

**KOLKATA PORT TRUST  
HALDIA DOCK COMPLEX**

**COMMISSIONING OF CAMERA SURVEILLANCE SOLUTION AT HALDIA DOCK COMPLEX, KOLKATA PORT TRUST**

**TENDER NUMBER - AD/007/CCTV/2015**

**CORRIGENDUM NOTICE**

**Ad/007/CCTV/8374**

**March 23, 2015**

Pursuant to the Pre Bid Conference & Site Inspection in respect of the subject tender held on March 17, 2015, the following may be noted:

**A. CHANGES -**

<b>Clause / Appendix</b>	<b>Original</b>	<b>Revised</b>
A 1	Appendix 1	<b>Revised Appendix 1</b>
C 2.2.1	<b>Licensing:</b> HDC, KoPT shall neither be responsible nor pay for any system software licenses, except those specifically mentioned i.e. Server OS of REDHAT/Microsoft, camera control & monitoring software and video analytics software, for which only one time cost, as included in the quote of the successful bidder, shall be paid. It is reiterated that no subsequent payment for any system software or for any component shall be made by HDC, KoPT.	<b>Licensing:</b> HDC, KoPT shall neither be responsible nor pay for any system software licenses, except those specifically mentioned i.e. Server OS of Linux/Microsoft, camera control & monitoring software and video analytics software, for which only one time cost, as included in the quote of the successful bidder, shall be paid. It is reiterated that no subsequent payment for any system software or for any component shall be made by HDC, KoPT.
C 4.16 (a)	The bid should be submitted by hand at the Office of Senior Deputy Manager (Administration); Haldia Dock Complex, Kolkata Port Trust at Jawahar Tower; Haldia Township; Purba Medinipur; West Bengal, India; PIN - 721 607, not later than 1500 hours of Mar 24, 2015 after which time and date, no bid shall be accepted.	The bid should be submitted by hand at the Office of Senior Deputy Manager (Administration); Haldia Dock Complex, Kolkata Port Trust at Jawahar Tower; Haldia Township; Purba Medinipur; West Bengal, India; PIN - 721 607, not later than 1500 hours of April 7, 2015 after which time and date, no bid shall be accepted.
C 4.16 (b)	Subject to submission of correct Tender Document Preparation Cost & Earnest Money, the 'Techno-Commercial Bid' of the tender shall be opened at 1530 hours on Mar 24, 2015 at the Office of Senior Deputy Manager (Administration); Haldia Dock Complex, Kolkata Port Trust at Jawahar Tower; Haldia Township; Purba Medinipur; West Bengal, India; PIN - 721 607 and any bidder or his authorized representative who wishes to be present at the time of the opening of the 'Techno-Commercial Bid' may do so, if desired.	Subject to submission of correct Tender Document Preparation Cost & Earnest Money, the 'Techno-Commercial Bid' of the tender shall be opened at 1530 hours on April 7, 2015 at the Office of Senior Deputy Manager (Administration); Haldia Dock Complex, Kolkata Port Trust at Jawahar Tower; Haldia Township; Purba Medinipur; West Bengal, India; PIN - 721 607 and any bidder or his authorized representative who wishes to be present at the time of the opening of the 'Techno-Commercial Bid' may do so, if desired.
C 4.24	(email: <a href="mailto:abhijit.hdc@kopt.in">abhijit.hdc@kopt.in</a> AND <a href="mailto:snmondal@kopt.in">snmondal@kopt.in</a> AND <a href="mailto:jayanto.hdc@nic.in">jayanto.hdc@nic.in</a> )	(email: <a href="mailto:abhijit.hdc@nic.in">abhijit.hdc@nic.in</a> AND <a href="mailto:snmondal@kopt.in">snmondal@kopt.in</a> AND <a href="mailto:jayanto.hdc@nic.in">jayanto.hdc@nic.in</a> )
C 2.1.1 (1)	The cameras (PTZ & FF) and its accessories like lens, encoder/decoder, IR illuminator, casing, mounting etc., the camera control software and video analytics software must be of the same make	The cameras (PTZ & Fixed) and its accessories like lens, housing, mount, the camera control software and video analytics software must be of the same make
C 2.1.1	The workstations / servers and storage must be	The workstations / servers and storage (if

