



बामर लॉरी एण्ड कं. लिमिटेड  
(भारत सरकार का एक प्रतिष्ठान)  
**Balmer Lawrie & Co. Ltd.**  
(A Government of India Enterprise)  
www.balmerlawrie.com

Survey No. 201/1, Sayali, Silvassa PIN 396230. Phone 0260-6993940, 6993945,  
E-mail – kadam.s@balmerlawrie.com, Mob.- 9558818876

### TENDER ENQUIRY

Tender No. : GLS/TE17/093  
Date:- : 05/10/17  
Due Date : 24/10/17 till 5.00 PM

M/s.

Dear Sirs,

**Subject : Online [Two Part] Bids are invited for the supply, installation & commissioning of IP based CCTV Surveillance System at Greases & Lubricants Division , Silvassa**

Balmer Lawrie & Co. Ltd. is a leading manufacturer of greases and lubricants in India. The Company intends to procure and install/commission the " IP based CCTV Surveillance System ". Online bids [e-mail /sealed price bids/ fax offers are not acceptable] are invited from the competent and experienced Manufacturers / Authorized dealer with sound infrastructure, technical and financial capabilities.

The interested bidders may go through the enclosed "Background/Scope & Eligibility Criteria including General Terms and Conditions" (Annexure "A"), BOQ for CCTV System including Technical Specifications (Annexure "B") before quoting the rates. The rates are to be quoted only online as per format given on our website. Your Un-Price Bid/Technical offer, complete in all respects should be submitted online as well as hard copy of the same (Un-Price Bid/Technical offer) should reach us in sealed envelope clearly mentioning the tender reference no. on the envelop on or before the due date at the address given below.

**Balmer Lawrie & Co. Ltd.,  
Grease & Lubricant Division,  
Survey No. 201/1, Sayali-Rakholi Road  
P.O.- Sayli , SILVASSA – 396230.**

**Price/Rate has to be uploaded online only. Tender/offer of the Vendors who send the price bid along with technical bid or through email would be rejected directly.**

The bidder shall submit interest-free EMD of Rs. 25,000/- (Rupees Twenty Five Thousand Only) by Pay Order/D.D. drawn in favour of "Balmer Lawrie & Co Ltd" payable at Silvassa or Vapi with the un-priced bid. The Un-priced bid without EMD shall not be considered for evaluation. The EMD of successful bidder(s) shall be retained till submission of SD which will be 5% of Basic Order Value. EMD of unsuccessful bidders will be refunded within a month of finalization of order under this tender.

MSME/SSI are exempted from EMD provided they submit valid certificate along with un-priced bid.



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**Annexure - A**

## **1. Background, Scope and Eligibility Criteria**

Balmer Lawrie intends to provide a IP based CCTV surveillance system with video analytic facility for monitoring the movements of vehicles and personnel transiting through the plant of BALMER LAWRIE, at Sayali in Silvassa ( D&NH ) ensuring security against theft, pilferage, mishandling, interference and tampering apart from ensuring safety.

**Following documents are required along with Pre-Qualification Bid:**

- A. A forwarding letter enlisting documents/statements submitted as part of Pre - Qualification Bid.
- B. Crossed demand draft of ₹ 25,000 ( Rupees Twenty Five Thousand Only ) towards earnest money in the name of BALMER LAWRIE & CO. LTD. payable at Silvassa or Vapi . Organizations registered under National Small Industries Corporation (NSIC) are exempt from payment of EMD.
- C. Documents/printed literature pertaining to the system ( cameras, NVR, POE Switches, Units etc ) proposed for supply and installation at BALMER LAWRIE which must match with the items used/supplied while commissioning the project
- D. Tenderer should have at least three years experience in sales, services, implementing/installing and maintenance of CCTV systems. Documentary proof substantiating experience to be enclosed along with Pre-Qualification Bid .
- E. Minimum Average Turnover of Rs. 50,00,000 ( Rupees Fifty Lakhs ) for the last three ( 3 ) years is essential. The Bidder should submit financial statements ( Balance sheet and Profit & Loss Account ) for the last three years, duly audited by practicing chartered accountant.
- F. Tenderer should have GST registration . GSTIN as well as HSN Number to be mentioned.
- G. Bidder should be either OEM (Original Equipment Manufacturer) of CCTV who is willing to undertake total scope of work OR an Authorized System Integrator/Provider having direct support agreement/MOU with the OEM. The system Integrator/Provider shall submit a letter of Authorization from OEM for this specific tender or for a similar job carried out in last 2 years. The Certificate/Authorization Letter must be enclosed with the Bid, without which the offer shall be liable for rejection.
- H. The Bidder and the OEM should be able to support the project site and the equipment "FREE OF COST" for a period of one year from the date of installation and commissioning up to satisfaction of BALMER LAWRIE. This basically means the technology support should be provided for a minimum period of one year. All hardware, Software Updates shall be provided during the warranty period of one (1) year.

