

## Implementation of IP Based CCTV Surveillance System at 18 numbers of OPTCL Grid Substations – Phase 2

TW-IT/OT/03/2018-19 DATE: 07-07-2018

### PRE-BID CLARIFICATIONS

#	Type of System	Relevant Content from Tender	Vendor's Query /Comment - Reasons For Change	Suggested Clause	Decision of OPTCL
1	<b>Qualification of Bidder</b>	The annual average turnover of the bidder shall be minimum Rs. 5 crores for the financial years 2015-16, 2016-17 and 2017-18	We are having more than 3 crore satisfactory govt. works completion. But we are middle scale company.	Please change the average annual average turnover of the bidder shall be minimum Rs. <b>2.5</b> crores for the financial years 2015-16, 2016-17 and 2017-18. So that we can participate in this tender and give fair competition.	As per tender
2	<b>Outdoor PTZ Camera</b>	2. Operational: Pan/tilt/ Zoom Feature: i. PAN: Preset Speed: 240°/s, iv. PRESET: Number of preset: 256	i. 200 deg/sec can suffice the purpose patrolling/tour. More fast speed does not give clear image during preset patrolling. You are requested to ammend the clause with 200deg/s preset speed. ii. Most of approved OEMs does not have 256 presets in cameras. Practically 200 presets to use in auto patrolling to define many preset locations. You are requested to ammend the clause with 200 presets.	2. Operational: Pan/tilt/ Zoom Feature: i. PAN: Preset Speed: 200°/s, iv. PRESET: Number of preset: 200	As per tender
3	<b>Outdoor Fixed Camera</b>	1. Camera Lens: The focal length of the lens shall be provided so as to meet specification the IR distance and effective viewable distance.  2. Operational : - Effective Viewable Distance- 50mtrs  - Light Sensitivity: Colour mode: 0.07 lux, B/W mode: 0.05 lux @ 30IRE, F1.2 or better	1. Lens: Please clarify the focal length to view distance at 50 meters You are requested to mention the focal length with 5-40mm in specs so Bidders can not take advantage on IR distance for viewable distance.  2. Please specify the focal length with 5~40 mm to cover 50 mtrs viewable distance.  - To view the scene in all lighting condition, camera aperture to open upto F1.4 which gives clear image in day/night mode on asked illumination value. Also Approved OEMs has tested illumination value at F1.4.	1. Camera Lens: The focal length of the lens shall be provided with 5-50mm  2. Operational : - Effective Viewable Distance- 50mtrs , 5-40mm  - Light Sensitivity: Colour mode: 0.07 lux, B/W mode: 0.05 lux @ 30IRE, F1.4 or better	As per tender
4		Defog Feature: Should have De-Fog Feature	Most of approved OEMs does not have defog feature in fixed camera, so you are requested to ammend the clause with optional defog feature.	Optional Defog Feature: Should have De-Fog Feature	As per tender
5		6. Environmental: Camera Housing & Mount 1. The housing shall have heater and blower.	All approved OEMs have camera with integrated housing which support wide operating temperature range from -40 to 60 degC without blower. It can meet operational requirement of camera at site. You are requested to ammend the clause with operating temperature range with or without heater and blower,	6. Environmental: Camera Housing & Mount 1. The housing should meet given operating temperature range of camera with or without heater & Blower..	The housing shall have optional Heater & Blower feature only for Outdoor Fixed Cameras.
6	<b>Indoor Dome Camera</b>	Light Sensitivity : Colour mode: 0.05 lux, B/W mode: 0.05 lux @ 30IRE, F1.2 or better	To view the scene in all lighting condition, camera aperture to open upto F1.4 which gives clear image in day/night mode. Also Approved OEM has tested illumination value at F1.4.	Light Sensitivity : Colour mode: 0.5 lux, B/W mode: 0.05 lux @ 30IRE, F1.4 or better	As per tender

