or goods and in such cases the supplier shall be credited with the sale proceeds thereof but will not be entitled to any loss of damage that may be occasioned by such sale. If the contractor is not satisfied with the decision of the authority rejecting or refusing goods, he may appeal to the Security Branch, U.P., Lucknow within five days of the receipt of such notice, and the decision of the Chairman, Security Branch, U.P., Lucknow will be final in all cases.

11. The system of payment shall be as follows :

- ❖ Bill in triplicate shall be sent by the supplier to the Indenting Officer and on receipt of these, the Indenting Officer or his superior officer shall make payment direct. The suppliers may, however, for their own convenience send an advance intimation for the amount of the bill to the Indenting Officer but no advance payment shall be made.
- ❖ Payment shall ordinarily be made within one month of delivery. All payment shall be subject to the deduction of any amount to which the supplier may be or render himself liable under the terms of this arrangement.

12. Packing cases, containers, gunny packages, etc. which may be used for purposes of packing and which are delivered with stores will be not returned or paid for, unless specially stipulated.

13. The contractor shall not sub-let or assign this contract without the written permission of the Security Branch, U.P., Lucknow. In the event of the contractor sub-letting or assigning this contract without such permission he shall be considered as having thereby committed a breach of this contract.

14. In the event of the suppliers not being in strict accordance with these conditions or not being delivered within the time allowed, the Security Branch, U.P., Lucknow may recover from the contractor as liquidated damages and not by way of penalty the sum of one percent of the value of the said goods or materials for each and every day up to 25 days during which the articles to be supplied are not delivered or bad articles are not replaced. Further, it shall be lawful for the Security Branch, U.P., Lucknow or the Indenting Officer to purchase the required articles or any suitable quality obtainable in the open market at the risk and cost of the contractor, who in addition to the liquidated damages aforesaid shall be liable for any loss or damages caused by the said purchase. The Security Branch, U.P., Lucknow shall alone be entitled to adjudge upon the penalty or compensation or damages due for delay in performance, as also to adjudge upon the advisability of taking other suitable action. If the delay shall have arisen from any cause which the Security Branch, U.P., Lucknow may declare in writing to be a reasonable, such additional time may be allowed as may be considered necessary in the circumstances of the case. In such a case he may also forego the whole or any part of the aforesaid liquidated damages but not the other loss or losses.

15. In case of non-performance in any form or shape of the conditions of this arrangement the Chairman Security Branch, U.P., Lucknow shall have power to annul, rescind or cancel the arrangement and upon his notifying in writing to the supplier that he has so done, this arrangement shall absolutely determine. He may also debar the firm for the Uttar Pradesh police Department contracts for such periods as he thinks fit.

16. In the event of any dispute arising out of or concerning this Agreement (except as to any matters the decision of which is specifically provided for this Agreement), the same shall be referred to the arbitration of an arbitrator nominated by the Security Branch, U.P., Lucknow and an arbitrator nominated by the contractor, or in the case of the contractor or the said Security Branch, U.P., Lucknow failing to nominate an arbitrator within the time fixed in the notice to be served on him by the said Security Branch, U.P., Lucknow or the contractor, as the case may be, by the arbitrator, nominated by the said Security Branch, U.P., Lucknow and the contractor or in case of disagreement

between the said arbitrators to an umpire appointed by them and the decision of such arbitrators or arbitrator or umpire, as the case may be, shall be final and binding on the parties. The arbitrators/arbitrator/umpire may from time to time with the consent of the parties enlarge the time for making and publishing the award.

17. Without prejudice to any other remedy provided by law any amount due from the supplier to the Governor will be recoverable as arrears of land revenue and may also be recovered by deduction from any amount due from the Governor to the supplier on any account under any other transaction.