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- I. The Bidder should have experience in executing IP based CCTV solutions ( with not less than 25 cameras ) in Industry/Malls/Hospitals/Banks or Government Offices, PSUs. Documents in relation to Execution/implementation of such CCTV projects/orders ( minimum 2 projects ) during last 3 years should be attached as a proof along with Pre-Qualification Bid.
- The vendor must have installed CCTV systems at minimum 7 different sites in last three years out of which minimum two ( as stated above ) should be IP based solutions involving 25 or more cameras. Documentary evidence such as copy of Purchase/Works Order should be enclosed with the pre-Qualification Bid.

2	<b>OTHER TERMS AND CONDITIONS</b>
a)	The activity through CCTV shall be viewed by the BALMER LAWRIE officials on their PC's or laptops placed in their cabin/room at a time which shall be connected to the CCTV system through existing LAN set up .
b)	The BALMER LAWRIE officials should have the choice of magnifying the view / other selections as desired. To facilitate this, the vendor should include necessary VMS as required.
c)	Possible applications of the proposed CCTV System should include tracking movements, verification and recognition, through high quality images, of persons and objects including vehicles. The recordings of the scene of the Jurisdiction shall be helpful in case of enquiries etc. in establishing the truth.
d)	The Products shall have quality system compliance with the IS/ISO9001 and the equipments shall be CE/FCC/UL approved.
e)	Maintenance shall cover services, repairs and replacements necessary to keep the equipments in good working order on reasonable use of the equipments during the contract period. Monthly preventative maintenance check should be carried out to keep the equipments in good working conditions. Maintenance will include all cameras, accessories, etc.
f)	CCTV quoted should permit recording of 365 days x 24 hours on continuous basis. There should be facility for the retrieval of data back up storage for at least last one (1) months so that whenever required it can be down loaded and viewed.
g)	The bidder should provide schematic diagram of the proposed configuration and locations of Cameras, control room etc. and describe in detail all the systems, sub-systems, component and connectivity.
h)	Hand on Training to BALMER LAWRIE personnel shall be part of the contract. During installation at BALMER LAWRIE site, the associated BALMER LAWRIE coordinators shall be guided on the system usage.
i)	The entire cable laying (power and control ) and connectivity of equipment in the system, supply of suitable brackets for cameras, fixing them etc. will be in the scope of bidder.

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j)	Any major item of work(s) not mentioned in this tender document but essential during the execution of work in order to make the site complete in all respects can be quoted separately, if required , subject to proper justification by tenderer
k)	The Bidder shall maintain required spares to maintain the specified uptime. This includes at least two (2) number of standby cameras at BALMER LAWRIE site during warranty period. No extra payment shall be made by BALMER LAWRIE for keeping/maintaining standby equipment/accessories.
l)	The bidder should carry out the site survey before submitting the tender.
m)	The cameras are to be fixed or mounted on the existing structure/top of galvanized poles. The scope includes supply , erection and installation, mounting, arrangements, supply of suitable brackets/ stands, wiring,necessary civil works, etc.
n)	The power supply required by the vendor/contractor during the phase of erection/installation/commissioning will be provided by Balmer Lawrie however the consumables in this regard , if any , will be arranged/procured by vendor at own cost.
o)	Balmer Lawrie strictly adheres to the "Health, Safety & Environment" norms prescribed by the Government. The contractors/interested vendors MUST understand from the 'Safety Co-ordinator' of Balmer Lawrie the Rules , Regulations and Restrictions in this regard before they quote.
p)	Payment Terms : 90% amount immediately after 30 days from the date of submission of Invoice on completion of the job in all respects. Balance 10% will be retained towards "Performance Guarantee" and will be released only after successful performance for one year from date of project completion. However, this amount may be released earlier on submission of Bank Guarantee of equivalent amount, in favour of Balmer Lawrie, for a period of 13 months from the date of job completion

