



# Pakistan Institute of Development Economics

## Tender Document

### PROCUREMENT OF SURVEILLANCE SYSTEM ETC.



Pakistan Institute Of Development Economics  
Quaid-i-Azam University Campus,  
P.O. Box. 1091, Islamabad,  
44000, Pakistan.

Tel: +92 51 9248051

Fax: +92 51 9248065



# Pakistan Institute of Development Economics

## Mode of Advertisement(s)

As per Rule 12(1&2), this Tender is being placed online at PPRA's website, as well as being advertised in print media.

As per Rule 12(2), this Tender is also placed online at the website of Purchaser. The bidding document carrying all details can be downloaded from website [pide.org.pk](http://pide.org.pk) and from PPRA's website for information only. All prospective bidders are required to collect tender documents from PIDE office by depositing an amount of Rs.500/- cash.

### a) Type of Open Competitive Bidding

As per Rule 38(2) (a), Single Stage - Two Envelope Bidding Procedure shall be followed. The said Procedure is reproduced as follows:

- (i) The bid shall be a single package consisting of two separate envelopes, containing separately the financial and the technical proposals;
- (ii) The envelopes shall be marked as "Financial Proposal" and "Technical Proposal";
- (iii) In the first instance, the "Technical Proposal" shall be opened and the envelope marked as "Financial Proposal" shall be retained unopened in the custody of the procuring agency;
- (iv) The procuring agency shall evaluate the technical proposal in the manner prescribed in advance, without reference to the price and shall reject any proposal which does not conform to the specified requirements;
- (v) During the technical evaluation no amendments in the technical proposal shall be permitted;
- (vi) After the evaluation and approval of the technical proposals, the procuring agency shall open the financial proposals of the technically accepted bids, publically at the time, date and venue announced and communicated to the bidders in advance, within the bid validity period;
- (vii) The financial bids found technically nonresponsive shall be returned un-opened to the respective bidders; and
- (viii) The lowest evaluated bidder shall be awarded the contract.



# Pakistan Institute of Development Economics

## Terms & condition of the Tender

1. The rates should be in round figure (in paisa's are not acceptable) inclusive of Sales Tax.
2. The tenderers shall have to deposit @ Rs.3.5% of the total value of the bid as earnest money in the form of Pay Order/Demand Draft only (Cheques are not acceptable) in favor of Pakistan Institute of Development Economics, Islamabad along with quotation.
3. The quantity of cameras/material can be increased/ decreased.
4. The participating firms will have to provide G.S.T/NTN number, company profile and indicate the completion period of the task.
5. The earnest money will remain with the PIDE till the completion of the supply/job etc. It will be forfeited, if the firm fails to complete the task within specified period and try to supply/install the sub-standard material.
6. The venders must have established shop/ office at Islamabad / Rawalpindi, which will be inspected by the Institute's authorized Officer (if deem necessary).
7. The bids/quotations will be enclosed in separate sealed envelopes and for identification purpose, the WORD "TECHNICAL QUOTATION/PROPOSAL WITH OUT PRICE(along with its brochures) and FINANCIAL QUOTATION/PROPOSAL (PART-II) WITH PRICE shall be written in BLOCK CAPITAL LETTERS on the respective sealed envelopes.
8. Over writing and cutting of any nature in the quotation(s) will not be accepted.
9. The successful vendor will be responsible for complete installation, commissioning, testing and training of cameras, NVR, switches, UPS and LEDs etc.
10. The successful Tenderer/ Contractor shall furnish Performance Security for a sum equivalent to 10% of the contract value:
11. The Institute reserves the right to accept or reject any or all the quotations as per PPRA rules.

## Tender Scope

- PIDE, (hereinafter referred to as "the Purchaser") invites / requests Proposals (hereinafter referred to as "the Tenderers") for supply of Security & Surveillance System (hereinafter referred to as "equipment"). Installation, configuration, Integration on Turnkey, deployment, commissioning, training, testing, after-sale support, of said Goods (hereinafter referred to as "the Services").
- The equipment shall be delivered and deployed in Islamabad PIDE Office as specified by the Purchaser at the time of delivery.