18. The suppliers will send to the Deputy Director of Industries (Stores), Uttar Pradesh Kanpur, quarterly statement of goods they supply under this arrangement in the following form ;

Supplies during the quarter ending 200 :

Name of officer	Indent no. and date	Name of article	Quantity or number supplier	Value of applies	Remarks (whether Indian make or foreign)
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QUOTATION

1. I/We hereby quote to supply the goods and materials in the under writing Schedule in the manner in which and within the time specified, as set forth in the conditions of arrangement stated above at the rates given in the Schedule below. I/We hereby agree that in the event of tender being accepted the conditions of Para as 1 to 18, on pages 1 to 4 and those contained in the acceptance letter will be binding upon me/us and will, along with the quotation, be converted into and shall be deemed to be a completed agreement between me/us and the Governor of Uttar Pradesh from the date of issue of acceptance letter. I/We hereby further agree that if so required by the Security Branch, U.P., Lucknow. I/We shall execute a formal Agreement Deed.

2. I/We here with deposit a sum of Rs. as earnest money and should I/We fail to execute a fresh deed of agreement if so required, by the Security Branch, U.P., Lucknow on behalf of the Governor of Uttar Pradesh and deposit the security as laid down in the tender notice within ten days of the acceptance of my/our tender. I/We hereby agree that, a part from my/ our liability under the agreement, the above sum of earnest money will be forfeited to the Governor:

SCHEDULE OF RATES

S. No.	Item with specification	Unit	Rates per unit	Taxes		Total	Make and Brand
				Sales tax	Excise duty		
1	2	3	4	5	6	7	8

All rates are f.o.r.....

Dated the  
Signature  
Address

Day of 2016

Name of supplying firm

N.B.—Please do not forget to fill in all the above columns.

Accepted .....  
Signed .....  
Designation .....

For and on behalf of the Governor of Uttar Pradesh

## **A. Technical Specification of High Speed HD IP Out Door PTZ Color Auto Dome Day/Night Camera –**

<b><u>General Specifications:- High Speed HD IP Speed Dome Camera with 20X optical zoom (Day/Night):</u></b>
a. The Camera should have the following feature:
o 20x optical zoom and 12x digital zoom total up to 240x zoom
o Full HD (1920 x 1080p), 25fps
o Wide Dynamic Range Capability upto 86db.
o Weatherproof with IP66 rated enclosure, heater and fan built in
o High speed of pan up to 300°/sec and tilt up to 300°/sec
o Minimum 256 Preset Positions & 5 Tours
o High speed preset at 300 °/sec with high accuracy with +/-0.045°
o Built-in web browser for easy configuration
o Shall support dynamic noise reduction.
o Shall Support MPEG-4, H.264, JPEG
<ul style="list-style-type: none"><li>• ONVIF Compliant</li><li>• The camera shall have an Adaptive Rate Control (ARC) function when using MPEG-4 and H.264 compression. This function when enabled, shall allow the camera to maintain the frame rate at a reduced image quality when network congestion occurs. Should network bandwidth become further restricted, the frame rate shall then drop automatically to a suitable speed to maintain image integrity.</li><li>• The camera shall be capable of image cropping in all codecs, such that only the area of interest is transmitted, to reduce bandwidth and file storage requirements.</li><li>• The camera shall support a letter box function. When the letter box function is enabled and resolutions except 16:9 aspect ratio are chosen, the displayed image will have mattes (black bars) on the top and bottom of the image and will not be stretched vertically.</li><li>• The camera shall be capable of deterring brute force attacks. The camera shall recognize a brute force attack and refuse HTTP requests from an attacker's IP address for a preconfigured number of seconds. The camera shall determine that a brute force attack occurred when a client authentication error occurs five consecutive times.</li><li>• The camera shall have privacy zone masking which blocks out unwanted or prohibited area within the video image to protect privacy. Mask colors shall be Black, any of 6 shades of Gray, White, Green, Yellow, Red, Cyan, Magenta, and Blue. The camera shall be capable of masking up to 8 areas. Such capability shall be via vendor supplied utility software or the browser-based setup menu.</li><li>• The camera shall support IP Filtering, whereby access to the camera can be restricted to one or more groups of selected users. Up to 10 different groups can be established by defining an IP address range for each group.</li><li>• The camera shall be capable of limiting the bandwidth from 64 kbps to 8 Mbps in MPEG-4 or H.264, and from 0.5 Mbps to an unlimited bandwidth in JPEG.</li><li>• The camera shall be capable of pre- and post-alarm buffering.</li><li>• The camera shall also have an 'Edge Storage' function that operates as follows:</li></ul>