### 3. SCOPE OF WORK

1	Supply, installaion and commissioning of out-door and indoor, all weather-proof Day /Night Motorized Zoom cameras with vari-focal lens .
2	All cameras to be monitored at security room as well at the cabins of Plant Head and/or a few more officials in the plant
3	The offered system shall be installed and commissioned on turnkey basis by the supplier within 8 weeks from the date of receipt of Order/LOI. Commissioning will be considered as complete only after demonstrations are carried out to the full satisfaction of the Balmer Lawrie.
4	Cost of any work (electrical/instrumental or any other type) involved at installation/commissioning stage shall be included in the quotation. Separate billing or any additional invoicing for the same shall not be considered/entertained.
5	Initial expenditure for testing all the systems shall be borne by the vendor.
6	06 U rack must be provided at camera sites to accommodate all the relevant equipments except the cameras. Housing of some cameras meant for indoor use shall be vandal proof IK10 whereas outdoor camera housing shall be of IP66 or of better rating/quality. These must be integrated by the camera manufacturer or their authorised representatives.

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7	Proper protection (all weather proof) and lightening/surge protection as per standards must be provided for the whole system.
8	MCB's (Manually Controlled Barriers) of appropriate rating must be provided at convenient locations. Power supply boards must have 5/15 amps with independent piano type switches.
9	Location, direction, height and camera positioning should be decided by the vendors bearing in mind the end results Balmer Lawrie aims at ( which will be expressed/narrated by the Plant Head explicitly ) and this job, in no way , should affect the routine functions of our organization.
10	Provision for standby power supply (UPS BACKUP) for each camera, NVR, display unit, PC and other Systems.
11	Self-supporting poles/mast of GI material (IS standards) and must be grounded in concrete structure wherever required for installation of cameras.
12	Supply and laying of cat6 flexible cable, OFC Cable and 1.5 sqmm 02 core power supply cable with 25 mm PVC conduit pipe and HDPE pipe
13	Vendor should give instruction, operation, maintenance and circuit diagram manual for all.
14	All Cameras NVR and VMS Software video analytic Housing of camera must be one make only.

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Annexure B

SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF IP BASED  
SURVEILLANCE SYSTEM

BOQ FOR CCTV SYSTEM

2MP IR Bullet Camera (varifocal) Technical Compliance Sheet

Sr No	Function	Specification	Compliance (Yes/No)
1	Image Sensor	1/2.7" 2 Megapixel CMOS	
2	Minimum Illumination	0.01Lux/F1.4(Color); 0Lux/F1.4(IR on)	
3	Shutter Speed	Auto/Manual, 1/3(4)~1/10000s	
4	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
5	Gain Control(AGC)	Auto/Manual	
6	Lens	2.7mm~12mm Motorized	
7	Back Light Compensation	BLC / HLC / WDR(120dB)	
8	S/N Ratio	More than 50 dB	
9	Video Compression	H.264/H.264+	
10	Video Streaming	2 Streams	
11	Resolution	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ CIF(352x288/352x240)	
12	Privacy Mask	Off / On (4 Area, Rectangle)	
13	Day/Night	Auto(ICR)/Color/B/W	
14	Protocol	HTTP;HTTps;TCP;ARP;RTSP;RTP;UDP;SMTP; FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;	
15	Ethernet	RJ-45 (10/100Base-T)	
16	User Account	10 Users/20 users	
17	IR	IR Range of 60 Mtr.	
18	Smart Phone	iOS, Android	
19	Edge Storage	NAS (Network Attached Storage), Local PC for instant recording Micro SD Card 128GB	
20	Operating Temperature	-40°C~+60°C, Less than 95% RH	
21	Power Source	DC12V, PoE(802.3af)	
22	Certification	UL, CE, FCC	
23	Weatherproof Standard	IP67	