7	<b>Fish Eye Camera</b>	1. General Effective Viewable distance : 15 mtrs (min) IR Distance: 15 mtrs (min)	Generally fish eye 360 deg camera has 8 mtr coverage with viewable and IR distance. 15 mtr IR distance in this camera is not easily available, so you are requested to ammend the cluase with 8 mtr. distance.	1. General Effective Viewable distance : 8 mtrs (min) IR Distance: 8 mtrs (min)	As per tender
8	<b>Fish Eye Camera</b>	5. Environmental Operating Humidity: Up to 95% non-condensing  6. Certification: Standards And Approvals: IEEE802.3af, CE, AS/NZS CISPR 22:2009+A1:2010,FCC, ICES-003, CU, RCM, UL 60950-1(ed.2) & CAN/CSA C22.2No. 60950-1-07, RoHS, IP66/67, IK10 and ONVIF Compliant	5. Operating Humidity: Less than or Up to 95% non-condensing  6. ICES-003 and CU all are EMC compliance certification for electronic equipment and Equivalent with EN 50130-4 standard of CE certification, So you are requested to ammend this clause with CE (EN50130-4)	5. Environmental Operating Humidity: Less than or Up to 95% non-condensing  6. Certification: Standards And Approvals: IEEE802.3af, CE, AS/NZS CISPR 22:2009+A1:2010,FCC, CE (EN50130-4),RCM, UL 60950-1 & CAN/CSA, C22.2No. 60950-1, RoHS, IP66/67, IK10 and ONVIF Compliant	As per tender
9	<b>16 Channel NVR</b>	4. Audio / Video : ,1 BNC output 8. Network: Ethernet : Min. 2 nos. RJ-45 port (1000M); (Support IP camera, DVR, NVS and etc.);	4. Audio / Video : NVR have 1 VGA and 2 nos. HDMI port for HD monitor connectivity. Earliar BNC connector have been used for analog monitor, you are requested to ammend this clause with optional BNC port.  8. Network: Ethernet : Offered NVR has 1 RJ-45 port for netwrok connectivity and 16 PoE ports for direct connectivity of IP cameras to make system flexible. No additional network switch will be required, So you are requested to ammend the clause with 1 no. RJ-45 port (1000M) and Additional 16 PoE network ports.	4. Audio / Video : ,1 BNC output Optional and 2 HDMI port  8. Network: Ethernet : Min. 1 no. RJ-45 port (1000M) and Additional 16 PoE network ports	As per tender
10	<b>TERMS OF PAYMENT – a. Supply Installation &amp; Commissioning of the CCTV System</b>	a. States about factory inspection. Hence kindly confirm if the factory inspection shall be carried out of OEM factory; which in our case is outside India. b. Request you to consider Payment Terms schedule as 70% - 20% - 10%	a. States about factory inspection. Hence kindly confirm if the factory inspection shall be carried out of OEM factory; which in our case is outside India.	b. Request you to consider Payment Terms schedule as 70% - 20% - 10%	a. Factory Inspection can be done in the SI's place, if required it can be done in OEM factory, in case the OEM's factory is located in India b. There will be no change in the payment terms.
11	<b>SCHEDULE-H (SPPROVED MAKE, QUOTED MAKE &amp; MODEL)</b>	Approved Makes for Cameras/NVR	There are various other reputed brands in the industry having competent product i.e INFINOVA, SAMSUNG.	Hence request you to include the same in your Approved Branch list or mention as 'equivalent reputed branch'.	As per tender
12	<b>As there are 18 Nos. of Grid S/S of OPTCL request you to share the CAD drawing / plan dimensions of the same.</b>				The line drawings/civil outline of the Grid S/S shall be provided during the site survey stage. Also, it is the responsibility of the SI for submission of all the drawings/layout, etc after the conducting the site survey

