

**PROCEEDINGS OF LOCAL BODY
BASED CLOSED CIRCUIT TELEVISION CAMERA (CCTV) NETWORK
WITH DATA NETWORKING**

File No. NIEPMD/PUR 4(31)/2014-15

Date: 14 Jan 2015

Proposal for implementation of CCTV in NIEPMD campus was approved by EC in its 17th meeting held on 09 Nov 2013 (vide File No.8-1/2012-Nis dated Nov 13). The purchase was referred to ASPO by Director vide office order No. NIEPMD/Admin-Estt./Corrs/2015-15 dated 20 Oct 14. An open tender inquiry was initiated for supply, installation, testing & commissioning of CCTV & data networking from the reputed agencies. The NIT was published in 02 National Dailies, all India editions and one Tamil daily (Tamilnadu edition), Indian Trade Journal (ITJ), CPPP portal and was uploaded on institute website for wide publicity. A mandatory pre-bid meeting was scheduled on 12 Dec 14 to make understand the bidders about scope of work and to clarify about any doubts before bidding. A revised NIT was initiated on 16 Dec 14 after pre-bid meeting and including suggestions approved in pre-bid meeting. Date of Tender opening was 07 Jan 15. The committee met on 07 Jan 15 and open the technical bid received from various agencies. After evaluation of proposals technically a meeting for opening of financial bid was arranged on 14 Jan 15 with intimation to all bidders.

The committee received quotation from the following suppliers:-

1. M/s. Interlace India Pvt. Ltd, Chennai
2. M/s. Evergreen Systems, Chennai
3. M/S. Yercaud Electronics Pvt. Ltd., Chennai
4. M/S. Horizon Secure, Chennai
5. M/S. CMS Computers Ltd. Chennai
6. M/S. KELTRON, Ltd, Chennai Division
7. M/S. Micro plus Networking, Chennai

After evaluation of technical bids technical CSQ was prepared and put up to committee for perusal and pre-audit of Account officer. (Copy enclosed as Appendix "A"). On technical evaluation of bids the committee noted that M/S Horizon Secure and M/s Micro Plus Networking could not fulfilling the minimum requirement to qualify technically hence their price bids could not be considered for opening (Reason stated in Tech CSQ). Rest five agencies fulfill the eligibility criteria as per NIT and their price bids considered for opening. Brief CSQ is appended below. Detail CSQ is attached as Appendix "B" to Appendix "F" to this proceeding.


Agency Name	Total Quoted Price as per NIT (₹) "A"	Quoted price in SI No. 8 of Price Bid(₹) "B"	Final price on which compression to be made (A-B=C) (₹) "C"	Remarks (Detail of BOQ attached as "—")
M/s. Interlace	94,37,384.07	1,89,375.00	92,57,009.07	Appx. "B"
M/s. Evergreen	57,47,930.00	0.00	57,47,930.00	Appx. "C"
M/S. Yercaud	57,79,930.00	0.00	57,79,930.00	Appx. "D"
M/S. CMS	72,13,966.75	1,05,000.00	71,08,966.75	Appx. "E"
M/S. KELTRON	66,67,184.70	1,10,492.55	65,56,692.15	Appx. "F"

The committee again made one more compression of price bid based on unit cost. CSQ for the same is attached as appendix "G" to this proceeding.

On evaluation of above mentioned quotations via all the ways the committee noted that M/S Ever Green Systems, Chennai quoted the lowest rate for supply, installation, testing and commissioning of CCTV with data networking. The agency has agreed to supply the materials on credit with a condition that payment should be released within 30 days from the date of completion of work.


1A | In view of above, the committee here by recommends supply, installation, testing and commissioning of CCTV with data networking from M/S Ever Green Systems, Chennai, on rate as mentioned appendix "C" to this proceeding. Taxes applicable at the time of invoice will be paid.


The above is submitted for kind approval of Director please.


Shri Nachiketa Rout
Chairperson

— MA —
Shri S. Karthikeyan
Member


Shri. PK Tripathi
Member Secy.


Shri K. Balabaskar
Member


Shri S. Vijayaraghavan
Member

Remarks by Dy. Registrar (Admin) - DIRECTOR, MSEPMD
mess kindly see 'A' for approval pt.