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### 2MP Bullet Camera (with fixed lens) Technical Compliance Sheet

Sr No	Function	Specification	Compliances (Yes/No)	
1.	Image Sensor	1/2.8" 2Megapixel progressive scan Exmor CMOS		
2.	Effective Pixels	1920(H)x1080(V)		
3.	Scanning System	Progressive		
4.	Min. Illumination	0.009Lux/F2.0 (Color), 0Lux/F2.0 (IR on)		
5.	S/N Ratio	More than 50dB		
6.	IR Distance	Up to 40m		
7.	Day/Night	Auto(ICR)/Color/B/W		
8.	Backlight Compensation	BLC / HLC / WDR(120dB)		
9.	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
10.	Gain Control	Auto/Manual		
11.	Noise Reduction	3D DNR		
12.	Privacy Masking	Off / On (4 Area, Rectangle)		
13.	Focal Length	3.6mm (6mm optional)		
14.	Max Aperture	F2.0(F2.0)		
15.	Focus Control	Fixed		
16.	Angle of View	H: 87° (51°), V: 48° (30°)		
17.	Lens Type	Fixed lens		
18.	Mount Type	Board-in Type		
19.	Video Compression	H.265+/H.265/H.264+/H.264		
20.	Resolution	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)		
21.	Frame Rate	Main Stream	1080P(1~50/60fps)	
		Sub Stream	D1(1~50/60fps)	
		Third Stream	1080P(1~25/30fps)	
22.	Bit Rate	H.264: 24~9472Kbps H.265: 14~5632Kbps		
23.	Smart detection	Tripwire Intrusion Object Abandoned/Missing Face detect		
24.	Ethernet	RJ-45 (10/100Base-T)		
Sr	Function	Specification	(Yes/No)	
25	Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP;		

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26.	Compatibility	ONVIF, PSIA, CGI	
27.	Max. User Access	20 users	
28.	Smart Phone	iOS, Android	
29.	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
30.	Power Supply	DC12V, PoE (802.3af)	
31.	Certifications	UL, CE, FCC	
32.	Ingress Protection	IP66	

### Dome Camera Technical Compliance Sheet

Sr. No,	Function	Specification	Compliances (Yes/No)
1.	Image Sensor	1/2.7" 2Megapixel progressive scan CMOS	
2.	Effective Pixels	1920(H) × 1080(V)	
3.	Scanning System	Progressive	
4.	Electronic Shutter Speed	Auto/Manual, 1s~1/30000s	
5.	Min. Illumination	0.025Lux/F2.1(Color), 0Lux/F2.1(IR on)	
6.	S/N Ratio	More than 50dB	
7.	Max. IR LEDs Length	30m	
8.	Day/Night	Auto(ICR)/Color/B/W	
9.	Backlight Compensation	BLC / HLC / DWDR	
10.	White Balance	Auto/Manual	
11.	Gain Control	Auto/Manual	
12.	Noise Reduction	3D	
13.	Privacy Masking	Up to 4 areas	
14.	Focal Length	3.6mm(6mm optional)	
15.	Max Aperture	F2.1(F2.0)	
16.	Focus Control	Manual	
17.	Angle of View	H: 93°(63°)	
18.	Lens Type	Fixed lens	
19.	Mount Type	Board-in Type	
20.	Compression	H.264/ H.264H/ H.264B/ MJPEG	
21.	Resolution	1080P(1920×1080)/720P(1280× 720)/ D1(704× 576/704× 480) / CIF(352× 288/352× 240)	
Sr	Function	Specification	(Yes/No)
22.	Frame Rate	Main Stream	1080P(1 ~ 25/30fps)
		Sub Stream	D1(1 ~ 25/30fps)
23.	Bit Rate	H.264: 4kbps~8192bps	
24.	Corridor Mode	Support	
25.	Ethernet	RJ-45 (10/100Base-T)	
26.	Protocol	IPv4/IPv6, HTTP, HTTPS, TCP/IP, UDP, UPnP, ICMP, IGMP, RTSP, RTP,	

