# उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन,अशोक मार्ग, लखनऊ–226001

पत्रांक–टीएस／एमओडी–113／2015–16 (एफएसएल)          दिनांक, जनवरी ।9 2016

सेवा में

निदेशक,
सूचना एवं जन सम्पर्क विभाग,(विज्ञापन प्रभाग),
उत्तर प्रदेश, लखनऊ।

विषय–      आधुनिकीकरण योजना के अन्तर्गत   निम्नलिखित उपकरणों के कयार्थ निविदा आमंत्रित किया
            जाना ।

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महोदय,

            कृपया उपर्युक्त विषयक विज्ञापन की 05 प्रतियॉ अंग्रेजी ／ हिन्दी में मय सी0डी0 के संलग्न कर
इस अनुरोध के साथ प्रषित की जा रही है कि उक्त नोटिस को व्यापक प्रचार–प्रसार वाले प्रमुख दैनिक समाचार
पत्र हिन्दी ／अंग्रेजी जैसे दिल्ली／लखनऊ／मुम्बई से प्रकाशित होने वाले दैनिक जागरण, अमर उजाला,दि
प्वाइनियर ,टाइम्स आफ इन्डिया तथा द न्यू इन्डियन एक्सप्रेस आदि प्रमुख समाचार पत्रों में प्रकाशित करने का
कष्ट करें।

2／      इस सम्बन्ध में निविदा के विज्ञापन की स्वच्छ टंकित प्रति एवं एमएस वर्ड (फारमेट में सी0डी0)
साफ्ट कापी भी वेब साइट पर प्रसारित कराने हेतु संलग्न की जा रही है।

3／      अनुरोध है कि कृपया संलग्न निविदा को प्राथमिकता के आधार पर प्रकाशित कराने का कष्ट
करें।

संलग्नक–विज्ञापन की प्रति 05 प्रतियों में।

2–सी0डी0की साफ्ट कापी।

                                                                भवदीय

                                                              (संजय कुमार)–
                                                    अपर पुलिस अधीक्षक,तकनीकी सेवायें,
                                                   निमित्त–पुलिस महानिरीक्षक,तकनीकी सेवायें,
                                                              लखनऊ।

प्रतिलिपि–पुलिस महानिरीक्षक,प्रो0／बजट,उ0प्र0पुलिस मुख्यालय,इलाहाबाद को सूचनार्थ एवं आवश्यक कार्यवाही
हेतु प्रेषित है।

2–प्रतिलिपि– **पुलिस अधीक्षक／सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्, लखनऊ को विज्ञापित निविदा की
एक प्रति एवं सी0डी0 संलग्न कर इस आशय से प्रेषित है कि उक्त निविदा को उ0प्र0पुलिस की वेबसाइट पर भी
प्रसारित कराने का कष्ट करें। संलग्नक–यथोपरि**

3–प्रतिलिपि–निदेशक,एफएसएल,लखनऊ लखनऊ को सूचनार्थ एवं व्यापक प्रचार–प्रसार एवं आवश्क कार्यवाही
**हेतु।**

4–प्रतिलिपि– नोटिस बोर्ड तकनीकी सेवायें,लखनऊ को चस्पा करने हेतु।

# उत्तर प्रदेश पुलिस तकनीकी सेवायें मुख्यालय,

चतुर्थ तल, जवाहर भवन, अशोक मार्ग, लखनऊ

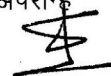संख्या–टीएस–एमओडी–120 / 2015–16(एफएसएल)          दिनांक –जनवरी , 19   2016

## पुनर्निविदा सूचना

1–   उत्तर प्रदेश पुलिस हेतु निम्न उपकरणों की सील बन्द निविदा भारतीय मैन्युफैक्चरर / डीलर / रजिस्टर्ड फर्म / विदेशी मैन्यफैक्चरर के अधिकृत विक्रेता से आमन्त्रित की जाती है।

2–   निविदा प्रपत्र व उपकरण से सम्बन्धित तकनीकी स्पेशीफिकेशन उत्तर प्रदेश पुलिस की बेवसाइट http://uppolice.gov.in से डाउनलोड किया जा सकता है। निविदा शुल्क के रूप में रू0 300.00 का बैंक ड्राफ्ट / बैंकर चेक / एफडीआर  पुलिस अधीक्षक / सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी।

3–   निविदा शुल्क किसी भी दशा में वापस नहीं किया जायेगा तथा निविदा स्वीकृत न होने की दशा में ईएमडी वापस कर दी जायेगी ।