- i. Capable of storing up to pre-alarm and post-alarm images and audio on a SD/SDHC memory card.
  - ii. Record in the codec format selected for monitoring.
  - iii. Recording to this storage area can be done manually or when an alarm is triggered.
  - iv. The trigger can be based on sensor input or network disconnection, or a combination of those alarms using Boolean operands such as a logical 'AND', 'OR', or 'THEN'.
  - v. Capable of streaming the recorded data using the same protocols as live streaming such as RTP/HTTP/TCP/IP or RTP/RTSP (IPv4), so that the user can view recorded image while recording.
  - vi. Capable of simultaneously streaming live video with recorded video by using different sessions.
  - vii. Capable of downloading the recorded video at a variety of speed rates such as 0.5x and 2x speed.
- The camera shall have an AGC capability up to 28 dB.
  - White balance shall be selected among Auto, Indoor, Outdoor, One push WB, Sodium Vapour lamp, or Manual.

Sr.	Parameter	Technical Specification
<b>CAMERA PARAMETER</b>		
1	Image Device	1/3" or 1/4" -type Exmor CMOS
2	Minimum Illumination	Color: 1.2lx (F1.6, shutter 1/30sec, AGC ON, 30IRE[IP]) B/W: 0.18lx (F1.6, shutter 1/30sec, AGC ON, Night Mode, 30IRE[IP])
3	No. Of effective pixels	Approx. 3.27 mega pixels
4	Electronic Shutter	1~1/10,000 Sec
5	Auto Gain Control	Auto/Mannual
6	Exposure control	Auto, Full auto, Shutter-priority, Iris-priority, Manual, EV compensation, Backlight compensation
7	White balance mode	Auto, Indoor, Outdoor, One-push WB, ATW, Manual
8	Lens Type	Auto focus zoom lens
9	Zoom Ratio	20X Optica, 12X digital
10	Horizontal Viewing angle	55.4 to 2.9 degrees
11	Focal Length	f=4.7 to 94 mm
12	F Number	F1.6 to F3.5
13	Minimum object distance	10mm (wide) to 800mm (tele)

14	Pan angle	360 degrees endless rotation (No Elec/Mechanical Flipping)
15	Pan speed	300 degrees/s (max.)
16	Tilt angle	210 degrees (with e-flip)
17	Tilt speed	300 degrees/s (max.)
18	Preset	256
19	Tour	5
20	Day/Night	Yes
21	Wide Dynamic	Yes (86 db)
22	Digital Noise Reduction	Yes
23	Codec Image Size	1920×1080, 1680×1056, 1280×1024, 1440×912, 1280×960, 1376×768, 1280×800, 1280×720, 1024×768, 1024×576, 800×600, 800×480, 768×576, 720×576, 704×576, 720×480, 640×480, 640×368, 384×288, 320×240, 320×192
24	Video Compression format	H.264, MPEG-4, JPEG
25	Maximum Frame Rate	30 fps (H.264) / 20 fps (MPEG-4) / 16 fps (JPEG)
26	Audio Compression	G.711/G.726
27	Intelligent Motion Detection	Yes, On board analytics.
28	Voice alert	Required. Shall support the Voice alert function, which can automatically play an audio file stored on the camera by an alarm trigger using motion detection
29	Camera tampering	Required
30	Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
31	S/N ration	More than 50 db
32	Codec Streaming Capability	Dual
33	Ethernet	10BASE-T/100BASE-TX (RJ-45)
34	Local storage	SD/SDHC card
35	Sensor input	2
36	Alarm output	1
37	No. Of clients	5
38	External Micro phone Input	Mini-jack