# Pakistan Institute of Development Economics

## **Tender Eligibility/Qualification Criteria**

Eligible Bidder/Tenderer is a Bidder/Tenderer who:

1. Has registered/incorporated company/firm in Pakistan with relevant business experience of last three (3) years as on;
2. Must be registered with Tax Authorities as per prevailing latest tax rules (only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate);
3. Has valid Registration of General Sales Tax (GST) & National Tax Number (NTN);
4. Has submitted bid for all required items and relevant bid security. Non-compliance of the same shall cause rejection of the bid.
5. Must be involved in relevant hardware manufacturing or sales or supply business for last 3 years.
6. Has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan (Submission of undertaking on legal stamp paper is mandatory), failing which will cause rejection of the bid;
7. Must be authorized partner/ distributor of the quoted brand in Pakistan for Security & Surveillance items required in the tender.
8. Have the required relevant qualified personnel and enough strength to fulfill the requirement of assignment.
9. "Eligible" is defined as any country or region that is allowed to do business in Pakistan by the law of Government of Pakistan.
10. Has Experience with Government Sector (Similar nature Projects)

## **Joint Venture/ Consortium**

Joint Venture/ Consortium are not eligible for this tender

## **Examination of the Tender Document**

The Tenderer is expected to examine the Tender Document, including all instructions and terms and conditions.



# Pakistan Institute of Development Economics

## Tender Price

The quoted price shall be:

- in Pak Rupees;
- inclusive of all taxes, duties, levies, insurance, freight, etc.;
- best / final / fixed and valid until completion of all obligations under the Contract i.e. not subject to variation / escalation;
- Including all charges up to the delivery point at PIDE Office.
- If not specifically mentioned in the Tender(s), it shall be presumed that the quoted price is as per the above requirements.
- Where no prices are entered against any item(s), the price of that item shall be deemed be free of charge, and no separate payment shall be made for that item(s).

## Bid Security (Earnest Money)

The Tenderer shall furnish the Bid Security (Earnest Money) as under:

- for a sum equivalent to 3.5% of the Total Tender Price;
- denominated in Pak Rupees;
- As part of financial bid envelope, failing which will cause rejection of bid.
- in the form of Demand Draft / Pay Order / Call Deposit Receipt in favor of Pakistan Institute of Development Economics, Islamabad along with quotation.
- Have a minimum validity period of ninety (90) days from the last date for submission of the Tender or until furnishing of the Performance Security, whichever is later.

## Tender Validity

The Tender shall have a minimum validity period of ninety (90) days from the last date for submission of the Tender. The Purchaser may solicit the Tenderer's consent to an extension of the validity period of the Tender. The request and the response thereto shall be made in writing.

## Opening of the Tender

Tenders (Technical Bids) shall be opened at 1100 hours (11.00 a.m) on the last date of submission of bids i.e. **August 31, 2015**, in the presence of the vendors for which they shall ensure their presence without further invitation, as per provision of Rule-30 of PPRA Rules, 2014. In case the last date of bid submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the bids shall be the next working day.



# Pakistan Institute of Development Economics

## Determination of Responsiveness of the Bid (Tender)

The Purchaser shall determine the substantial responsiveness of the Tender to the Tender Document, prior to the Tender evaluation, on the basis of the contents of the Tender itself without recourse to extrinsic evidence. A substantially responsive Tender is one which:

- Meets the eligibility criteria given herein this tender document/ the Equipment / the Services;
- Meets the Technical Specifications for the Equipment/ the Services;
- Meets the delivery period / point for the Equipment/ the Services;
- Offers fixed price quotations for the Equipment/ the Services;
- Conforms to all terms and conditions of the Tender Document, without material deviation or reservation.

### TECHNICAL EVALUATION CRITERIA

1. Has a registered/incorporated company/firm in Pakistan with relevant business experience of last three (3) years as on;
2. Must be registered with Tax Authorities as per prevailing latest tax rules (only those companies which are validly registered with sales tax and income tax departments and having sound financial strengths can participate);
3. Must be authorized partner/distributor of the quoted brand in Pakistan for Security & Surveillance items required in the tender.
4. Must be involved in relevant business for last 3 years.
5. Has Experience with Government Sector (Similar nature Projects)
6. After Sales Services Commitment.
7. UL Certification/Listed of CCTV Camera.
8. IP66 Certification of Bullet/PTZ Camera.