4–   तकनीकी सेवायें मुख्यालय से नगद भुगतान पर टेण्डर डाकुमेन्ट्स विक्रय नहीं किये जॉयगें।

5–   प्रत्येक टेण्डरकर्ता द्वारा टेण्डर की ईएमडीए डीडी / एफडीआर / बैंक गारन्टी के रूप में, जो पुलिस अधीक्षक / सहायक निदेशक, उ0प्र0पुलिस कम्प्यूटर केन्द्र लखनऊ के नाम देय होगा, जमा की जायेगी।

6–   सफल टेण्डरकर्ता द्वारा क्रयादेश मूल्य का 10 प्रतिशत धनराशि सिक्योरिटी मनी के रूप में जमा किया जायेगा,जो उपकरण के सन्तोषजनक ढंग से कार्य करने के उपरान्त उनके वारन्टी अवधि के उपरान्त वापस कर दी जायेगी।

7–   तकनीकी स्पेशीफिकेशन के अनुसार प्रोप्राइटरी आइटम या उनके समतुल्य उत्पाद / सेवा अन्तराष्ट्रीय स्तर के स्वीकार होगें। प्रोप्राइटरी उत्पाद या इसके समतुल्य उत्पाद / सेवा सम्बन्धित तकनीकी समिति का निर्णय अन्तिम निर्णय होगा।

8–   उपकरणों की संख्या विभाग की आवश्यकतानुसार बढायी या घटाई जा सकती है तथा विभाग द्वारा बढायी गयी संख्या को फर्म को निर्धारित अवधि में आपूर्ति करना होगा।

9–   निम्न किसी उपकरण के तकनीकी स्पेशीफिकेशन में यदि कोई संशोधन किया जाता है तो निविदा जमा करने की अन्तिम तिथि के 07 दिवस पूर्व ही संशोधित तकनीकी स्पेशीफिकेशन अपलोड कर दिया जायेगा।

10–   समस्त टैक्स सहित न्यूनतम निविदा एल–1 पर विचारा किया जायेगा।

11–   तकनीकी मुख्यालय द्वारा जनहित में किसी भी समय बिना कारण दर्शाये टेण्डर को निरस्त किया जा सकता है।

| टेन्डर संख्या | आइटम | सं0 | ई0एम0डी0 (रू0 में ) | टेण्डर डाकुमेन्ट् का मूल्य (रू0 में) |
|---|---|---|---|---|
| 1–टीएस–मोड–113 / 15(एफएसएल) | फोरेन्सिक डिजिटल वीडियो लैब | | 2,40,,000–00 | 300.00 |

| | | |
|---|---|---|
| निविदा जमा करने की अन्तिम तिथि | 28..01.2016 | समय 02.00 बजे अपरान्ह |
| तकनीकी भाव पत्र खोले जाने की तिथि | 28.01.2016 | समय 04.00 बजे अपरान्ह |
| तकनीकी भाव पत्र पर क्रय समिति की बैठक | 29.01.2016 | समय 11.30 बजे पूर्वान्ह |
| वित्तीय भाव पत्र खोले जाने की तिथि | 01.02..2016 | समय 11.30 बजे पूर्वान्ह |
| वित्तीय भाव पत्र पर क्रय समिति की बैठक | 01.02..2016 | समय 04.00 बजे अपरान्ह |

(संजय कुमार)
अपर पुलिस अधीक्षक,तकनीकी सेवायें,
निमित्त– पुलिस महानिरीक्षाक,तकनीकी सेवायें,
लखनऊ।

# U. P. POLICE TECHNICAL SERVICES HEADQUARTERS

IVth FLOOR JAWAHAR BHAWAN,ASHOK MARG,LUCKNOW-226 001

TENDER NO.:TS-MOD-113//2015-16(FSL)    DATED :JANUARY.19    2016

## NOTICE INVITING RE-TENDER

1-    Sealed Tenders are invited from the Indian Manufacturers/registered firms/ Authorised agent of foreign manufacturer for purchase of the following equipment for the use of U.P.Police.

2-    The tender form and tender document for item mentioned below along with Technical specification for Item given  may be downloaded from U.P. Police website http://uppolice.gov.in on payment of Rs. 300-00 as fee of Tender cost documents in the form of DD/Banker Cheque/FDR/ in favour of S.P.AD. Uttar Pradesh Police Computer Centre, payable at Lucknow.

3-    Cost of tender document is not refundable, while earnest money(EMD) is refundable after tender process.

4-    Tender documents will not be given on cash through Technical Head Quarter.