(2)	of the same make	NAS is proposed) must be of the same make
C 2.1.1 (9)	It will be the responsibility of the vendor to provide and fix the cameras with weather proof and vandal proof casing / housing	It will be the responsibility of the vendor to provide and fix the cameras with weather proof and vandal proof casing / housing (refer Revised Appendix 1)
C 3.2	The bidder shall have to submit document from the Original Equipment Manufacturer (OEM) of workstation/server & storage for participating in the tender as an authorized partner. The document shall also certify that the OEM shall stand guarantee for the performance and warranty support of the products during the entire period of contract, which shall be for 60 months from the date of successful commissioning of the project. In addition, the document must also confirm technical compliance by the OEM vis-à-vis the tender terms.	The bidder shall have to submit document from the Original Equipment Manufacturer (OEM) of workstation/server & storage (if NAS is proposed) for participating in the tender as an authorized partner. The document shall also certify that the OEM shall stand guarantee for the performance and warranty support of the products during the entire period of contract, which shall be for 60 months from the date of successful commissioning of the project. In addition, the document must also confirm technical compliance by the OEM vis-à-vis the tender terms.
C 6.10.1	The successful bidder must provide on-site comprehensive (including spares & labour) next-business-day replacement warranty for PTZ & FF cameras, monitors, workstations / servers, storage and UPS for a minimum period of 60 (sixty) months from the "SUCCESSFUL EXECUTION OF THE ORDER IN TOTALITY".	The successful bidder must provide on-site comprehensive (including spares & labour) next-business-day replacement warranty for PTZ & Fixed cameras, monitors, workstations / servers, storage and UPS for a minimum period of 60 (sixty) months from the "SUCCESSFUL EXECUTION OF THE ORDER IN TOTALITY".
C 2.10 (E)	Warranty for the complete solution for 60 months from the date of successful commissioning.	Warranty for the complete solution for 60 months from the date of successful commissioning. This must include separate warranty certificates from OEM for camera, workstation / server, storage, UPS systems, camera control software and video analytics software.

**B. ADDITIONAL ISSUES -**

Sl.	Issues highlighted by prospective bidders after Site Inspection	Clarification
1	Connectivity between camera and switch at two locations must be commissioned by Fiber Optic Cable because of distance	It shall be the responsibility of the successful bidder to commission the connectivity using Fiber Optic Cable to connect to the nearest switch with industrial grade media converter. All equipment necessary for commissioning this connectivity shall lie on the successful bidder.
2	Earthing	It shall be the responsibility of the successful bidder to commission suitable chemical earthing for all 17 cameras, which would be deployed at 10 locations of HDC, KoPT.
3	Compliance for various certifications like UL, FCC, CE, IP66 or NEMA 4x, IK 8 or better	It shall be mandatory on the part of the successful bidder to provide such compliance certificate from OEM as part of "SUCCESSFUL EXECUTION OF THE ORDER IN TOTALITY".
4	Ownership	HDC, KoPT shall own all equipment after commissioning.

**C. ATTENDANCE SHEET & REPLY TO QUERIES - Attached**

## Revised Appendix- 1

### MINIMUM GUIDING SPECIFICATION

**INTENDING BIDDER MUST SUBMIT INFORMATION AS PER THE FOLLOWING TABLE FOR  
SERIAL 1 & 2 DULY CERTIFIED BY ORIGINAL EQUIPMENT MANUFACTURER**

<b>NATURE OF EQUIPMENT -</b>				
<b>Sl.</b>	<b>Functionality / Description</b>	<b>Minimum Guiding Specification as per Tender Document</b>	<b>Make &amp; Model offered</b>	<b>COMPLIANCE (YES/NO) to be certified by OEM</b>

### LIST OF EQUIPMENT

#### **1. CAMERA, CAMERA CONTROL SOFTWARE & VIDEO ANALYTICS SOFTWARE**

<b>PAN TILT ZOOM CAMERA – TEN (10)</b>		
<b>Sl.</b>	<b>Functionality / Description</b>	<b>Minimum Guiding Specification</b>
1	Camera Type	High Performance Colour Day-Night Integrated HD PTZ True IP Camera
2	Image Sensor Type	1/2.8" Progressive CMOS sensor or better
3	Pan / Tilt / Zoom	Pan: 360 degree endless rotation
		Tilt: 180 degree or better
		Optical Zoom : 30x or better, Digital Zoom: 12X or better
4	Panning Speed (Manual & Preset)	0.5 degree to 180 degree per second (programmable) or better.
5	Tilting Speed (Manual & Preset)	0.5 degree to 90 degree per second (programmable) or better.
6	Pre-positions / Presets	Integrated positioning system with at least 256 presets.
7	Resolution	1920 X 1080
8	Frames per Second	25 FPS or better
9	Standards / Video compression Format	H.264, JPEG/MPEG, Dual Stream
10	Integrated Lens	Focal Length: 4.3 mm to 129 mm or better
		Auto Iris & Auto focus
11	Day-Night	True Day-Night
12	Sensitivity	Colour: 0.5 LUX or better
13		B-W: 0.2 LUX or better
14	Ethernet interface of IP camera	Built-in Ethernet interface 10 Base T / 100 Base-TX (RJ-45)
15	Supported Protocols of IP camera	TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, RTSP, RTP, RTCP, PPPoE, ICMP, SNMP, IPv4, IPv6, QoS
16	Network Security	Password protection
17	Operating Humidity	0 to 90% RH (non-condensing) or better
18	Operating Temperature	0°C - 50°C or better
19	Power Supply & POE	Required power adapter, IEEE802.3at compliant
20	Mounting	Of the same OEM
21	Certification	CE, FCC, UL/EN
22	Environment and Vandal	IP66 or NEMA 4x and IK 8 or better