### Legal (Mandatory)

Description	Points
Must be authorized partner/ distributor of the principal	Mandatory
Compliance of given specifications according to the RFP	Mandatory
Valid Income Tax Registration	Mandatory
Valid General Sales Tax Registration (Status = Active with FBR)	Mandatory



# Pakistan Institute of Development Economics

## FINANCIAL PROPOSAL EVALUATION

1. Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders at the time and venue indicated by the Purchaser accordingly.
2. Bidder(s)/Tenderer(s) or their authorized representatives shall be allowed to take part in the Financial Proposal(s) opening.

## Performance Security

The successful Tenderer/ Contractor shall furnish Performance Security as under:

- within fourteen (14) days of the receipt of the Acceptance Letter from the Institute;
- In the form of a Bank Guarantee/Pay order issued by a scheduled bank operating in Islamabad/ Rawalpindi.
- for a sum equivalent to 10% of the contract value;
- denominated in Pak Rupees;

## General Conditions

### Contract Duration

The Contract duration shall be for the period of one (01) year starting from the date of delivery, installation, deployment & commissioning of all Goods/Equipment/Items till end of warranty period.

### Contract Documents and Information

The Contractor shall not, without the Purchaser prior written consent, make use of the Contract, or any provision thereof, or any document(s), specifications, drawing(s), pattern(s), sample(s) or information furnished by or on behalf of the PIDE in connection therewith, except for purposes of performing the Contract or disclose the same to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

### Contract Language

The Contract and all documents relating to the Contract, exchanged between the Contractor and the Purchaser, shall be in English. The Contractor shall bear all costs of translation to English and all risks of the accuracy of such translation.



# Pakistan Institute of Development Economics

## **Standards**

The Equipment supplied and the Services provided under this Contract shall conform to the authoritative latest industry standards.

## **Execution Schedule**

The Contractor shall deliver Goods/ordered hardware within (8) weeks from the issuance of Acceptance Letter.

## **Packing**

The Contractor shall provide such packing of the Goods as is sufficient to prevent their damage or deterioration during storage / transit to their final destination as indicated in the Contract. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination and withstand, without limitation, rough handling, exposure to extreme temperatures, salt and precipitation at all points in storage / transit. The Contractor shall arrange and pay for the packing of the Goods to the place of destination as specified in the Contract, and the cost thereof shall be included in the Contract Price.

## **Labeling**

The Goods supplied under the Contract, shall be clearly labeled so as to correspond with the delivered documentation, with proper labeling scheme provided by the Client. All networking equipment, cables, connectors, ports, boxes shall be clearly labeled.

## **Operation and Maintenance**

The Contractor shall be responsible for the continuous operational capability and maintenance of the entire system, 24/7, without disruption to either service or performance, during the warranty period.





# Pakistan Institute of Development Economics

## Installation and Implementation

- ✚ The Contractor shall ensure that the implementation design conforms to an open standard by which new services can be added without disruption to existing services.
- ✚ The Contractor shall ensure that the implementation is fault tolerant. This is accomplished by supplying a set of programs and procedures that allow the system recovery or roll back when a fault is detected.
- ✚ The Contractor shall provide a document stating step-by-step procedures for installation and disaster recovery to the Purchaser.
- ✚ The Contractor shall provide all the recent patches and updates for Firmware/Hardware, on a reliable media, with proper labeling, during the installation to the Purchaser.
- ✚ The Contractor shall configure the system for high availability and reliability, of all hardware and software.
- ✚ The Contractor shall submit detailed and complete installation, transition and cutover plan for the new system, installation procedures for the new components specifying equipment checkout, installation constraints, operational cutover, maintenance prior to Client acceptance and if special security and/or access arrangements are required.

## Safety

- ✚ The Contractor shall be responsible for the embedding of safety features in the inherent design of the equipment, for elimination of identified hazards, including but not limited to high voltage, electromagnetic radiation, sharp points and edges, etc., and reduction of associated risk to personnel and equipment.
- ✚ The Contractor shall be responsible for the protection of the power sources, controls, and critical components of the redundant systems and subsystems by shielding or physical separation when possible.



# Pakistan Institute of Development Economics

## Warranty

The Contractor shall warrant to the Purchaser that the Goods/Services supplied by the Contractor, under the Contract are genuine, brand new, non- refurbished, unaltered in any way, of the most recent or current model, imported through proper channel, and incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

The Contractor shall further warrant that the Goods/Services supplied by the Contractor, under the Contract shall have no defect, arising from design, materials, workmanship or

The Contractor shall provide Manufacturer's warranty for minimum two (2) year (hereinafter referred as Warranty Period) for each item after the issue of taking-over Certificate in respect of Goods, the Services and the Works, or any portion thereof, as the case may be, which will include:

The Contractor shall clearly mention Terms and Conditions of service agreements for the Goods supplied after the expiry of initial warranty period. In case of International Warranties, the local authorized dealers shall mention their service and warranty setup, details of qualified engineers, etc.