5-    Each Tenderer will have to deposit an E.M.D. as mentioned against tender in the form of DD/ Banker's Cheque/FDR. in favour of **S.P./AD. Uttar Pradesh Police Computer Centre,payable at Lucknow.**

6-    Successful tenderers will have to deposit a security money @ 10% of the order value, which will be returnable after expiry of warranty period.

7-    For any specification which amounts to proprietary items its equivalent Product / Services of international quality will also be acceptable. However the decision of Technical Committee regarding Product / Services of International Quality will be final.

8     The Number of equipments may be increased /decreased as per need and the increased quantity will also have to be supplied within time stipulated by the Department.

9-    The lowest bid will be decided on the basis of total  cost (inclusive of all taxes.)

10-   In condition of amendment in any following item's specification.It will be uploaded before 7 days from submitting tender date'

11-   The Technical Head Quarters may  cancel the tender at  anytime without asigning any  reason for the same in the  public interest.

| Tender No. | Item | Qty | EMD (in Rs.) | Cost  of  Tender Document (in Rs.) |
|---|---|---|---|---|
| 1.TS-MOD-113/15 (FSL) | Forensic Digital  Video Lab | 01 | 2,40,000-00 | 300-00 |

last date of deposit of tenders    28-01-2016 upto 02-00pm

Date of opening of Technical Bid    28-01-2016 at 04-00pm

Date of Purchase committee meeting for technical  evaluation    29-01-2016 at 11-30am

Date of opening of financial offer    01-02--2016 at 11-30am

Date of purchase committee meeting for financial evaluation    01-02-2016 at 04-00 pm

(SANJAY KUMAR)

Add. Supdt. Of Police,Technical Services,

For- Inspector Genl. Of Police,Technical Services,
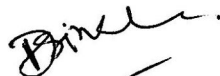
Lucknow.

# Video Analysis System

## Part-1/1-Softwares

### VIDEO FORENSIC TOOL SPECIFICATIONS:-Qty-01 nos

1. Should able to Load, save, process, and analyze single images, sequences of pictures, or videos from a VMS or external source using the same methodology and software.
2. Should able to generate Instant results: add, configure, move, and modify an unlimited number of filters, in real time during video playback.
3. Should able to automatically apply the same filters sequence to different files to avoid resetting all filters for different images from the same source or environment.
4. Should able to apply the filters only to a region of interest of the image, or select frames of interest in a sequence.
5. Should able to quickly seek for events in a long duration video with the integrated motion detection filter.
6. Should able to automatically remove duplicates or mismatched frames.
7. Should able to automatically de-multiplex multi-camera video feeds.
8. Should able to flexibility with technology: choose between classical standard techniques or latest state-of-the-art algorithms.
9. Should able to precise control over images: operate with pixel level precision on selections and measurements on images. Filters should work on the whole image, on a static selection should automatically track a moving target.
10. Should be able to crop quad multiplexed videos.
11. Should able to do document evidence that can automatically generate detailed reports (in .doc, .pdf, or .html formats) so that the investigations process is clearly documented. The report documents scientific methodology and includes all the technical details of the processing and relevant frames and processing steps selected by the user. This is something mandatory for Frye or Daubert states in the United States
12. Should able to view original and processed image or video side by side to easily show the results of your work.
13. Should able to do fast redaction tool to hide sensitive details in the video by blurring, darkening or pixelating selected areas – even while moving.
14. Should highlight sensitive details in the video blurring, darkening or pixelating selected areas.
15. Should able to load image files from the most common formats, such as bitmap, jpeg, tiff, targa, jpeg2000, png.
16. Should able to load video files from almost any digital format, sourced from NTSC, PAL and almost any other system such as mobile phones and internet content; users can decode most video formats by using internal libraries and codecs.
17. Should have complete internal library allows decoding even if your system does not have the required codecs installed.
18. Should choose the video decoding engine to use for every single file. FIVE is the only tool which integrates all video frameworks available on Windows (DirectShow, Video for Windows, QuickTime, FFMS, FFMPEG).
19. Should able to visualize the type of encoding of the current frame (I, P, B).
20. Should have customizable player allows to define personal frame step for faster seeking or to use the mouse wheel as a jog control.
21. Should process a live feed from any DirectShow compatible device.
22. Should video enhance system integrated with VMS systems. For Milestone XProtect users, FIVE allows to process live stream, archived video or exported files in native format without any conversion or quality loss.
23. Should convert proprietary video files to a standard, viewable format.
24. Should unsupported proprietary DVR formats, FIVE integrates a very easy tool that allows to capture the screen without any loss of quality.
25. Should convert a sequence of static images to present and control as if it were video. Transcode video to a different format or transform it into a sequence of images or vice versa.
26. Should have multiple video frames may be selected in either a consecutive or random sequence.