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		SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS	
27.	Compatibility	ONVIF, CGI	
28.	Max. User Access	20 users	
29.	Smart Phone	iPhone, iPad, Android, Windows Phone	
30.	Power Supply	DC12V, PoE (802.3af)	
31.	Power Consumption	<4.4W(IR on)	
32.	Certification	UL, CE, FCC	
33.	Ingress Protection	IP67	

### PTZ Camera Technical Compliance Sheet

Sr. No.	Function	Specification	Compliance (Yes/No)
1	Image Sensor	1/2.8" STARVIS™ CMOS	
2	Effective Pixels	1920(H) x 1080(V), 2 Megapixels	
3	S/N Ratio	More than 55dB	
4	Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)	
5	Focal Length	4.5mm~135mm	
6	Focus Control	Auto / Manual	
7	White Balance	Auto, ATW, Indoor, Outdoor, Manual	
8	Close Focus Distance	100mm~ 1000mm	
9	Angle of View	H: 67.8° ~ 2.4°	
10	IR Range	Upto150mtr	
11	AGC control	Auto / Manual	
Sr	Function	Specification	Compliance
12	Back Light Compensation	BLC / HLC / WDR(120dB)	
13	Optical Zoom	30x	
14	Digital Zoom	16x	
15	Pan Travel	0°~360° endless	
16	Tilt Travel	Tilt: -15° ~ 90°, auto flip 180°	
17	Presets	300	
18	Preset Speed	Pan: 240° /s; Tilt: 200° /s	
19	Privacy Masking	Up to 24 areas	
20	Power up Action	Auto restore to previous PTZ and lens status after power failure	
21	Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	

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22	Day/Night: IR Cut Filter	Auto (ICR) / Color / B/W	
23	Video Compression	H.265+/H.265/H.264+/H.264	
24	Video Streaming	Main stream: 1080P/1.3M/720P(1~50/60fps) Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
25	Audio Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/MPEG2-L2	
26	Audio Streaming	1/1 channel In/Out	
27	IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection	
28	Networking	RJ-45 (10/100Base-T)	
29	Auto Tracking	Supports	
30	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IPFilter, QoS, Bonjour, 802.1x	
31	Alarm Function	2/1 channel In/Out <b>Specification</b>	
32	Max Remote Users	20 users	
33	Operating Temperature	-40°C ~ 60°C (-40°F ~ +140°F) / Less than 90% RH	
34	Smart Phone	iOS, Android Phone	
35	Edge Storage	etwork Attached Storage), Local PC for instant recording, Micro SD card 128GB	
36	Weather Proof Standard	IP66	
37	Interoperability	ONVIF, PSIA, CGI	
38	Certifications	CE, FCC, UL	

### **ANPR Camera Technical Compliance Sheet**

Sr. No.	Function	Specification	Compliance (Yes/No)
1.	Resolution	2 Megapixel, 1920(H) x 1080(V)	
2.	Image Sensor	1/1.9 inch 2 Megara CMOS	
3.	Image Compress Mode	JPEG	
4.	HD Video Format	H.264 Standard, Main Profile 5.0	

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5.	HD Image Resolution	1920(H) x 1080(V)	
6.	HD Video Resolution	1920(H) x 1080(V)	
7.	HD Video Frame Rate	WDR Off, 50fps; WDR On, 25fps	
8.	Camera Shutter Speed	1/25-1/100000	
9.	IR Cut	Support	
10.	LED Light	6x LED IR lights built in	
11.	Edge Enhancement	Support	
12.	Dead Pixel Correction	Support	
13.	Auto Exposure (AE)	Support (Fully auto/Custom interval auto/Custom)	
14.	Auto White Balance (AWB)	Support (Fully auto/Colour temperature range auto/Custom)	
15.	Backlight Compensation	BLC/HLC/WDR	
16.	Day/Night	Support (All image & video ISC parameters)	
17.	RS232	Support 1 Channel	
18.	RS485	Support 1 Channel	
19.	IO Input	2 Loop, Optocoupler input (switch)	
20.	IO Output	1 Channel, Relay output	
21.	Network Interface	1 Port (100/1000M Ethernet)	
22.	Auto Iris	Support (DC Auto)	
23.	Lens Interface	C	
24.	Lens	10.5-42mm	
25.	Loop trigger	Support	
26.	Video Detection Trigger	Support	
27.	Licence Plate Recognition	Support	
28.	Recognition Distance	Up to 40 metres	