The Warranty Period shall start from the date of installation / configuration / deployment of the Goods on site.

The Client shall, by written notice served on the Contractor with a copy to the Purchaser, promptly indicate any claim(s) arising under the warranty.

## Payment

The Contractor shall provide all necessary supporting documents along with invoice. The Contractor shall submit an Application for Payment, to the Purchaser. The Application for Payment shall: be accompanied by such invoices, receipts or other documentary evidence as the Purchaser may require; state the amount claimed; and set forth in detail, in the order of the Price Schedule, particulars of the Goods/Services delivered, up to the date of the Application for Payment and subsequent to the period covered by the last preceding Payment, if any.

The Purchaser shall pay the amount verified within thirty (30) days. Payment shall not be made in advance and against partial deliveries. The Purchaser shall make payment for the Goods/Services provided to the Contractor, as per Government policy, in Pak Rupees, through treasury cheque after completion of the task.

All payments shall be subject to any and all taxes, duties and levies applicable under the laws of Pakistan for the whole period starting from issuance of Letter of Acceptance (LOA) till termination of the signed contract in this regard.



# Pakistan Institute of Development Economics

## Price

The Contractor shall not charge prices for the Goods supplied, the Services provided and for other obligations discharged, under the Contract, varying from the prices quoted by the Contractor in the Price Schedule.

## Force Majeure

For the purpose of this contract "Force Majeure" means an event which is beyond the reasonable control of a party and which makes a party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances, and includes, but is not limited to, War, Riots, Storm, Flood or other industrial actions (except where such strikes, lockouts or other industrial are within the power of the party invoking Force Majeure), confiscation or any other action by Government agencies. In all disputes between the parties as to matters arising pursuant to this Contract, the dispute be referred for resolution by arbitration under the Pakistan Arbitration Act, 1940, as amended, by one or more arbitrators selected in accordance with said Law. The place for arbitration shall be Lahore, Pakistan. The award shall be final and binding on the parties.

The Contractor shall not be liable for liquidated damages, forfeiture of its Performance Security, blacklisting for future tenders, termination for default, if and to the extent his failure / delay in performance /discharge of obligations under the Contract is the result of an event of Force Majeure.

If a Force Majeure situation arises, The Contractor shall, by written notice served on The Purchaser, indicate such condition and the cause thereof. Unless otherwise directed by The Purchaser in writing, The Contractor shall continue to perform under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or Agents or Employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of the conclusion of this Contract and (B) avoid or overcome in the carrying out of its obligations here under.

Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

## Taxes and Duties

The Contractor shall be entirely responsible for all taxes, duties and other such levies imposed make inquiries on income tax / sales tax to the concerned authorities of Income Tax and Sales Tax Department, Government of Pakistan.



# Pakistan Institute of Development Economics

## **Contract Cost**

The Contractor shall bear all costs / expenses associated with the preparation of the Contract and the Purchaser shall in no case be responsible / liable for those costs / expenses. The successful bidder shall provide legal stamp papers of relevant value according to Govt: rules and regulations for signing of the formal contract.

## **Training**

The Contractor shall arrange and undertake a comprehensive training program for the staff nominated by the Purchaser / the Client to ensure that they shall acquire a good working knowledge of the operation, and general maintenance of the Goods / Services to be supplied under the Contract.