24/1/15

Pl. put up all the CSQ & L on the website, wait for 7 days for any queries & then issue work order

Remarks by Director

Approved

22/02/15

Dmo & ASPO

CCTV Technical CSQ

Name of Firm Criteria	Interlace	Ever Green systems	Yercaud	Horizon Secure	CMS	Keltron	Micro Plus Networking
Tender Cost ₹ 1000	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMD ₹ 1,20,000/-	Yes	Yes	Yes	Yes	Yes	Yes	Exemption Letter Submitted.
Proof of involved in business of CCTV for last 5 years	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proof of After sale service in Chennai	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proof of ₹ 1 Crore annual turnover	Yes	Yes	Yes	No	Yes	Yes	Yes
Proof of similar 5 successful works	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proof of OEM	--	--	--	--	--	--	--
In case OEM Rep authorization from OEM	--	--	--	--	--	--	--
In case of System integrator authorization from OEM	Yes	Yes	Yes	Only Two, should be Three	Only one should be three	Only one should be three	Only Two should be three
Undertaking unconditional acceptance of T&C	Yes	Yes	No	Yes	Yes	Yes	Yes
Proof attending pre bid meeting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Valid Sales Tax Registration Certificate/ VAT Certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes
project plan for the procurement & implementation	Yes	Yes	No	No	Yes	Yes	No


 9/10/2015


 out

 DR (Admin)

 out
 Director

M/S INTERLACE INDIA Pvt. Ltd, CHENNAI

Sl. No	Item Description	Make / Model	Qty. Req.	Cost per unit	Total	Taxes applicable	Any other	Total
01	Indoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 18 x optical zoom or better, 1/3" MOS/ CMOS / CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted / Ceiling mount/ Housing . It Shall be UL Listed	Samsung, Sony, LG, Bosch, Panasonic, Honeywell, Pelco.	03 Nos.	76250/-	228750/-	14.50%	-	261918.75
02	Outdoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 36x optical zoom or better, 1/4" MOS/ CMOS/ CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted/ Ceiling mount. It Shall be UL Listed	--do--	05 Nos.	160352.50	801762.50	14.50%	-	918018.06
03	Indoor Fixed Dome camera with 1.3 Megapixel or above, Colour 1/3" fixed Dome POE camera, with HD/1,280 x 960 H.264 Resolution Camera with 2x Extra Zoom and minimum Illumination of 0.05 lx and wide angle of 104 degree view. It Shall be UL listed.	--do--	31 Nos.	27500/-	852500/-	14.50%	-	976112.50
04	HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic IR camera with 1/3 type sensor, User modes, Day/Night, BLC, DNR, WDR, SD card slot, POE, 3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA)), IP66rated housing and wall/pole mount bracket as per the required. Inbuilt Night vision with IR LEDs.	--do--	01 Nos.	76705.63	76705.63	14.50%	-	87827.94
05	HD/1.3 Megapixel or above /720P	--do--	18	9950/-	179100/-	14.50%	-	205069.50

Shri.S.Karthikeyan
Member

Shri,VijayaRagavan
Member

Dr.K.Balabaskar
Member

Shri.P.K.Tripathi
Member Secy.

Shri.Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S INTERLACE INDIA Pvt. Ltd, CHENNAI