27. Should have FIVE secure to easily check for unauthorized modifications by verifying the file hash-code to maintain strict evidence handling procedures to avoid contamination that could lose a case. You can also verify image EXIF and hash-code data.
28. Should have standard image editing features allow the user to instantaneously apply basic editing functions such as crop, flip, color to grayscale conversions, channel extraction, zoom and image rotation.
29. Should have correct geometric distortions caused by wide angle lenses.
30. Should allows the user to convert images taken from an omnidirectional camera to a panoramic format.
31. Should have correct the perspective in order to see the picture of the scene from a different angle.
32. Should able to resize the image with advanced algorithms, which ensures a higher definition than would be obtained with common interpolation algorithms used in other software.
33. Should able to convert an interlaced video into a progressive one without loss of information.
34. Should able to shift the fields of an interlaced video to better view moving objects.
35. Should able to improve contrast and brightness manually, adjusting intensity curves, or speed workflow with automatic enhancement algorithms.
36. Should able to analyze images with various threshold and edge detection filters.
37. Should able to measure real world distances, heights, and lengths from images or video frames using FIVE's advanced measuring tools. You can also determine camera height as a cross-check of measurement accuracy.
38. Should able to improve image details (unsharp masking, laplacian sharpening).
39. Should able to reduce noise (averaging, Gaussian, median, bilateral, Wiener smoothing filters).
40. Should able to apply custom kernel filters.
41. Should able to reduce compression artifacts with our de-blocking algorithm.
42. Should able to remove interferences or image background (such as banknote watermark) with Fourier filter.
43. Should have correct optical and motion blur resulting from fast movement or out of focus video.
44. Should have correct the blur caused by air turbulence on long range surveillance videos.
45. Should able to remove noise from a video with temporal smoothing and frame integration.
46. Should able to improve shaking video with local or global image stabilization.
47. Should able to correct and modify the camera viewpoint in different frames with perspective alignment.
48. Should able to improve the resolution of the frames with a super resolution algorithm.
49. Should able to improve a video with bad weather conditions (fog, rain, flat light, sandstorm, etc.) and improve backlight images.
50. Should have View 360° dome camera images as panoramic.
51. Should able export all frames as a PDF in one easy step.
52. Software should be installed on a computer

(Dharmendra Singh)
A.P.-,FSL AGRA

(Saurabh Gupta)
SA-FSL-LKO

(M.C.Sharma)
SSA-FSL-LKO

(Shyam Sunder)
SO-FSL-LKO

(Dr. Ram Janam)
JD-FSL-MDD

(Dr. S.B.Upadhyay)
Director-FSL-LKO

## Part-1/2-Softwares:

## Technical Specifications of Stegnography Detection & Analysis software

1  Should detect Steganography Applications and files on computers
2  Should be capable of detecting Steganography files on web pages
3  Easy to use in case management with full suite of tools
4  Should perform Rapid identification of over 500 known steganography programs
5  Should Detect suspicious files through blind anomaly-based approach
6  Should Easily identify image artifacts and image characteristics
7  Should have State-of-the-art image analysis with advanced image filters
8  Should have State-of-the-art audio analyzer
9  Should Crack and extract payloads from carrier files with a simple point and click interface
10  Should make Court ready investigator html reports
11  Should Scan audio files, JPG, BMP, GIF, PNG etc
12  Should allow breaking of passwords with use of password dictionary of supported algorithms
13  Should have Stego Hunting application which should be able to quickly, accurately and easily detect steganography programs as a first look in the investigation process
14  Should have capability to scan forensic images of other popular forensic tools such as E01, ad1, dd, raw, ISO and safeback images
15  Should have Stego Watch Application Once suspected carrier files are found; Stego Watch should automatically scan the entire file system and results should be brought back into a easy to read interface with suspected files flagged
16  Files flagged should be detected with a blind detection technique looking for artifacts within those scanned media files and then displayed with a threat association and notification of any artifacts found

17  Stego Break Application should obtain the pass phrase that has been used on a file found to contain steganography
18  allow examiner to add own dictionary on selected algorithms