# Pakistan Institute of Development Economics

## TECHNICAL SPECIFICATIONS

### First Part (Civil work)

Category	Work Description	Unit	Qty	Remarks
Civil Work	supply and Installation of MS Gates 3' x 6'	No's	5	with Frame, Paint, Lock, Hinges, Handle etc. (complete in all respect/accessories)
	supply and Installation of MS Gates 4' x 7'	No's	1	with Frame, Paint, Lock, Hinges, Handel etc. (complete in all respect/accessories)
	supply & Installation of MS Stairs	No's	2	With Paint and complete in all respect
	supply & Installation of Razor Wire 18 Gauge /KG	KG	350 approxi	
	supply & Installation of Barber & Plain Wire	RFT	700 approxi	
	Fire Extinguisher BCF or equivalent brands (6Kg)	No's	15	
	Iron Angel supply and installation (2.5F)	No's	50	
	Supply & Installation of Safety Grill 3' X 3'	No's	8	With Paint (complete in all respect)
	Supply & Installation of Safety Grill 5.5' X 5'	No's	43	With Paint (complete in all respect)
	Supply & Installation of Safety Grill 6.5 X 5.5	No's	3	With Paint(complete in all respect)
	Supply & Installation of Safety Grill 4' X 4'	No's	4	With Paint(complete in all respect)
	Security Cabin (Fiber Glass) 4' X 5'X 7'	No's	1	Complete in all respect
	Renovation of Control room (9' X 9')	Job	1	
Demolition & Repairing	Job	1		



# Pakistan Institute of Development Economics

## TECHNICAL SPECIFICATIONS

### Second Part (Security & Surveillance Solution)

Item Description	Unit	Qty	Country Of Origin	Specifications/ Remarks
Supply & Installation of Fixed Camera Dome (2MP)	No's	14	USA, European or equivalent	<ul style="list-style-type: none"> <li>• <b>2-Years replacement Warranty</b></li> <li>• <b>UL Listed (European Standard Certification)</b></li> <li>• Max 25/30fps@1080P</li> <li>• IR Range up to 30m</li> <li>• IP66 Certified,</li> <li>• 1/2.7" 2MP PS CMOS Image Sensor,</li> <li>• H.264 and MJPEG dual-stream encoding, Day/Night(ICR), Auto Iris, 2DNR, AWB, AGC, BLC,</li> <li>• 3.6mm fixed lens (6mm optional), <b>IP66 Certified</b>,</li> <li>• PoE,</li> <li>• Mobile Software Supported,</li> <li>• CMS Software Supported, Protocols Supported"</li> <li>2MP Progressive scan CMOS Color: 0.1Lux/F1.6,0Lux(Iron)</li> </ul>
Supply & Installation of Fixed Camera Bullet (2MP)	No's	8	USA, European or equivalent	<ul style="list-style-type: none"> <li>• <b>2-Years replacement Warranty</b></li> <li>• <b>UL Listed (European Standard Certification)</b></li> <li>• Max 25/30fps@1080P</li> <li>• IR Range up to 30m</li> <li>• IP66 Certified,</li> <li>• 1/2.7" 2MP PS CMOS Image Sensor,</li> <li>• H.264 and MJPEG dual-stream encoding, Day/Night(ICR), Auto Iris, 2DNR, AWB, AGC, BLC,</li> <li>• 3.6mm fixed lens (6mm optional), <b>IP66 Certified</b>,</li> <li>• PoE,</li> <li>• Mobile Software Supported,</li> <li>• CMS Software Supported, Protocols Supported"</li> <li>2MP Progressive scan CMOS Color: 0.1Lux/F1.6,0Lux(Iron)</li> </ul>
PTZ Speed Dome (2MP)	No's	1	USA, European or equivalent	<ul style="list-style-type: none"> <li>• <b>2-Years replacement Warranty,</b></li> <li>• <b>UL Listed (European Standard Certification),</b></li> <li>• SD Card Supported,</li> <li>• Up to 255 presets, 8 Tours, 5 Patterns, 5 Auto Scan.</li> <li>• 1/2.8" CMOS Image sensor,</li> <li>• Powerful 20x Optical and 16x Digital zoom . DWDR, Day/Night(ICR), Ultra DNR,</li> <li>• Max 2407s pan speed, 360° endless pan rotation</li> <li>• IR Range of 100 Mtr.,</li> <li>• Built-in 2/1 alarm in/out, IP66,</li> <li>• Mobile Software: CMS Software Supported</li> <li>• Minimum Illumination Focal Color: 0.05Lux@F1.4, B/W: 0.005Lux@F1.4,</li> <li>• Focus Length, 4.7mm~94mm and Control Auto/Manual</li> </ul>
Supply & Installation of NVR 16 Channel	No's	2	USA, European or equivalent	<ul style="list-style-type: none"> <li>• <b>2-Years replacement Warranty</b></li> <li>• Full HD Resolution Preview/ Playback</li> <li>• Hard Disk Supported up to 8TB</li> <li>• 16 Ch. with 1080p Real-time Live View</li> <li>• H.264/MJPEG dual codec decoding</li> <li>• Support 2 SATA HDDs of 4TB each, 2 USB2.0</li> <li>• HDMI / VGA simultaneous video output</li> <li>• Support Multi-brand network cameras</li> <li>• ONVIF Version 2.3 conformance</li> <li>• Mobile Software, CM Software Supported, Protocols Supported.</li> </ul>