	Protection	
23	ONVIF Support	Support ONVIF Profile S
24	Protection against network failure	Minimum 32GB SD / Micro SD card or better
25	Heater & blower	Integrated
26	Other features	Noise Reduction
27	No of Clients Support	At least 5 simultaneous users

FIXED CAMERA – SEVEN (07)		
Sl.	Functionality/ Description	Minimum Guiding Specification
1	Camera Type	High Performance HD Fixed True IP IR Camera
2	Image Sensor Type	1/2.8" Progressive CMOS sensor or better
3	Resolution	1920 X 1080 or better
4	Frames per Second	25 FPS or better
5	Standards / Video compression Format	H.264, M-JPEG/JPEG
6	Integrated Lens	Focal Length: 15 mm to 50 mm of 1920 X 1080 or better
7	Day-Night	True Day-Night
8	IR LED	At least 10 Inbuilt / External IR LED
9	IR Working Distance	25 meters or better.
10	Multi streaming Capability	At least 2 independent streams.
11	Ethernet interface	10/100 Base-T, auto-sensing, half/full duplex
12	Supported Protocols	TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, RTSP, RTP, RTCP, PPPoE, ICMP, SNMP, IPv4, Ipv6, QoS
13	Network Security	Password protection
14	ONVIF Support	Support ONVIF Profile S
15	No of Clients Support	At least 5 simultaneous users
16	Operating Humidity	20%to 90% RH (non-condensing) or better
17	Operating Temperature	0°C – 50°C or better
18	Power Supply & POE	Required power adapter, IEEE802.3af compliant
19	Mounting	Of the same OEM
20	Certification	CE, FCC, UL/EN
21	Environment and Vandal Protection	IP66 or NEMA 4x and IK 8 or better
22	Protection against network failure	Minimum 32GB SD / Micro SD card or better
23	Heater & blower	Integrated
24	Other features	Noise Reduction & IR Cut Filter

CAMERA CONTROL SOFTWARE & VIDEO ANALYTICS SOFTWARE		
Sl.	Description	Quantity
1	Enterprise-level feature-rich GUI based video management software for controlling, operating, monitoring, processing, recording capability @25 fps on 1080p, configuring etc. at least 24 cameras. The offered product must support ONVIF and have automated	One (1)

	tool for simple, efficient and quick setup as well as importing layered maps in .jpeg or .dwg format for representing camera / location specific events. The proposed software must have capability for seamless integration with other systems like RFID, Access Control etc.	
2	Customizable enterprise GUI based Video Analytics Software having seamless integration with camera control software (serial 1 above) including dashboard facility and counting facility capable of detecting various types of behavior of vehicles, people and cameras & generating real time alarms for activities like restricted area entry/exit, trespassing-tripwire, camera signal-lost & signal-restored & sabotage, object removed, theft, combining tasks / thresholds logically etc. The offered product must have automated tool for simple, efficient and quick setup for various rules based on security requirements.	One (1)

## 2. DISPLAY, WORKSTATION / SERVER, STORAGE & UPS

SI.	Description	Quantity
1	55 inch color LED professional / industrial monitor	Two (2)
2	Workstation / Server with 22 inch color LED monitor with original OS of LINUX/MICROSOFT having minimum 16GB RAM & 2GB VRAM embedded Graphics Card	Two (2)
3	RAID 5 enabled Network Attached Storage (NAS) or equivalent of at least 24 TB for recording @25 fps on minimum D1 resolution of all cameras for minimum 90 days. In case the storage falls short in terms of sizing, the successful vendor must calculate the capacity of the storage accordingly and supply the same.	One (1)
4	2KVA LIAVR UPS with 1 hour battery backup	Two (2)
5	IP PTZ Keyboard with Joystick	Two (2)