(Dharmendra Singh)  (Saurabh Gupta)  (M.C.Sharma)  (Shyam Sunder)  (Dr. Ram Janam)  (Dr. S.B.Upadhyay)
A.P.-,FSL  SA-FSL-LKO  SSA-FSL-LKO  SO-FSL-LKO  JD-FSL-MDD  Director-FSL-LKO

# Part-1/3-Softwares

## Video scanner softwareQty-01 nos

### Technical Specifications

- Supported OS----- Windows XP, Windows Vista, Windows 7 (x86/x64)
- VideoScanner drive capacity--- 16 GB - sufficient for exporting several thousand videos at default settings
- Supported Video Formats---- The internal video engines support all standard video formats (avi, mpg, vob, 3gpp, etc.). The use of system codecs can be manually enabled to support non standard formats.
- Autorecovery mode--- The analysis is automatically restarted after a crash caused by problematic and bug-ridden system codecs or corrupted video files
- Customizable settings-----Input drive / folder,Outputfolder,File formats too look for,Time interval for frame exporting,Recursively scan directories
- Calculate ------------M D5 hash code for every file Use only internal codecs or also system codecs
- Software output---- Full report of all files found (HTML format for universal use),Exported images folder,List of analyzed video files,List of unsupported files (with unknown codecs),List of skipped video files (due to codecs or corrupted video files)
- Report file format--------- Standard HTML
- Report file details----------- For each file the report list file size, resolution, duration, frame rate, codec, full path, MD5 hash code
- Command Line interface------ For advanced users VideoScanner is fully scriptable and customizable using the command line interface

(Dharmendra Singh)   (Saurabh Gupta)  (M.C.Sharma)   (Shyam Sunder)  (Dr. Ram Janam)  (Dr. S.B.Upadhyay)
A.P.-,FSL AGRA      SA-FSL-LKO     SSA-FSL-LKO    SO-FSL-LKO   JD-FSL-MDD   Director-FSL-LKO

## Part-1/4-Softwares

### Image authenticate software:Qty-01 nos

- any standard image format (jpeg, tiff, bmp, png...) and raw format from digital cameras.
- Different analysis filters, with user customizable configuration and optional post processing parameters (levels, scale to enhance the displayed image).
- **Display** multiple image comparison and synchronization.
- **Comparison Support** between two images.
- **Output Image Export Options**
- **Output Data Export Options** Export analysis output as plain text, HTML, or TSV.
- **Cached Processing**
- **Batch Processing** Automatically
- **Batch File Format Analysis** Quick automatic analysis
- **Format Comparison** Quick automatic comparison of the format of all files in a folder with the analyzed image.
- **Batch JPEG Comparison** Quick automatic comparison
- **Excel Integration** Export of multiple file analysis table directly to Microsoft Excel spreadsheets for further processing.
- **Google Images Integration** Search for similar images and images from a certain specific camera on Google Images.
- **Flickr Integration**
- **TinEye Integration** Search for similar images on TinEye.
- **Extraction Of Embedded JPEGs** Extract JPEG images embedded in any file type of questioned document authentication
- **Samples** A rich collection of samples.
- **Visual Inspection** Visual analysis of the image and comparison with a reference image.
- **File Format** Automatic inspection of most common parameters that could indicate non originality of the image.
- **JPEG Structure** Display and comparison of main JPEG markers.
- **Hex Viewer** Integrated hexadecimal viewer with search and comparison capabilities.
- **Hex Strings** Extraction of all textual information embedded into an image file.
- **EXIF** Display and comparison of EXIF information and other embedded metadata.
- **JPEG QT/HT** Display and comparison of JPEG quantization tables and other compression parameters of main image, embedded thumbnail and preview. Internal cameras and software database with thousands of configurations and support for user generated databases.
- **Thumbnail** Display of embedded thumbnail and preview images and their difference with the main image.
- **DCT Plot** Analysis and comparison of the histogram of DCT coefficients and its Fourier transform for detecting multiple resaves of the image.
- **Correlation Plot** Analysis and comparison of correlation periodicities in the image pixels to analyze the presence and consistency of demosaicing or interpolation effects.
- **JPEG Ghosts** Plot of the image with its recompressed version to identify signs of multiple compressions.