		Nos.						
06	Waterproof Mini Dome Camera Equipped with IR LED Waterproof Dome Network Camera 2.8 mm / 3.6 mm / 6.0 mm fixed lens with POE enabled. HD/1.3 Megapixel or above /720P Bullet Camera Equipped with IR LED Waterproof Dome Network Camera 3.6 mm / 6.0 mm / 8.0 mm fixed lens fixed lens with POE enabled.	03 Nos.	--do--	9950/-	29850/-	14.50%	-	34178.25
07	NVR 64 Channel with software With UL certificate OR NAS with Storage capacity of minimum 30 days recording	01 Nos.	--do--	635500/-	635500/-	14.50%	-	727647.50
08	Desktop Computer (64Bit) Core-i5 1TB HDD, 16GBRAM , VGA Cards of 2GB, OS Windows 8.1	01	HP	180357.14	180357.5	5.00%	-	189375.00
09	Installation & Commissioning Charges	01		544155/-	544155/-	12.36%	-	611412.56
10	4-pair, Cat6 Solid copper , 23 AWG,UTP Cable (305 mtr. Roll), Meets (ISO certified ,ETL tested 600 MHZ , with Cross (+) filler pair separator& FRPVC sheath)	Roll- 13 (Each roll 305 Mtrs.)	Digilink / Systemax / AMP	5862.50	76212.50	5.00%	-	80023.13
11	Cat 6 UTP Jack- Exceed ANSI/TIA-568-C.2 and CENELECEN 50173 & ISO/IEC 11801 standards for Category 6/Class E component performance & Compatible to T568A, T568B wiring pattern, and UL-940V0 Rated Plastic & ROHS Compliant.	120 Nos.	Digilink / Systemax / AMP	143.75	17250.00	5.00%	-	18112.50
12	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 4 ft., Gray.	60 Nos.	Digilink / Systemax / AMP	143.75	8625.00	5.00%	-	9056.25
13	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with	60 Nos.	Digilink / Systemax /	156.25	9375.00	5.00%	-	9843.75

Shri.S.Karthikeyan
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Chairperson

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	Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 7 ft, Gray.	AMP							
14	Single Port face plate of size 3x3, with Back BOX Material should be ABS /UL94 V-0 with shutter of ABS UL94V-0 having spring shutter of stainless steel, Cover label of Acrylic UL94V-0.	Digilink / Systimax / AMP	60 Nos.	115.00	6900.00	14.50%	-	7900.50	
15	Cat 6, 24-port Unloaded, 1U Modular Jack Panel with labels and clear label covers and rear cable manager-ISO certified, ETL tested 600 MHZ	Digilink / Systimax / AMP	09 Nos.	1875.00	16875.00	5.00%	-	17718.75	
16	Cat 6 SFTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory crimped& Same Colour boot, Non-plenum (CM rated)- 7 ft, Gray.	Digilink / Systimax / AMP	10 Nos.	487.50	4875.00	5.00%	-	5118.75	
17	OS2 -Low water Peak Fiber Cable 6F core Loose Tube (Unitube) CSTA SM with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fiber core. With an operational temperature of -300C to+700C	Digilink / Systimax / AMP	3000 Mtr.	38.75	116250.00	5.00%	-	122062.50	
18	SC-SC / SC to LC SM Duplex - 3m Patch Cards with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fibre core.	Digilink / Systimax / AMP	35 Nos.	1812.50	63437.50	5.00%	-	66609.38	
19	6 Fiber SC-Style, Singlemode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	09 Nos.	7250/-	65250.00	5.00%	-	68512.50	
20	24 Fibre SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, is RoHS	Digilink / Systimax /	04 Nos.	17487.50	69950.00	5.00%	-	73447.50	

Shri.S.Karthikeyan
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Member Secy.

Shri. Nachiketa Rout
Chairperson

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M/S INTERLACE INDIA Pvt. Ltd, CHENNAI

	Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	AMP							
21	6 Fibre SC-Style, Singlemode, Compact LIU, RoHS Compliant Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	07 Nos.	9581.25	67068.75	5.00%	-	70422.19	
22	Smart Rack 42U, 800/1000D with Front & Rear Perforated Door with handle lock, 1 Shelf 725mm, castors and mounting hardware packet of 20, RCC loops, PDU 14 sockets (1).	Digilink / Systimax / AMP	01 No.	45000/-	45000/-	14.50%	-	51525.00	
23	FLEXIBOX 19", 6U/500MMD 1 SECN with front glass door cam lock, (1) PDU 6x5Aamp and 1.5meter feed cable and 3 pin plug, (1) shelf 255m, (1) Fan 203v 90 cfm, (1) cable manager 1U pvc loops, Hardware pkt of 10 (Assembled)	Digilink / Systimax / AMP	09 Nos.	4875.00	43875.00	14.50%	-	50236.88	
24	HDPE Pipe - 2" / 3"	Finolex/Equivalent	1500 Mtr.	112.50	168750.00	5.00%	-	177187.50	
25	HDPE Pipe - 1"	Finolex/Equivalent	1500 Mtr.	42.50	63750.00	5.00%	-	66937.50	
26	1 inch PVC pipe and channel	Finolex/Equivalent	1000 Mtr.	31.36	31360.00	5.00%	-	32928.00	
27	Electrical wiring with Armoured Cable and cable lying in meters. Electrical Wire specification : 2.5 sq mm wire, 3 core, Armoured cable, Copper wire.	Finolex/Equivalent	1000 Mtr.	96.88	96880.00	5.00%	-	101724.00	
28	Supply and Installation of weather proof box for electrical wiring termination and to place		20 Nos.	382.10	7641.92	14.50%	-	8750.00	