## 3. OTHER ITEMS & JOBS


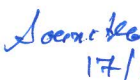
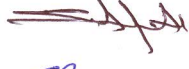


SI.	Description	Quantity
1	CAT 6 UTP cable, Patch Cords, I/O units	As required as per Site Survey
2	Ethernet Surge Protectors for all cameras	Seventeen (17)
3	Conduit Pipes (PVC, GI)	As required as per Site Survey
4	Power Adaptors, Accessories and Cable	As required as per Site Survey
5	Supply, Installation, Integration, Configuration, Commissioning, Warranty / Maintenance, Documentation, Training and Management of the comprehensive solution	As per Tender Document

Tender No - A0/007/CCTV/2015

Attendance sheet

<u>Sl. No.</u>	<u>organisation name</u>
01	Technique Consulting Services
02	Webel Technology Ltd.
03	<del>STED ARIF ARI</del> - RICOH
04	Webfil Limited
05	Nangun Banerjee - Bosch- MICROPRO → ↑

pre Bid - 17/3/15 at 11.00 hrs

<u>Name</u>	<u>Signature</u>
Hemanta Majhi	 17/03/15
Soenitica Banerjee	 17/03/15
<del>S. Saha</del>	<del></del>
Sourav Banerjee	
Nangun Banerjee	 17/03/2015

Name of work: **COMMISSIONING OF CAMERA SURVEILLANCE SOLUTION AT HALDIA DOCK COMPLEX, KOLKATA PORT TRUST**

Tender reference: **AD/007/CCTV/2015**

Pre Bid Meeting Queries:

SI	Clause No	Queries	Answer
<b>Name of the Prospective Bidder: - WEBFIL LIMITED</b>			
1	1.6	The point given about POE enabled switch, in IP based network. What is the specification of the switch? What are the types of Core & access switches? How many SFP & Gig ports? Are the switches located outdoor or indoor?	Refer clause 1.6 of TD; Indoor switches; Juniper EX4200
2	2.1.1(1) / (9)	If the camera asked for is IP65/66 & IK 10 enabled then is a separate casing required to be provided for the same?	Refer clause 2.1.1 (9) of TD and addendum
3	2.1.1(4)	Since in the BOQ only 2 Work-stations with 22" monitor is asked for and 2 55" industrial monitors, then how can viewing be provided in multiple locations, ie more than 2? If so that means recording and viewing in 2 different places?	Refer clause 2.1.1 (3) & (4) of TD
4	2.2.1	It is said that HDC, KoPT shall make payment only for softwares on Redhat/Microsoft. If so does it mean that the VMS has to operate on these two mediums, if LINUX or any other then payment for the first time itself shall not be done by KoPT ?	Refer Addendum
5	2.2.4	As said that Global IP to be provided by KoPT for remote viewing purpose, can we ascertain the medium, i.e. a lease line or DDNS, as the Bandwidth to be transferred shall be a determining factor on availability of network.	The existing network of HDC, KoPT is based on FOC; Refer clause 2.2.4 of TD
6	2.10(a)	System design document to be submitted when and how? Is it a form of a proposal cause in BOQ no cable details is mentioned.	Documentation shall form an integral part of clause 6.2 of TD
7	1.2	What is the exact specification of the laid fiber optic network? i.e. SM/MM, No of Cores, bandwidth supported etc.	NA
8	6.10.1	The point regarding "Next-business day replacement" for the bidder established in Kolkata might be a bit hectic, as lodging a complaint and receiving from OEM may require a few more days. Consideration on the no of days to be extended shall be highly obliged	Refer clause 6.10.1 of TD
9	6.11.3	It is given that 72 hours time frame is given to attend and rectify faults by resident service engineer from the day the complaint is lodged over E-mail. Which one to be considered as correct time frame, clause 6.10.1 or 6.11.3? Does this also mean that service engineer has to be stationed for 60 months from date of LOA?	Coverage as per clause 6.10.1 of TD is defined clearly. Balance issues shall be as per clause 6.11.3 of TD
10	6.13.2	Payment terms are not clear. What does a clear, correct and complete bill mean? Do we have any chance for ONA Payment?	NA
11	Append ix-	Frames per second-30 or more, can it be changed to 25 or more as bandwidth required to transmit	Refer Addendum