- **Histogram** Analysis of the histogram of the image that can help to spot excessive intensity adjustment.
- **Color Space** Analysis of the color space usage of the image in the HSV and Lab coordinates that can help to spot excessive color adjustment.
- **PRNU Identification** Creation of a PRNU (sensor noise) reference pattern from a user supplied set of pictures and identification of the device that generated the image by comparison with the reference pattern.
- **Color Channels** Analysis of single image channels in different color spaces (RGB, YCbCr, YUV, HSV, HLS, XYZ, Lab, Luv, CMYK).
- **ELA** Identification of spliced areas of the image that have been compressed differently (error level analysis).
- **DCT Map** Display of the image DCT values that can help to spot tampered uniform areas of the image.
- **Correlation Map** Identification of discontinuities in the correlation between pixels of the image.
- **Noise Map** Display of inconsistencies in the noise level of the image.
- **PRNU Map** Identification of inconsistencies in the PRNU noise of the image.
- **PRNU Tampering** Automatic identification of tampered areas of the image by comparison with the PRNU reference pattern of the image.
- **LGA** Identification of luminance discontinuities (luminance gradient analysis).
- **Clones Blocks** Identification of similar areas of the image that can be the result of cloning.
- **Clones Keypoints** Identification of groups of similar points in the image that can be the result of cloning.

(Dharmendra Singh)
A.P.-,FSL AGRA

(Saurabh Gupta)
SA-FSL-LKO

(M.C.Sharma)
SSA-FSL-LKO

(Shyam Sunder)
SO-FSL-LKO

(Dr. Ram Janam)
JD-FSL-MDD
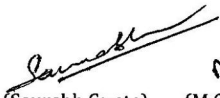
(Dr. S.B.Upadhyay)
Director-FSL-LKO

## Part-1/5-Softwares

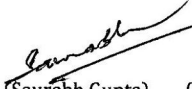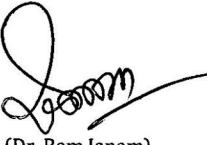### Facial Recognition software Qty----01

1. Facial Capturing form different media and Processing
2. Creation of photo like composites
3. Generation of numeric code for every composite
4. Tone hair colour, side to side hair flip
5. Data Generation of Facial markings: scars, moles, piercing, tattoos
6. Facility for improvement of Time progression
7. Detachable hats and headwear facility
8. Ability to export composite as JPEG file and in other image formats
9. Matching-Side by side show/ comparison capability
10. Improved zooming and positions tools
11. Runs on Window Based computer system
12. Analyze the linear images
13. Full or partial face identification
14. Capable to detect and register the numerous characteristic of each face
15. Capable to store, retrieve and compose the facial features from the database and display matching score

(Dharmendra Singh)
A.P.-,FSL AGRA

(Saurabh Gupta)
SA-FSL-LKO

(M.C.Sharma)
SSA-FSL-LKO

(Shyam Sunder)
SO-FSL-LKO

(Dr. Ram Janam)
JD-FSL-MDD

(Dr. S.B.Upadhyay)
Director-FSL-LKO

## **Part-1/6-Softwares**CDAC product &SOFTWARES-

1. Cyber Chech Suite  (HDD/Storage Device Anslyser)  ---01 nos
2. Mobile Check Suite (Mobile Anslyser)---01 nos
3. Net Force Suite     (E-mail Anslyser)---01 nos
4. Advik            (Cell Daa Recovery)---01 nos
5. SIMXtractor        (SIM Anslyser)---01 nos
6. True Imager        (Data Duplicator)---01 nos
7. Win Lift            (Volatile Data Anslyser)---01 nos
8. Forensic Tool Kit   (HDD/Storage Device Anslyser)---01 nos
9. Oxygen Forensic Suite  (Mobile/SIM Anslyser)---01 nos
10. MobilEdit Enterprises  (Mobile Anslyser)---01 nos
11. MobilEdit Copier  (Phone Data Copier)---01 nos
12. UFFED-(Mobile/SIM Hardware Base Data Anslyser)---01 nos
13. X1 Discovery---------(social media analysis)-----01 nos
14. Clear it---------------(video analysis software )---01 nos


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## Part-(2)Hardware

## Part-2/1(Hardware)Computer work station---Qty---02nos

**Sl no    Technical Specification**
1. Intel i7, Quad Core Processor (2.4 GHz or higher)
2. 16 GB DDR 3 RAM
3. 2 X 256 GB Solid State Drive
4. 1 x 1.0 TB   - Data Drive
5. 32" LCD Monitor x 2
6. At least 4 GB Graphics Supporting Card
7. 4 USB Ports
8. Wireless Keyboard & Mouse
9. 4 Removable Drive Bays
10. Windows 7 Operating System or higher
11. Integrated Hardware Write Blocker for IDE/SATA/SAS/USB/LAPTOP Drives

12. Firewire Card
13. Forensic Multi Card Reader------10 nos
14. Should be provided with toolbox containing Adopters & Cables to image and process Internal /External Drives, screw driver set consisting of bits for opening computer enclosures that may have been locked down.