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	Power supply adaptor for Camera's and to keep Stabilizer for power supply to Camera.												
29	55" LED DISPLAY Resolution : 1920 x 1080, High Contrast Ratio	Samsung / Sony/LG	02 Nos.	101875.00	203750.00	14.50%	-					233293.75	
30	22" LCD DISPLAY Resolution : 1920*1080 Contrast Ratio : 4000:1	Samsung / Sony/LG	01 Nos.	11071.43	11071.43	5.00%	-					11625.00	
31	Laying of Armoured OFC Cable - (Single Mode/Multi mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor Armoured OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for laying of 6 Core Outdoor Armoured OFC Cable.		3000 Mtr.	242.36	727080.00	12.36%	-					816947.09	
32	Fibre Splicing Charges.		100 Nos.	250.00	25000.00	12.36%	-					28090.00	
33	POLE for outdoor camera, Supply and Erection of Pole (for Installation of Surveillance Camera) includes, Pole charges and Civil works (15 Feet height, 4 inches dia, 3 feet will go under the ground out of it 2 feet will be covered with concrete pillar and balance 12 feet will remain outside)	Custom	07 Nos.	9375.00	65625.00	14.50%	-					75140.63	
34	L2 - Smart switch 24 port POE switch - 10/100 base T with 2 SFP port.	Avaya/Cisco	10 Nos.	64167.19	641671.88	5.00%	-					673755.47	
35	L3 24 port Gigabit managed switch with min 12 SFP port and 12 -10/100/1000 Base T port.	Avaya/Cisco	01 Nos.	505151.56	505151.56	5.00%	-					530409.14	
36	Single Mode Fibre transiver -1000 Base LX.		24 Nos.	50435.95	1210462.50	5.00%	-					1270985.63	
37	Fibre to copper Media converter -100 Mbps - Industrial grade type.		16 Nos.	19687.50	315000.00	5.00%	-					330750.00	
38	RJ 45- Connectors/screws/clamps and other Accessories	--	10 Nos	9.38	93.80	5.00%	-					98.49	
39	Light guide Interconnect unit (LIU)	Digilink	Lump sum	-	-	-	-					0.00	

Shri.S.Karthikeyan
Member

Shri,Vijayaragavan
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Shri.P.K.Tripathi
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Shri. Nachiketa Rout
Chairperson

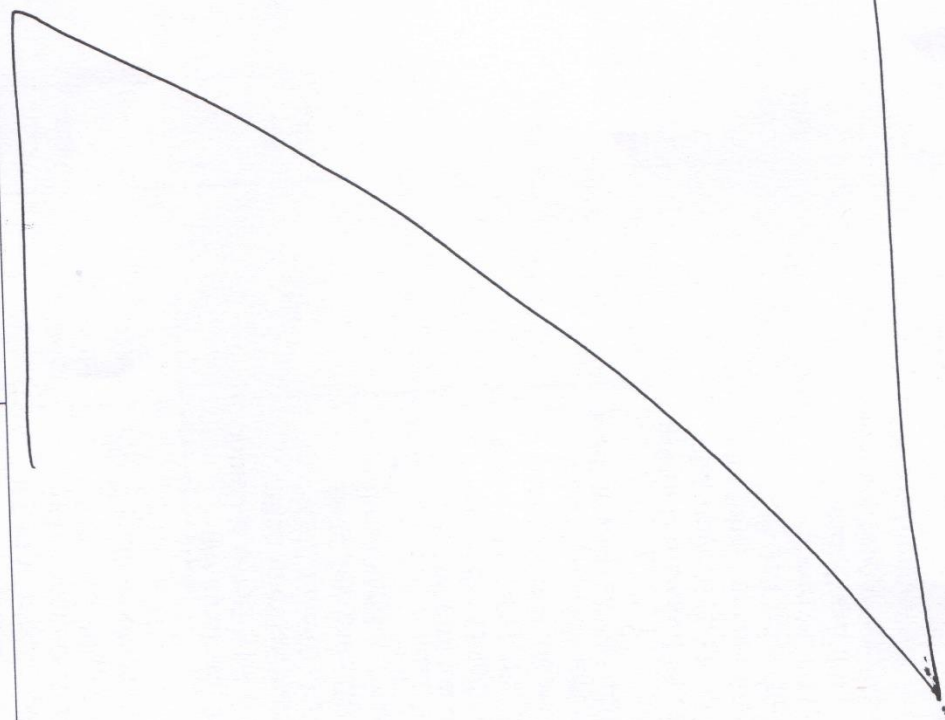
DR.(Admin)