39	Audio line put	Mini-jack
40	Operating temperature	-5 to 50 degree
41	Operating humidity	20 to 80%
42	Safety regulatory	UL, EN
43	Power Requirement	hPoE, 24V AC
44	Service Manual & Operating Manual etc.	Required

## **B. Technical Specification of High Resolution Heavy Duty min. 32 inches LED Colored Monitor**

Sl.	Parameter	Specification
1	LCD/LED Size	Minimum 32" or large LCD/LED Monitor suitable for 24x7 operation
2	TV System	PAL
3	Resolution(HxV)	≥1920X1080
4	Color System	PAL
5	On Screen Display(OSD) Language	English/Hindi
6	VGA Port	RS-232 & RS-485
7	Video input Port	At least 02 inputs
8	Audio input	At least one port
9	Power Supply	220 V ±10% : 50 Hz
10	Input Impedance	75(ohm)
11	Response time	5ms or better
12	Viewing Angle (H/V)	(160 deg/ 160 deg )or better
13	Luminance/Brightness	250 cd/m <sup>2</sup> or better
14	Display colours	16.7 million or better
15	Operating temperature	0 deg C to 40 deg C or better
16	Operating Humidity	80% Non Condensing or better
17	Other Functions	Noise Reduction, Freeze, Under scan etc.
18	Approval	UL, FCC and CE (Certificate to be attached)
<b>Auxiliary Item</b>		
1	Service Manual & Operating Manual etc.	Required
2	Mount	Wall mounting brackets and Desk top (Table stand).
3	Redundant Off Line UPS of suitable rating to provide at least 30 minutes power back up to run up to one LCD/LED monitors & one NVR with Joy stick & Key board.	1. Input Voltage = 160V to 280V, 50Hz 2. Output Voltage = 220V±10V, 50Hz 3. It should be housed in a rugged enclosure.
4	Monitor Should provide good and stable picture Quality with wide visibility.	

**B. Technical Specification of Stand Alone Real Time Network Video Recorder (NVR) of 04 Channel**

S. No.	Features	Compliances (Yes/No)	Deviation/Remarks
<b>VIDEO MANAGEMENT SYSTEMS (VMS)/ NETWORK VIDEO RECORDER (NVR) SPECIFICATIONS</b>			
1.	The system shall be open platform with integration with at least 70 IP camera leading brands in the world & ONVIF compatible models. The client OS platform shall be able to run with Microsoft Windows platform, Mobile Android/ Apple app should be available. (list of integrated brands to be submitted)		
2.	The system shall be Windows/ Linux platform. The OS shall be embedded in device without extra installation. The system shall at least support 80mbps throughput for 2 bay model. The NVR shall be 4 ch as per requirement.		
3.	The system shall have ability to display videos and manage the system locally with monitor connected via either HDMI or VGA.		
4.	The system shall be able to support for central management system (CMS), if needed. The CMS shall allow for the continuous monitoring of the operational status and event-triggered alarms from system servers, cameras, POS and other external devices.		
5.	The system shall support adjusting system time with NTP server weekly or monthly.		
6.	The installation tool shall allow user to obtain network settings automatically from external DHCP server or built-in DHCP server, or configure network settings manually.		
7.	User shall be able to configure camera settings such as resolution, frame rate, quality and audio.		
8.	The system shall support monitoring the connection status, recording status, frame rate and bit rate of each camera.		
9.	The system shall provide estimated remaining recording time according to bit rate and hard disk space.		
10.	The system shall support a secondary and lower stream from IP camera if this camera has dual stream. The dual stream solves the limited bandwidth issue in mobile and remote connection.		