15. 5 KVA UPS online with 5 Hours backup
16. Minimum 2 years onsite warranty
17. Onsite training to be provided alongwith guide and operating manual
18. Audio  System 5.1 Channel Speaker with Four Step Speaker Hardware capability to Audible very low frequency to high Frequency variation and multi step noise removable filter.
19. Forensic Simcard Reader  -10 nos
20. Headphones-------------05 nos

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## Part-2/2(Hardware) LaserJet Color Printer---Qty--02nos

Black speed : 16 PPM, Color speed : Upto 4 PPM ,Function : Print Only

**Technical specs**

### GENERAL

| | |
|---|---|
| Print technology | 4-pass color laser |
| Duty cycle (monthly, A4) | Up to 15,000 pages |
| Duty cycle (monthly, letter) | Up to 15,000 pages |
| Print colours | Yes |
| Mac compatible | Yes |
| ADF | Yes |
| Scanner/Copier | Yes |

### PRINT

| | |
|---|---|
| Print speed black | Up to 17 ppm |
| Print speed color | Up to 4 ppm |
| Duplex printing | Manual (driver support provided) |
| Paper handling | Automatic |
| Paper trays, maximum | 1 |
| Paper trays, standard | 1 |

### MACHINE DIMENTIONS & WEIGHT

| | |
|---|---|
| Cable included | Yes, 1 USB cable |
| What is in the box | Introductory LaserJet Black, Cyan, Yellow, Magenta print cartridges (pre-installed); Imaging drum; CDs containing software and electronic documentation; Documentation (Install Guide, Support flyer, Warranty guide); power cord; USB cable |
| Warranty | 3 Years |

### Environmental

| | |
|---|---|
| Operating humidity range | 10% to 90% |

(Dharmendra Singh)
A.P.-,FSL AGRA

(Saurabh Gupta)
SA-FSL-LKO

(M.C.Sharma)
SSA-FSL-LKO
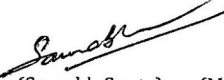
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SO-FSL-LKO

(Dr. Ram Janam)
JD-FSL-MDD

(Dr. S.B.Upadhyay)
Director-FSL-LKO

## Part-2/3Hardware

**Name of Equipment:**PROJECTOR---Qty---02 nos
 **Specifications:**

**Projection System**

- Resolution--------------------------1024x768
  Projection Mode----Mode------ High/Standard/Low

  Power Consumption---------Power in Watts --290W

### System Specifications

- Contrast Ratio--------------------------2 200:1
- Computer Compatibility----------------MAC / PC
- Video Compatibility---------------------HDTV / DTV

### Display

- Throw Ratio-----------------------------1.4 - 1.82:1
- Projection Screen Size (Diagonal)-----30 (76.2 cm) to 300 (762 cm) (measured diagonally)
- Brightness---------------------------------2300 Lumen
- Projection Lens----------------------------Approx. 1.3 times zoom lens, manual
- Lamp Type----------------------------------UHP lamp, 210W

### Dimensions

- Width in mm---------------313.4 mm
- Depth in mm---------------278.3 mm
- weight in Kgs---------------3.2 Kg
- Height in mm-------------129.6 mm
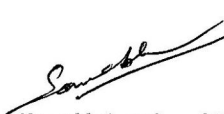
### Power Management

- Power Supply-------------AC 100V to 240V

### Temperature

- Operating Temperature-----------0 degree C to 40 degree C
  Audio--------------1W x 1 (monoaural)
  Ports----------------DVI/USB Port/WiFi/HDMI

<br>

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## Part-2/4(Hardware)Name of Equipment:
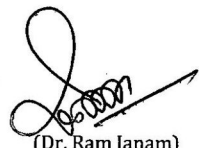## Technical specification-Portable Work station— 10 nos