Director

Appendix "B"


M/S INTERLACE INDIA Pvt. Ltd, CHENNAI


40	5KVA online UPS with 120 min backup	APC	01Nos.	394375.00	394375	5.00%	-	414093.75
41	Power Distribution Box, Circuit Breakers, Socket Strip etc.	--	16Nos.	137.50	2200.00	14.50%	-	2519.00
Total amount								94,37,384.07




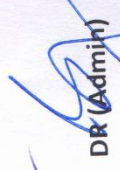
N/A
Shri.S.Karthikeyan
Member


Shri, VijayaRagavan
Member


Dr.K.Balabaskar
Member


Shri.P.K.Tripathi
Member Secy.


Shri. Nachiketa Rout
Chairperson


DR (Admin)


Director

M/S Evergreen Systems, Chennai

Sl. No	Item Description	Make / Model	Qty. Req.	Cost per unit	Total	Taxes applicable	Any other	Total
01	Indoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 18 x optical zoom or better, 1/3" MOS/CMOS / CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted / Ceiling mount/ Housing . It Shall be UL Listed	Samsung, Sony, LG, Bosch, Panasonic, Honeywell, Pelco.	03 Nos.	70147.00	210441.00	14.5%	--	240955.00
02	Outdoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 36x optical zoom or better, 1/4" MOS/CMOS/ CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted/ Ceiling mount. It Shall be UL Listed	--do--	05 Nos.	150851.00	754255.00	14.5%	-	863622.00
03	Indoor Fixed Dome camera with 1.3 Megapixel or above, Colour 1/3" fixed Dome POE camera, with HD/1,280 x 960 H.264 Resolution Camera with 2x Extra Zoom and minimum illumination of 0.05 lx and wide angle of 104 degree view. It Shall be UL listed.	--do--	31 Nos.	23398.00	725338.00	14.5%	-	830512.00
04	HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic IR camera with 1/3 type sensor, User modes, Day/Night, BLC, DNR, WDR, SD card slot, POE, 3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA)), IP66rated housing and wall/pole mount bracket as per the required. Inbuilt	--do--	01 Nos.	71376.00	71376.00	14.5%	-	81725.52

Shri.S.Karthikeyan
Member

Shri, VijayaRagavan
Member

Dr.K.Balabaskar
Member

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Member Secy.

Shr. Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S Evergreen Systems, Chennai

05	Night vision with IR LEDs. HD/1.3 Megapixel or above /720P Waterproof Mini Dome Camera Equipped with IR LED Waterproof Dome Network Camera 2.8 mm / 3.6 mm / 6.0 mm fixed lens with POE enabled.	--do--	18 Nos.	9893.00	178074.00	14.5%	-	203894.73
06	HD/1.3 Megapixel or above /720P Bullet Camera Equipped with IR LED Waterproof Dome Network Camera 3.6 mm / 6.0 mm / 8.0 mm fixed lens fixed lens with POE enabled.	--do--	03 Nos.	9893.00	29679.00	14.5%	-	33982.45
07	NVR 64 Channel with software With UL certificate OR NAS with Storage capacity of minimum 30 days recording	--do--	01 Nos.	561050.00	561050.00	14.5%	-	642402.25
08	Desktop Computer (64Bit) Core-i5 1TB HDD, 16GBRAM , VGA Cards of 2GB, OS Windows 8.1	HP	01	1	0	5.00%	-	0.00
09	Installation & Commissioning Charges		01	70000.00	70000.00	12.36%	-	78652.00
10	4-pair, Cat6 Solid copper , 23 AWG,UTP Cable (305 mtr. Roll), Meets (ISO certified ,ETL tested 600 MHZ , with Cross (+) filler pair separator& FRPVC sheath)	Digilink / Systimax / AMP	Roll- 13 (Each roll 305 Mtrs.)	5735.00	74555.00	5.00%	-	78282.75
11	Cat 6 UTP Jack- Exceed ANSI/TIA-568-C.2 and CENELECEN 50173 & ISO/IEC 11801 standards for Category 6/Class E component performance & Compatible to T568A, T568B wiring pattern, and UL-940V0 Rated Plastic & ROHS Compliant.	Digilink / Systimax / AMP	120 Nos.	140.00	16800.00	5.00%	-	17640.00
12	Cat 6 UTP Patch Cord, 4-Pair with Cross	Digilink /	60	140.00	8400.00	5.00%	-	8820.00