	1/1(8)	such frame can be an issue.	
12	Appendix-1/2(40)	2 KVA UPS with 1 hr battery back up for 17 cameras, POE switch Monitor and all components is enough? On what basis is the calculation done with what spare percentage considered?	UPS systems are for server / workstations
13	Appendix-1/3(2)	Surge protectors for Camera can be in built or mandatory to be external?	It is mandatory to provide
14		Is there any pole required for mounting the cameras, or all are wall mount?	Refer clause 2.1.2 of TD
15		What is the plan proposed for ear thing of the system?	Refer Addendum
<b>Name of the Prospective Bidder: - WEBEL TECHNOLOGY LIMITED</b>			
16	3.7	CCTV Surveillance System is a new avenue, so it is impossible to have single orders of the mentioned value other than for the OEM's directly. kindly relax the criteria for single/Multiple orders as mentioned in the clause 3.7	As per TD
17		Kindly bring down the amount of EMD	As per TD
18		If the CCTV Surveillance system is required for 24*7, UPS should be attached to every camera otherwise 24*7 recording can be hampered in case of power supply.	NA
19		The Port Authority should identify rat infested areas to enable us to do casing with GI instead of PVC since cutting of wires would not be covered in AMC.	NA
<b>Name of the Prospective Bidder: - VIDEONETICS TECHNOLOGY PVT.LTD</b>			
20	2.1.1 (1)	Please consider Open Platform Camera Control (or Video Management) Software from Different OEM to ensure openness	Not acceded to
21		VMS shall support open protocol IP cameras from all major vendors. Bidders shall clearly list in their proposal the brands and models already integrated into VMS.	NA
22		VMS shall support <b>Windows, Linux and Open Source DBMS (PostgreSQL, MySQL)</b>	NA
23		VMS should support Remote access for Live viewing and Archive search using any standard Browsers, e.g., <b>Mozilla Firefox, Chrome, Internet Explorer, Safari</b> , etc.	NA
24	Appendix-1.(1)	The VMS shall offer centralized management of all devices, servers and users and must empower a flexible rule-based system driven by schedules and events	Refer Addendum
25		The VMS should be able to run on a hardware server of a reputable brand supporting Microsoft Windows Operating system and Linux (Ubuntu, SuSE).	Refer Addendum
26		VMS should allow interoperability of Operating systems; i.e., while the servers run on Linux, the Workstations/Lap tops running client applications can be a Windows or Mac system.	Refer Addendum
27		System monitor shall give actual and historic performance and use reports of server performance, storage availability, network usage	Refer Addendum



		and camera performance.	
28	Appendix-1.(2)	The VMS shall summarize activities in any given segment of video on demand, so that activities that happened during one hour of time can be viewed in less than 10 minutes. This feature shall be available on all the cameras connected to VMS, and user is free to run this application anytime on the fly on any video tile	Refer Addendum
29		Image enhancing feature to enhance the images taken from the camera in poor conditions like fog, rain etc.	Refer Addendum
30		Pre and post event recording should be available.	Refer Addendum
<b>Name of the Prospective Bidder: - SCORE INFORMATION TECHNOLOGIES LTD</b>			
31	Clause No. 6.13 / Page No. 25	<p>We request you to modify the payment terms in following way as the project is of fairly large value:</p> <p>85% payment of the order value will be made on delivery of the material at site.</p> <p>15% payment of the order value will be made after installation &amp; Commissioning of the project</p>	As per TD
<b>Name of the Prospective Bidder: -LG ELECTRONICS INDIA PVT. LTD</b>			
32	Page 36, SL no. 15	Delete Supported protocol of IP camera- PPPoE	Refer Addendum
33	Page 36, SL no. 17	Request to change Operating Humidity 0 to 80% for PTZ Camera	Refer Addendum
34		Request to add UL ,FCC, CE Certificates (PTZ Camera)	Refer Addendum
35	Page 37, SL no. 06	Request to change Fixed focus camera Lens to 5 ~50mm	Refer Addendum
36	Page 37, SL no. 12	Delete Supported protocol of IP camera - PPPoE	Refer Addendum
37	Page 37, SL no. 16	Request to change Operating Humidity 0 to 80% for Fixed focus camera	Refer Addendum
38		Request to add UL ,FCC, CE Certificates (Fixed focus Camera)	Refer Addendum
39	Clause No. 2.1.1	Delete Lens & Housing from same OEM	Refer Addendum
<b>Name of the Prospective Bidder: - INTEC INFONET</b>			
40	Clause No. 6.13.1	In Tender process the BOQ given for the supply portion indicates the minimum requirement of the tenderer. Any additional supply is billed extra as per actual. The Service part remains as per actual consumption and billed accordingly. As per the tender terms 6.13.1, you have indicated that the billing of the Transceiver, Passive supply will also be done as per actual. We request you to kindly amend this terms that the payment of Service Part of the Job will be done as per actual.	As per TD
41	Clause No. 6.13.2	Kindly release part payment towards the	As per TD