- **Processor** –2.5GHz dual-core,Intel Core i5 processor (Turbo Boost up to 3.1GHz) with 3MB L3 cache
- **Memory**--4GB of 1600MHz DDR3
- **Storage**-500GB 5400-rpm hard drive
- **Graphics** -Intel HD Graphics 4000
- **Display** –Dual display and video mirroring: up to 2560 by 1600 pixels on an external display, both at millions of colors
- Native Mini DisplayPort output
- Adapter –DVI output using Mini DisplayPort to DVI Adapter  VGA output using Mini DisplayPort to VGA Adapter  Dual-link DVI output using Mini DisplayPort to Dual-Link DVI
- Adapter  HDMI audio and video output using third-party Mini DisplayPort to HDMI Adapter
- Camera-720p FaceTime HD MagSafe power port
- Ethernet –Gigabit Ethernet port
- FireWire– 800 port (up to 800 Mbps)
  - USB –Two USB 3 ports (up to 5 Gbps)
  - Thunderbolt port– (up to 10 Gbps)
- 3.5 mm headphone jack
- card slot --SDXC card slot
- Optical drive-8x SuperDrive
- **Wi-Fi-802.11n Wi-Fi wireless networking;**
- **Bluetooth-Bluetooth 4.0 wireless technology**
- Audio-Stereo speakers with subwoofer Omnidirectional microphone
- Headphone jack –3.5 mm headphone jack
- Support – iPhone headset with microphone Support for audio line out (digital/analog)
- keyboard –Full-size backlit keyboard Multi-Touch trackpad for precise cursor control; supports inertial scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities
- Power backup-Up to 7 hours
- Built-in 63.5-watt-hour lithium-polymer battery
- Power Adapter –60W MagSafe Power Adapter with cable management system; voltage-: 100V to 240V AC
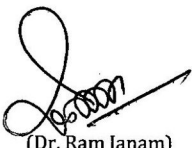- Frequency:- 50Hz to 60Hz
- Relative humidity: -0% to 90% noncondensing

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## Part-3(Infrastructure)
## Part-3/1(Infrastructure)-Video Recording Chamber

    (a) Size-6m(L)*5m(W)*4m(H) suitable wall /roofs /ground fabrication

    (b) Colour LED light Pannel-03 nos (Up,right and left side with front view )

    (c) Each LED Pannel Watt----80 W( Each 20W of White and RGB Colour.)

    (d) Video Camera HD ----01 nos.

    (e) Still Camera HD --01nos

## Part-3/2 (Infrastructure) Name of Equipment :LAB WORK STATION----Qty-02 nos
Specification-

1-TABLE TYPE= 01  (Eight in numbers)

Each table contains

(a)-One side three drawers and other side cup boards with two self,

(b)-Table top –Approx.19 mm Granite black, colour made of with 19 mm board

(c)- Draws made by 19mm board with cup board and with haminate.

(d)- Structure in teak wood frame teak finish

(e)- Mica and teak with colour polishing as required of high standard.

(f)- Size=  6'(L)×2'6"(W)×30"(H)

(g)- Legs space =  3"× 3"

(h)- Wooden one slab between two draws and upon footrest.

(i)- Assembled and pre inspection of material required.

2- Stoolstype= **01** (eight in numbers)

(a)- Stool With 4 Legs with footrest enable of height 65 cm and 45 cm respectively.

(b)- Stools four legged cushioned with foam and round pipe with footrest enamel painting and Black high quality Raxin Cushion

3- Official fixed Chairs-----------08 nos.

    (a)      Having variblehightfrom 45 cm to 65 cm

    (b)      Seat and back good quality supported heavy synthetic covers.

4-Wall Fitted wooden Storages --------06 Racks

    (a)      Wooden base with good quality mica White surfaces with 30 Cms deep.

    (b)      Two part Vertical of each part 50 Cms.

    (c)      Three part Horizontelod size 75 Cms.

    (d)      Sliding Type Doors With Locks.

## Part-3/3(Infrastructure)FinishingSetupe--

**1**-Airconditioning,False Ceiling and Extevsion cables and lighting Ground  and walls Fabrication--------200 Cubic meter  Volume.


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# Note:-

(1) All items of kits should be quoted for branded quality and standard make and model with ISI/ISO or equivalent mark Certification.

(2) All items of hardware should be covered 3 years extensive warranty.

(3) Upgraded version of all Quoted software will be required

(4) Computer hardware/workstation should be branded and not locally make or assembled.

(5) Demonstration or tutorial of any items must be required for all parts/Items.

(6) Validity & Expiry of contents of hardware minimum 3 years.

(7) Tenderer must quote the financial bid for above every Part(Hardware)/Softwares separately, however the purchase committee reserves the right to drop or cancel any item for cost/ budget consideration after deciding L-1 bid.

(8) L-1 bid will be decided on basis of total cost of all kits, not on the individual Part (Hardware) /Softwares cost.

(9) Instrument equivalent of proprietary items.


(Dharmendra Singh)      (Saurabh Gupta)     (M.C.Sharma)     (Shyam Sunder)     (Dr. Ram Janam)      (Dr. S.B.Upadhyay)
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