11.	The system shall support ONVIF cameras.		
12.	The system shall support panoramic lens and fisheye camera.		
13.	The local display shall provide optional layouts to display the videos – (2bay model) 1x1, 2x2, 3x3, 1+7, model support full screen and auto scan mode. The web browser and remote live view application shall provide layouts including 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8, 1+5, 2+8, 1+12, 1+12(central fixed), 1+16(central fixed), full screen and auto scan mode.		
14.	The system shall support displaying images from several cameras, one after the other, in a single view position. The system shall allow user to define time interval of carousel.		
15.	The system shall support three recording modes– always record, record on motion detection and record on input trigger. Support Multi-Stream for remote live view bandwidth control (Original / 500 kbps / 100 kbps)		
16.	The system shall provide a verification tool to verify if a snapshot or video clip is modified.		
17.	Push notification – send notifications to users on mobile for checking live videos and playback.		
18.	E-map popup – pop up E-map on web/remote Live View.		
19.	The system shall be able to backup recorded video of the previous day to a remote FTP server according to pre-defined schedule.		
20.	The system shall provide backup function to save video and log files in its playback application. User may use backup files on any other PC with windows operation system and operate the full function with playback application.		
21.	The remote backup system shall allow user to new (add), remove interested periods of recorded video. The system shall support a graphic time navigation user-interface for user to select an interested period.		
22.	The system shall allow user to access the hard disk on unit by FTP transmission and backup the recorded video manually.		
23.	<b>Intelligent search</b>		

24.	The remote playback system shall support intelligent search tool (post-video-analytics) – search the camera events (general motion, foreign object, missing object, focus lost, camera occlusion) in regions of interest from recorded video. The tool shall present the searching result by listing all events or showing events frame by frame.		
25.	The remote playback system shall support video enhancement function to filter the visibility, sharpen, brightness, contrast and grey scale on recorded video to give user a better display.		
26.	<b>Central management connection</b>		
27.	The system shall be able to connect and send alarm message to a central management system.		
28.	<b>Verification tool</b>		
29.	The system shall provide a verification tool to verify if a snapshot or video clip is modified.		
30.	The verification tool shall verify below three types of data.		
31.	a. DAT and 264 formats.		
32.	b. AVI and ASF format.		
33.	c. BMP and JPEG format.		
34.	<b>Mobile phone support</b>		
35.	The system shall allow users to view video on iPhone, iPad, Android with mobile client.		
36.	<b>E-map support (remote client only)</b>		
37.	The system shall support multiple E-maps layers.		
38.	The system shall support various image formats for E-map- BMP, JPEG, GIF, PNG, TIFF.		
39.	The system shall allow user to drag the indicators representing the devices (including analog cameras, IP cameras, I/O devices and POS) on to the map, arrange the location of the indicators on map, and rotate the direction of the indicators.		
40.	The indicators that representing the devices shall turn red when motion or digital input event is detected by camera.		
41.	Approval :- UL, FCC and CE (Certificate to be attached)		

42.	(CD/DVD) of all Related System Software, Driver, OS , Service Manual & Operating Manual etc. must be Provided .- Required		
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#### **D. Digital Key Board With Joy Stick**

Digital Keyboard/Data Controller with Multi Channel Joy Stick for P/T/Z Control of camera mentioned at

Sl.No.A and it should be compatible with NVR mentioned at Sl.No C.

Sl.	Parameter	Specification
1	Controls	P/T/Z Camera & DVR (It should be capable to control camera directly and through NVR also)
2	DVR Signal	Keyboard Controller should be compatible with NVR & P/T/Z camera
3	Display	Easy to read
4	Approval	UL, FCC and CE (Certificate to be attached)

#### **E. Single Channel Ethernet over Coax- INDUSTRIAL ETHERNET EXTENDER**

with IEEE 802.3at 30W Pass-Through PoE Mode or Remote PoE Injection Mode, 10/100Mbps, Industrial, Remote Unit, Mini