		invoice raised on completion of 100% supply. Amend the payment terms to 80% against complete delivery and 20% after "SUCCESSFUL EXECUTION OF THE ORDER IN TOTALITY".	
42	Appendix- 1 (point 3) PTZ Camera	The Tilt Travel should be 180 degree or Better for better in depth coverage of field of view. Else, the objective of periphery surveillance shall be affected. The Tilt should not be less than -10 degree to 190 degree or Better	Refer Addendum
43	Appendix 1 (point 4) PTZ Camera	The better Pan speed per sec ensures the faster coverage of field view & its objects at real time enabling the quick auto tracking of field of view sequence. Hence, the pan speed should not be less than 200 degree/sec or Better.	Refer Addendum
44	Appendix 1 (point 6) PTZ Camera	Preset speed should not be less than 380 degree per sec	Refer Addendum
45	Appendix 1 (point 8) PTZ Camera	For periphery surveillance, 60FPS is recommended as it accurately cover the field of view of speeding vehicles or objects ensuring real time view or recording even though objects are speeding @60KM/hr or more. It should be 1920x1080 @60 FPS or Better.	Refer Addendum
46	Appendix 1 (point 10) PTZ Camera	For enhanced Field of view coverage in case of periphery surveillance AUTO -IRIS should be changeable to P-IRIS. P-IRIS enhances speeding vehicle or mob back view of coverage along with front view of field of objects. Hence, Lens IRIS Control should be of Auto/Manual/P-Iris	Refer Addendum
47	Appendix 1 (point 12) PTZ Camera	0.5Lux (color) shall be sufficient need as the camera to operate at 60FPS for better coverage of field view	Refer Addendum
48	Appendix 1 (point 13) PTZ Camera	0.1Lux (B/W) shall be sufficient need as the camera to operate at 60FPS for better coverage of field view	Refer Addendum
49	Appendix 1 (point 15) PTZ Camera	QOS feature should be incorporated as it enables the streams to synchronize the audio-video for the single stream at a real time.	Refer Addendum
50	Appendix 1 (point 16) PTZ Camera	The camera must provide access to minimum 5 nos. of simultaneous users. Also security for HTTPS, IP Filter, IEEE 802.1x should be there	Refer Addendum
51	INTEC INFONET also Requested to add following points .	AGC- Auto gain function must be there for PTZ Camera enabling auto/ Manual( Max Gain limit settings for Full Auto, Shutter Priority and iris priority modes) in case of sudden change of light in field of view.	Refer Addendum
52		Environment Protection - The camera since be used in outdoor & shall be used for outdoor field of view of coverage , hence , the camera must be of NEMA-4X/IP66-Weather proof variety & IK-10- Impact Resistance Variety. Certificates of compliance should be provided.	Refer Addendum
53		Certificates - CE;FCC;UL;EN	Refer Addendum
54		WDR- should not be less than 80db	Refer Addendum
55		Backlight Compensation -should be there for	Refer Addendum