# Pakistan Institute of Development Economics

Supply & Installation of NVR 4 Channel	No's	1	USA, European or equivalent	<ul style="list-style-type: none"> <li>• <b>2-Years replacement Warranty</b></li> <li>• 4 Ch. with 1080p Real-time Live View</li> <li>• H.264/MJPEG dual codec decoding</li> <li>• Up to 5Mp resolution preview playback</li> <li>• 100/1000 Mbps incoming bandwidth</li> <li>• Support 2 SATA HDDs of 4TB each, 2 USB2.0</li> <li>• HDMI / VGA simultaneous video output</li> <li>• Support Multi-brand network cameras</li> <li>• ONVIF Version 2.3 conformance</li> <li>• Mobile Software, CMS Software Supported, Protocols supported or equivalent</li> </ul>
NVR Surveillance Hard Disk 4TB	No's	4		Seagate or equivalent
NVR Surveillance Hard Disk 2TB	No's	1		Seagate or equivalent
Supply & Installation of 3 KVA UPS	No's	2		Pure Sine Wave (APC or equivalent)
Battery For UPS	No's	4		Nerada or Equivalent (170 Ah), Dry Battery
Supply & Installation of LED 40"	No's	4		Sony, LG, Samsung
Supply & Installation of LED 28"	No's	1		Sony, LG, Samsung
Cat 6 Cables with Laying	RFT	3000 (approx.)		3M or equivalent, Including Installation Material (Duct, Channel Pati, PVC Pipe and Etc.)
Power Cables with Laying 23/76	RFT	300 (approx.)		Pakistan Cable or equivalent, Including Installation Material (Duct, Channel Pati, PVC Pipe and Etc.)
Pole (supply and Installation)	No's	1		5F height, for PTZ Camera installation
Pole (supply and Installation)	No's	2		5F height, dia 2 inch
Fixed Camera Installation Bracket	No's	2		
Supply & Installation of Distribution Box	No's	4		Dimensions 8 X 8 X 10 , Including (small Fan, Lock Handel, Power Breaker, Channel Pati)
10 Port POE switch	No's	4		Cisco
Power Cables with Laying 3/29	RFT	1000 (approx.)		Including Installation Material (Duct, Channel Pati, PVC Pipe and Etc.)
Power Supply for Camera	No's	1		10Amp, 12Volt
Supply & Installation of Smoke Detector	No's	25		Operating Voltage 12V, Operating temperature: - 10° C~+50° C, Built-in buzzer
2 Pair Cable Laying for Smoke Detector	RFT	2500 (approx.)		Including Installation Material (Duct, Channel Pati, PVC Pipe and Etc.)
Box	No's	10		5 by 7 Inch
Power Supply for	No's	10		2.5 Amp, 12 Volt



# Pakistan Institute of Development Economics

Smoke Sensor				
Installation Of Smoke Detectors Solution	Job	1		Connectivity with centralized buzzer, Including Material (Relay board Etc.)
Supply & Installation Buzzer	No's	1		12V, Including adaptor
Walkthrough Gate with installation	No's	1	USA, European	Meets IP 55, Detection Zone 33, Operating Temperature "- 10° C to 50°C", Audible tone and volume adjustable. Bright LED visual alarm. Fully automatic 100 to 240 VAC, 50 or 60 Hertz, 45 watts; no rewiring, switching or adjustments needed.
Metal Detector	No's	4	USA, European	Battery 9 V (Rechargeable), Detection Depth Needle / Pin 5cm, Auto Calibration, Normal Operation duration 10Hours, speaker, LED Alert Lights
Desktop	No's	1		HP, Dell, Lenovo Core i7 4 <sup>th</sup> Generation, 8 GB Ram, 1 TB HD, 22" LCD, mouse, keyboard
Laptop		1		HP, Dell, Lenovo 15.4" Anti-Glare screen , Core i7 4 <sup>th</sup> Generation, 8 GB Ram, 1 TB HD, 9 Cell battery
9 U Switch Rack with External Extra Lock	No's	1		