Shri.S.Karthikeyan
Member

Shri, VijayaRagavan
Member

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Member

Shri.P.K.Tripathi
Member Secy.

Shri. Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S Evergreen Systems, Chennai

		Systimax / AMP	Nos.					
	(+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 4 ft., Gray.							
13	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systimax / AMP	60 Nos.	153.00	9180.00	5.00%	-	9639.00
14	Single Port face plate of size 3x3, with Back BOX Material should be ABS /UL94 V-0 with shutter of ABS UL94V-0 having spring shutter of stainless steel, Cover label of Acrylic UL94V-0.	Digilink / Systimax / AMP	60 Nos.	122.00	7320.00	5.00%	-	7686.00
15	Cat 6, 24-port Unloaded, 1U Modular Jack Panel with labels and clear label covers and rear cable manager-ISO certified, ETL tested 600 MHZ	Digilink / Systimax / AMP	09 Nos.	1770.00	15930.00	5.00%	-	16726.50
16	Cat 6 SFTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory crimped& Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systimax / AMP	10 Nos.	378.00	3780.00	5.00%	-	3969.00
17	OS2 -Low water Peak Fiber Cable 6F core Loose Tube (Unitube) CSTA SM with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fiber core. With an operational temperature of -300C to+700C	Digilink / Systimax / AMP	3000 Mtr.	44.00	132000.00	5.00%	-	138600.00
18	SC-SC / SC to LC SM Duplex - 3m Patch Cards with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fibre core.	Digilink / Systimax / AMP	35 Nos.	1404.00	49140.00	5.00%	-	51597.00
19	6 Fiber SC-Style, Singlemode, 19-inch	Digilink /	09	6208.00	55872.00	5.00%	-	58665.60

Shri.S.Kartheikeyan
Member

Shri,Vijayaragavan
Member

Dr.K.Balabaskar
Member

Shri.P.K.Tripathi
Member Secy.

Shri. Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S Evergreen Systems, Chennai

		Systimax / AMP	Nos.					
	Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.							
20	24 Fibre SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	04 Nos.	15078.00	60312.00	5.00%	-	63327.60
21	6 Fibre SC-Style, Singlemode, Compact LIU, RoHS Compliant Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	07 Nos.	5238.00	36666.00	5.00%	-	38499.30
22	Smart Rack 42U, 800/1000D with Front & Rear Perforated Door with handle lock, 1 Shelf 725mm, castors and mounting hardware packet of 20, RCC loops, PDU 14 sockets (1).	Digilink / Systimax / AMP	01 No.	49594.00	49594.00	14.50%	-	56785.13
23	FLEXIBOX 19", 6U/500MMD 1 SEGN with front glass door cam lock, (1) PDU 6x5Aamp and 1.5meter feed cable and 3 pin plug, (1) shelf 255m, (1) Fan 203v 90 cfm, (1) cable manager 1U pvc loops, Hardware pkt of 10 (Assembled)	Digilink / Systimax / AMP	09 Nos.	5592.00	50328.00	14.50%	-	57625.56
24	HDPE Pipe - 2" / 3"	Finollex/Equiv	1500	130.00	195000.00	5.00%	-	204750.00

Shri.S.Karthikeyan
Member

Shri, VijayaRagavan
Member

Dr. K. Balabaskar
Member

Shri. P. K. Tripathi
Member Secy.