		proper field of view through AGC incase of low light through CBR/VBR for each independent stream	
56		Privacy Masks: Alarms; IR-Cut Filter- Camera must support a minimum of 16 nos. of Privacy Masks; 4 inputs & 2 outputs for Alarms and should have IR cut Filter to avoid de-focus due to dispersion for artificial lights coming from objects in the field of view.	Refer Addendum
57		Motion Detection ;Electronic Image Stabilization; Noise Deduction- The camera must support these features	Refer Addendum
58		Dual Streams-Should support	Refer Addendum
59	Appendix 1 (point 2) Fixed Focus Camera	The image sensor does not fit with 1.3 MP. Please change it to 1920 X 1080. This shall bring compatibility to Surveillance aspects. The image sensor should be ½ 8 or Better	Refer Addendum
60	Appendix 1 (point 3) PTZ Camera	Resolution 1.3 Mega Pixel or better- 1280 x 1024. Please change it to 1920 X 1080.	Refer Addendum
61	Appendix 1 (point 4) PTZ Camera	For periphery surveillance, 60FPS is recommended as it accurately cover the field of view of speeding vehicles or objects ensuring real time view or recording even though objects are speeding @60KM/hr or more. It should be 1920x1080 @60 FPS or Better. As the IR Bullet Cameras shall be there along with PTZ for cross sectional view of PTZ coverage & taking it up sharing of field of views.	Refer Addendum
62	Appendix 1 (point 5) PTZ Camera	Should support dual streams simultaneously	Refer Addendum
63	Appendix 1 (point 6) PTZ Camera	It's contradictory & OEM centric as IR beam distance only 25 mtr. Please make it OEM/SI to specify ensuring 25 mtr of field of view of coverage as per IR beam distance	Refer Addendum
64	Appendix 1 (point 7) PTZ Camera	TDN with IR cut filter should be asked since camera has its IR beams & also artificial lights coming from objects with in the field of views	Refer Addendum
65	Appendix 1 (point 10) PTZ Camera	Must support at least 5 users as per basic Surveillance guidelines & requirements of Video Database Clients.	Refer Addendum
66	Appendix 1 (point 12) PTZ Camera	QOS feature should be incorporated as it enables the streams to synchronize the audio-video for the single stream at a real time	Refer Addendum
67	Appendix 1 (point 13) PTZ Camera	Should also support Password Protection, IP address filtering, HTTPS encrypted data transmission, user access log.	Refer Addendum
68	INTEC INFONET also requested to add following points.	Lens -Auto iris & Auto focus -For enhanced field of view coverage in case of periphery surveillance AUTO -IRIS should be changeable to P-IRIS. P-IRIS enhances speeding vehicle or mob back view of coverage along with front view of field of objects. Hence, Lens IRIS Control should be of Auto/Manual/P-Iris	Refer Addendum
69		Micro SD - The camera must support Micro SD card for Event trigger recording; continuous	Refer Addendum

		and schedule recording; and Automatic recording when network fails.	
70		Backlight Compensation; Front light Compensation -should be there for proper field of view through AGC incase of low light through CBR/VBR for each independent streams. Also, incase of sudden lights focusing on camera it must compensate for accurate image of object in field of view.	Refer Addendum
71		Privacy Masks; Alarms; IR-Cut Filter- Camera must support.	Refer Addendum
72		Motion Detection; Electronic Image Stabilisation; Noise Deduction - The Camera must support these features.	Refer Addendum
73	Specification of NVMS in appendix - 1 CAMERA CONTROL SOFTWARE & VIDEO ANALYTICS SOFTWARE	Please specify the VMS feature: - 1. Channels Licenses; 2. Clients Licenses; 3. Integration of Video analytics with VMS; Through-put; RAID-5 enabled storage ; No. of days storage@ FPS; Resolution; days; MBPS; etc; 4. Certificates; 5. Video Compression; 6. Integration with other Security Systems for unified command & control - like access; fire; intrusion; etc. 7. NVR Storage or NAS storage or either of them at RAID 5 level.	Refer Addendum
74	Specification of NVMS in appendix - 1 CAMERA CONTROL SOFTWARE & VIDEO ANALYTICS SOFTWARE	Please specify its suggested that the Video Analytics must be from same OEM for end to end compatibility & Warranty of products under system Warranty	Refer Addendum
<b>Name of the Prospective Bidder: - BOSCH LIMITED</b>			
75	Appendix 1 (point 17) PTZ Camera	Change Operating Humidity : 0% to 100% relative, condensing	Refer Addendum
76	Appendix 1 PTZ Camera	Certification : - UL,CE,FCC &EN	Refer Addendum
77	Appendix 1 (point 2) Fixed Focus Camera	Image Sensor Type:- From 1/1.8" CMOS image sensor to 1/3" CMOS Sensor (Generalized)	Refer Addendum
78	Appendix 1 (point 6) Fixed Focus Camera	Lens Focal length 3 to 10 mm or better	Refer Addendum
79	Appendix 1 PTZ Camera	Certification : - UL,CE,FCC &EN	Refer Addendum
80	Network Attached Storage specification (not there in tender specification)	Video Analytics Software is mentioned additionally but there is no separate server considered as per requirement so it is suggested to make video analytics to be part of camera & hence, video analytics shall be available on board with camera i.e. edge based video analytics shall be considered.	Refer Addendum
81		The IP Video Management Appliance shall manage all IP and digital video, audio, and security data transmitted across an IP network.	Refer Addendum
82		The IP Video Management Appliance shall come with a pre-installed VMS license for connecting 32 concurrent recordable cameras.	Refer Addendum
83		Software updates shall be available free of	Refer Addendum