Sl.	Parameter	Specification
1	Ethernet Extender	500 Mtrs
2	Cable Type	RG 59/ RG11 Coaxial Cable
3	PoE Standard	IEEE 802.3at
4	Bandwidth	100 Mbps
5	Connectors	RJ45 and BNC
6	Operating Temperature	-10 to +65 Deg. C
7	Product Standard	Industrial/ QM 333/ NEMA TS2/ better
8	Certification	UL and CE

#### **F. Single Channel Ethernet over Coax- INDUSTRIAL ETHERNET EXTENDER**

Single Channel Ethernet over Coax with IEEE 802.3at 30W Pass-Through PoE Mode or Local PoE Injection

Mode, 10/100Mbps, Industrial, Local Unit, Mini

Sl.	Parameter	Specification
1	Ethernet Extender	500 Mtrs
2	Cable Type	RG 59/ RG11 Coaxial Cable
3	PoE Standard	IEEE 802.3at
4	Bandwidth	100 Mbps
5	Connectors	RJ45 and BNC
6	Operating Temperature	-10 to +65 Deg. C
7	Product Standard	Industrial/ QM 333/ NEMA TS2/ better
8	Certification	UL and CE

**G. Managed Switch, 8 Port 10/100Tx, 100-240VAC, Commercial Grade**

Sl.	Parameter	Specification
1	Type	Managed
2	Ports	8 x 10/100Tx
3	Protocol	IGMP, SNMP, Multicasting etc for CCTV operation
4	Security	Port & MAC based
5	Operating Temperature	0 to +50 Deg. C
6	Product Standard	Commercial
7	Certification	UL and CE

**Note:-**

*Camera and Digital Key Board With Joy Stick Should be preferably of same & reputed make.*

## **H. Technical Specification of Power Cable**

1. Power cables required for extending power supply to various cameras and other devices.
2. Number of cores : 3 (three)
3. Conductor size : 1.5 Sq mm, Electrolytic Copper Conductor or better
3. Insulated : PVC
4. Thickness of PVC insulation : 0.8 mm or better
6. Approval/Standards : Yes (Certificate to be attached)

## **I. Technical Specification of VIDEO CABLE**

1. No. of Core : 1 Shielded
2. Conductor Size :  $\geq 1$  Sq mm each with singlr wire  
(tinted wire) or better
3. Shielding Material : Al or Better Capable to handle high  
tensile strength
4. Braiding NET :  $\geq 76$  (Wires)
5. Inner Insulation : 2 Wire with PVC Jacket of different  
color
6. Outer Jacket : PVC Black
7. Length of Bundle : 300 meter
8. Approval/Standard : Yes (Certificate to be attached)

## **J. Other Material for Installation**

- BNC Connector (Usable with cable RG-11), Should be Teflon Insulated, Straight plug type having Captive Contact)
- RCA Connector
- RJ 45 Connectors

## Tentative BOQ

<b>S.N.</b>	<b>Items</b>	<b>Qty.</b>
1	High Speed HD IP Out Door PTZ Color Auto Dome Day/Night Camera	02
2	High Resolution Heavy Duty 32 inch LED Colored Monitor with mounting facility (wall)	01
3	Stand Alone Real Time Network Video Recorder (NVR) of 04 Channel .	01
4	Digital Key Board With Joy Stick control	01
5	Single Channel Ethernet over Coax- INDUSTRIAL ETHERNET EXTENDER-Remote Unit	02
6	Single Channel Ethernet over Coax- INDUSTRIAL ETHERNET EXTENDER-Local Unit	02
7	Managed Switch, 8 Port 10/100Tx, 100-240VAC, Commercial Grade	01
8	Power Cable (in mtrs.)	600
9	PVC insulated Support cable ( in mtrs.)	300
10	Video Cable RG-11 (in mtrs.)	600
11	Off Line UPS of suitable rating to provide at least 30 minutes power back up to run up to one LED monitors,two cameras & one NVR with Joy stick & Key board	01
12	7 mtr. pole	02
13	BNC Connector	VTS
14	RJ 45 Connector	VTS