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29.	Vehicle Speed	Less than 25 mph	
30.	SD Card Storage	Support, 32GB SDcard	
31.	Remote Control Function	Support, through web client	
32.	OSD Information Superimposed	Support, Time, place, lane information, plate information	
33.	White List	Support, 10000 records	
34.	Image Records Tamper Resistance	Support, Video/image watermark tech and check function	
35.	API	CGI, SDK support	
36.	Power Supply	PoE 802.3at	
37.	Average Power Consumption	<15W	
38.	Operating Environment	-40°C - +70°C, Humidity 10% - 90%	
39.	Protection Level	IP66	

### NVR Technical Compliance Sheet

Sr. No.	Function	Specification	Compliance (Yes/No)
1.	Main Processor	Intel Processors	
2.	Operating System	LINUX	
3.	IP Camera Input	32 channel	
4.	Two-way Talk	1channel Input, 1channel Output, RCA	
5.	Interface	2 HDMI (up to 3840× 2160), 1 VGA	
6.	Resolution	3840× 2160, 1920× 1080, 1280× 1024, 1280× 720, 1024× 768	
7.	Multi-screen Display	The 1 <sup>st</sup> screen: 1/4/8/9/16/25/36 The 2 <sup>nd</sup> screen: 1/4/8/9/16	
8.	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
9.	Compression	H.265/H.264/MJPEG	



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Sr	Function	Specification	Compliance
10.	Resolution	12Mp, 8Mp, 6Mp, 5Mp, 3Mp, 1080P, 1.3Mp, 720P & etc.	
11.	Record Rate	384 Mbps	
12.	Bit Rate	16Kbps ~ 20Mbps Per Channel	
13.	Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, Stop	
14.	Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	
15.	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
16.	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	
17.	Alarm Input	16 Channel, Low Level Effective, Green Terminal Interface	
18.	Relay Output	8ch, Relay contact(1A@24VDC), NO/NC programmable, green terminal interface	
19.	Playback	128 Mbps in Raid 5 Mode; 64 Mbps in single HDD Mode	
20.	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second),	
21.	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
22.	Backup Mode	USB Device/Network/eSATA Device	
23.	Interface	2 RJ-45 ports (10/100/1000Mbps)	
24.	Ethernet Port	2 Ethernet Ports Joint Working or 2 Independent 1000Mbps Eth	
Sr	Function	Specification	Compliance
25.	Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search	
26.	Max. User Access	128 users	

*[Handwritten signature]*



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27.	Smart Phone	iPhone, iPad, Android, Windows Phone	
28.	Internal HDD	8 SATA III Ports, Up to 8 TB capacity for each HDD	
29.	HDD Mode	Single, Raid 0/1/5/6/10/50/60(Enterprise-level HDDs are recomm	
30.	USB	4 USB ports(3 USB2.0, 1 USB3.0)	
31.	eSATA	1 eSATA port	
32.	RS232	1 port, For PC communication& keyboard	
33.	RS485	1 port, For PTZ control	
34.	Power Supply	AC110V~240V, 50~60Hz	
35.	Interoperability	ONVIF 2.4, CGI Conformant	
36.	Certification	UL, CE, FCC	