		charge during the product warranty period. The software installed on the IP Video Management Appliance shall not be subject to any additional Software Maintenance Agreements (SMAs).	
84		The IP Video Management Appliance shall be a pre-configured and pre-installed IP video management solution with up to 8 TB (4 x 2 TB) storage capacity.	Refer Addendum
85		The IP Video Management Appliance shall offer front-swappable SATA-II hard drives providing 8 TB of gross storage capacity.	Refer Addendum
86		The IP Video Management Appliance shall run the Video Streaming Gateway to allow third-party camera integration.	Refer Addendum
87		The IP Video Management Appliance shall allow remote viewing.	Refer Addendum
88		The IP Video Management Appliance shall offer a bandwidth of 120 Mbit/s (read and write).	Refer Addendum
89		The IP Video Management Appliance shall offer an Intel Core i3-2120 processor.	Refer Addendum
90		The IP Video Management Appliance shall utilize Microsoft Windows Storage Server 2008 R2 (64-bit).	Refer Addendum
91		The IP Video Management Appliance shall be configurable to a RAID-1 software configuration (with reduced performance and net capacity values).	Refer Addendum
92		The IP Video Management Appliance shall enable viewing of high-quality HD video despite low or limited bandwidth by utilizing Dynamic Transcoding technology.	Refer Addendum
93		The IP Video Management Appliance shall decode and decompress the data stream to a lower bit rate stream tailored to the bandwidth of the connection.	Refer Addendum
94		The IP Video Management Appliance shall offer Disk on Module (DoM); a solid-state, non-volatile memory module that contains a backup image of all system software needed to a full system recovery.	Refer Addendum
95		The IP Video Management Appliance shall provide the VMS Client for remote viewing and archiving	Refer Addendum
96		The IP Video Management Appliance shall offer a 1333 MHz maximum front side bus.	Refer Addendum
97		The IP Video Management Appliance shall have a DDR3 1066/1333 MHz UDIMM memory.	Refer Addendum
98		The IP Video Management Appliance shall come with 4 GB, DDR3-1333 SO-DIMM (2 x 2 GB), of memory installed.	Refer Addendum
99		USB Ports: 6 USB 2.0 ports; 1 USB 3.0 port	Refer Addendum
100		Network: 1 x Gigabit Ethernet LAN	Refer Addendum
<b>Name of the Prospective Bidder: - RICOH INDIA LIMITED</b>			
101	Under Heading Eligibility Criteria PG	Change to: Similar work shall mean having experience in commissioning <b>IP/ANALOG</b> based	As per TD

	NO 11, SECTION 3.7 within NOTE	camera surveillance system.	
102	Appendix 1 (point 6) Fixed Focus Camera	Focal Length in Fixed Focus Camera is always fixed, Variable Lens Camera has a variable Focal Length, requested either make the Fixed Focus Camera as Variable Focus Camera or fix the Focal Length.	Refer Addendum
103	Appendix 1 (point 2) Fixed Focus Camera	Request to change CMOS image sensor to 1/2.8" as 1/1.8" is not an available standard	Refer Addendum
104	Appendix 1 (point 4) Fixed Focus Camera	Request to change 30 FPS or better to 25 FPS as in PAL 30 FPS is not supported.	Refer Addendum
105	Appendix 1 (point 3) Fixed Focus Camera	Request to check the optical zoom requirement With IR distance at this resolution.	Refer Addendum
106	Appendix 1 (point 9) Fixed Focus Camera	How much meters to mention here as optical zoom and IR distance is not matching	Refer Addendum
107	Appendix 1 (point 18) Fixed Focus Camera	IEEE802.3af is only required or supported by PTZ Camera . In case of fixed focus camera it should be IEEE802.3af	Refer Addendum
108	DISPLAY, WORKSTATION / SERVER, STORAGE & UPS. Page No. 38, SL No 3 Under Description NAS.	Request you to increase it to 48 TB or decrease the recording days to 45 minimum as the Volume of DATA being recorded for 90 Days Will be more than 24 TB. Please mention Storage like RAID Level, Redundant Power Supply etc the redundancy features for the NAS.	Refer Addendum
109	DISPLAY, WORKSTATION / SERVER, STORAGE & UPS. Page No. 38, SL No 2 Under Description Server/Workstation	Request to please elaborate on the minimum configuration like Hard Drive, CPU, Number of CPU etc	Refer Addendum
110	DISPLAY, WORKSTATION / SERVER, STORAGE & UPS. Page No. 38, SL No 4 Under Description UPS	Request to please elaborate on the UPS configuration, whether you require an Online UPS etc	Refer Addendum
111	PAGE NO 4, DATE OF SUBMISSION OF TENDER	Request you to please increase the date of submission to 6th April 2015	Refer Addendum