13	<b>Request you to extend the Due date to this tender for further 2 weeks; as there is short period between pre-bid meeting and due date.</b>				<p>The revised dates are as follows:</p> <p>1. Last date of sale of bidding document : 06.08.2018 (16:00 hrs.)</p> <p>2. Last date and time for Receipt of bids: 06.08.2018 (17:00 hrs.)</p> <p>3. Time and date of opening of Techno-commercial bids : 07.08.2018 (15:30 hrs.)</p>
14	<b>6U Network Rack</b>	mounting shelf	Equipment mounting shelf with a depth of 600mm and 1U height	The maximum depth of any wall mount rack is 600mm, so the max shelf depth can be 400mm	As per tender
15	<b>6 Core Armoured FO Cable (Single Mode, Multi-Core)</b>	6 Core Armoured FO Cable (Single Mode, Multi-Core)	For any fiber cable selection, Cable type, Optical loss parameters and its mechanical strength are the most important criteria. Without these specific points, the quality of fiber cable cannot be ensured as a wide range of cables and constructions are available in the market.	Many important features are missing which shall have a impact in fiber cable quality selection. Please add the following points to ensure quality of fiber cable: Type: Single mode fiber cable shall comply to IEC 60793-2-50, B1.3 and ITU T G 652.d (OS2), Telcordia GR-20. Shall have min 2mm HDPE outer jacket and E Glass yarns strength member. Max Attenuation @ 1310nm: $\leq 0.34\text{dB/Km}$ ; @1550nm: $\leq 0.22\text{dB/Km}$ ; @1380-1386nm: $<0.31\text{dB/Km}$ . Cable shall support tensile strength of upto 1250N and Crush of 3000N.	As per tender
		OFC should be TEC approved. The Vendor has to submit the Manufactures test reports along with OFC, Make with ISI mark.	Very few global OEM's have TEC approved products. Hence to get the quality of fiber cable required for the said application, it needs to be certified by global testing labs for standard compliance which covers all the performance related features in fiber cables.	Fiber cable should be tested in compliance with ANSI/TIA 568C fiber channel requirements, by global 3rd party labs like Intertek. Report to be submitted. Product OEM should have ISO 9001 & 14001 certified manufacturing plant in India.	As per tender
16	<b>CAT6 STP Cables (Outdoor) Type:</b>	Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2, STP Cable; should be of Industrial Grade	Since all STP cable constructions come with PVC type jackets, which is not protected from moisture and UV losses in outdoor environment, it is recommended to use specially designed Outdoor rated cables for long time usability. STP only gives protection from electrical noise and do not protect from environmental factors. Hence double jacketed U/UTP Is recommended.	CAT6 U/UTP Outdoor rated Cable: Category 6, U/UTP Double jacketed, outdoor cable, rodent resistant, TIA 568-C.2.	As per tender
		Jacket: Flame/Fire Retardant PVC	Outer jacket need to be weather protected and suitable for harsh environment installations. Inner PE jacket prevents water / moisture to seep into the conductors.	Inner Jacket: PE; Outer Jacket: LSZH, UV protected, Anti Rodent. Max Cable OD: 7.4mm	

		Temperature: upto 60 Deg C	Higher temp support for outdoor cables are important for performance consistency.	Upto 70 Deg C	As per tender
		Approval: a. UL Listed b. ETL verified to TIA / EIA Cat 6		Request to delete this and include ROHS Compliance for outdoor environmental suitability.	Approval: a. UL Listed b. ETL verified to TIA / EIA Cat 6 c. Should be RoHS compliant
17	<b>CAT6 STP Cable (Indoor)</b>	Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2, STP Cable; should be of Industrial Grade		Please clarify whether STP or UTP cable is required here, as "Unshielded Twisted Pair" is mentioned in cable description.	Shielded Twisted Pair Cable
		Jacket: Flame/Fire Retardant PVC	For all indoor cable, LSZH cables should be used as per recommendation of Fire Safety standards.	Jacket: LSZH as per IEC 60332-1	As per tender
18	<b>Cabling</b>	LAN Accessories	Field crimping of RJ45 plugs are not recommended as they are inconsistent and may give major issues in camera picture feeds.	Camera end and switch end connections are to be done using CAT6 jacks and panels. 110 style connectors must be used on both end. No RJ45 plug crimping to be used on CAT6 cables.	It is the sole responsibility of the System Integrator

**Note: All other terms and conditions mentioned in the tender shall remain unchanged.**

**CHIEF GENERAL MANAGER (IT)**