### 25X IR PTZ Camera Technical Compliance Sheet

Sr. No.	Function	Specification	Compliance (Yes/No)
1	Image Sensor	1/2.8" Exmor R CMOS	
2	Effective Pixels	1920(H) x 1080(V), 2 Megapixels	
3	S/N Ratio	More than 55dB	
4	Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)	
5	Focal Length	4.8mm~120mm	
6	Focus Control	Auto / Manual	
7	White Balance	Auto,ATW,Indoor,Outdoor,Manual	
8	Close FocusDistance	100mm~ 1000mm	
9	Angle of View	H: 59.2° ~ 2.4°	
10	IR Range	Upto150mtr	
11	IR LEDs	4	
12	Back Light Compensation	BLC / HLC / WDR(120dB)	
13	Optical Zoom	25x	
14	Digital Zoom	16x	
15	Pan Travel	0°~360° endless	
16	Tilt Travel	Tilt: -15° ~ 90°,auto flip 180°	
17	Presets	300	
18	Preset Speed	Pan: 400° /s; Tilt: 300° /s	
19	Privacy Masking	Up to 24 areas	
20	Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period	
21	Day/Night: IR Cut Filter	Auto (ICR) / Color / B/W	
22	Video Compression	H.264+/H.264/MJPEG	
23	Video Streaming	Main stream: 1080P/720P/D1(1~50/60fps) Sub stream 1: D1/CIF(1 ~ 25/30fps)	

*[Handwritten Signature]*



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		Sub stream 2: 1080P/720P/D1/ CIF (1 ~ 25/30fps)	
24	Audio Compression	G.711a/G.711u(32kbps)/PCM(128kbps)	
25	Audio Streaming	1/1 channel In/Out	
26	Detection	Tripwire, Intrusion, Abandoned/Missing, Face Detection	
27	Networking	RJ-45 (10/100Base-T)	
28	Auto Tracking	Supports	
29	Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x	
30	Alarm	2/1 channel In/Out	
31	Max Remote Users	20 users	
32	Operating Temperature	-40°C ~ 70°C (-40°F ~ +158°F)	
33	Smart Phone	iOS, Android Phone, Windows Phone	
34	Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, 128GB	
35	Protection Standard	IP66	
36	Application Programming	Supports ONVIF, PSIA and CGI	
37	Certifications	FCC, CE, UL	

### Workstation Technical Compliance Sheet

Sr. No.	Function	Specification	Compliance (Yes/No)
1	Workstation (Branded)	WORKSTATION : I5 Processor or above System memory 4 GB DDR RAM minimum DVD-RW drive Optional, HDD minimum 500 GB, Network Interface Card (NIC) or compatible pair of NICs. Must be 1 Gbps, 12 function-key keyboard and a mouse pointing device, Graphics Memory Card - 1 GB. Microsoft Windows 8 with Original Licence), 12 function-key wireless keyboard and a mouse pointing device, Graphics Memory Card - 1 GB. Without monitor	



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#### Procedure For Bid Submission

The bidder shall submit their response through bid to the tender on "e-Procurement platform" at <https://balmerlawrie.eproc.in> by following the procedure given below and offer should be valid for our consideration for the period of 60 days from the DUE DATE.

#### Registration with eProcurement platform:

For registration and online bid submission bidders may contact HELP DESK of M/s C1 India Pvt., Ltd., or they can register themselves online by logging in to the website <https://balmerlawrie.eproc.in>

#### Digital Certificate authentication:

The bidder shall authenticate the bid with his Digital Certificate for submitting the bid electronically on eProcurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the eProcurement platform.

All the bidders who do not have Digital Certificates need to obtain Digital Certificate. They may contact " Help Desk " of C1 India Pvt Ltd. M/s C1 India Pvt Ltd. C104, Sector - 2, Noida 201 301. You may also get in touch with their Representatives :-

Name	Mail ID	Contact No
Mr. Ritabrata Chakraborty	ritabrata.chakrabortv@c1india.com	09748708094
Mr. Ravi Gaiwal	ravi.gaiwal@c1india.com	022-66865633
Mr. Tirtha Das	tirtha.das@c1india.com	09163254290

#### Bid Submission Acknowledgement:


The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. Tender Inviting Authority and C1 India Pvt. Ltd. will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Tender Inviting Authority for processing.

Note :-

- Vendor has to be certified to ISO 9001 latest version, if applicable.
- Vendor to conform to all applicable legal (statutory and regulatory) requirements
- Vendor should provide test certificate with the instrument..
- Bids of any tenderer may be rejected if a conflict of interest between the bidders and Company is detected at any stage.

Last date for submission of on line bid is 24/10/17 till 5.00 PM

For Balmer Lawrie & Co. Ltd.

  
Shohhit Kumar Srivastava  
Manager(Purchase)