Shri. Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S Evergreen Systems, Chennai

	Material	Quantity	Rate	Amount	Percentage	Total
25	HDPE Pipe - 1"	1500 Mtr.	65.00	97500.00	5.00%	102375.00
26	1 inch PVC pipe and channel	1000 Mtr.	35.00	35000.00	5.00%	36750.00
27	Electrical wiring with Armoured Cable and cable laying in meters. Electrical Wire specification : 2.5 sq mm wire, 3 core, Armoured cable, Copper wire.	1000 Mtr.	98.00	98000.00	5.00%	102900.00
28	Supply and Installation of weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's and to keep Stabilizer for power supply to Camera.	20 Nos.	1347.00	26940.00	14.50%	30846.30
29	55" LED DISPLAY Resolution : 1920 x 1080, High Contrast Ratio	02 Nos.	104322.00	208644.00	14.50%	238897.38
30	22" LCD DISPLAY Resolution : 1920*1080 Contrast Ratio : 4000:1	01 Nos.	17811.00	17812.00	14.50%	20393.59
31	Laying of Armoured OFC Cable - (Single Mode/Multi mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor Armoured OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for laying of 6 Core Outdoor Armoured OFC Cable.	3000 Mtr.	105.00	315000.00	12.36%	353934.00
32	Fibre Splicing Charges.	100 Nos.	264.00	26400.00	12.36%	29663.04
33	POLE for outdoor camera, Supply and Erection of Pole (for Installation of Surveillance Camera) includes, Pole charges and Civil works (15 Feet height, 4 inches dia, 3 feet will go under the ground out of it 2 feet will be covered with concrete pillar and balance 12 feet will remain	07 Nos.	8115.00	56805.00	12.36%	63826.00

Shri. S. Karthikeyan
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Director

M/S Evergreen Systems, Chennai

	outside)											
34	L2 - Smart switch 24 port POE switch - 10/100 base T with 2 SFP port.	Avaya/Cisco	10 Nos.	22719.00	227190.00	5.00%	-	238549.50				
35	L3 24 port Gigabit managed switch with min 12 SFP port and 12 -10/100/1000 Base T port.	Avaya/Cisco	01 Nos.	335981.00	335981.00	5.00%	-	352780.00				
36	Single Mode Fibre transiver -1000 Base LX.		24 Nos.	3981.00	95544.00	5.00%	-	100321.20				
37	Fibre to copper Media converter -100 Mbps - Industrial grade type.		16 Nos.	2492.00	39872.00	5.00%	-	41865.60				
38	RJ 45- Connectors/screws/clamps and other Accessories	--	Lump sum	6735.00	6735.00	14.50%	-	7711.57				
39	Light guide Interconnect unit (LIU)	Digilink	Lump sum	0	0	14.50%	-	0.00				
40	5KVA online UPS with 120 min backup	APC	01Nos.	195051.00	195051.00	14.50%	-	223333.39				
41	Power Distribution Box, Circuit Breakers, Socket Strip etc.	--	Lump sum	13471.00	13471.00	14.50%	-	15424.29				
							Total Amount	57,47,930.00				

Shri.S.Karthikeyan
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Shri.P.K.Tripathi
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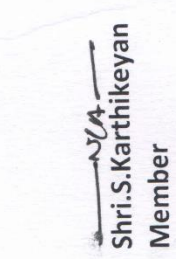
Shri. Nachiketa Rout
Chairperson

DR (Admin)

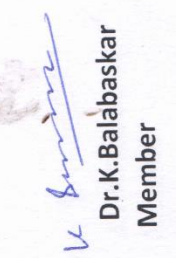
Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

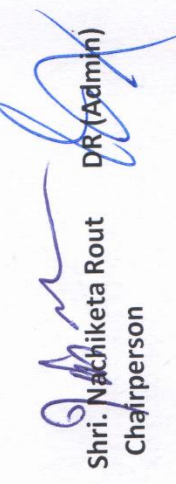
Sl. No	Item Description	Make / Model	Qty. Req.	Cost per unit	Total	Taxes applicable	Any other	Total
01	Indoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 18 x optical zoom or better, 1/3" MOS/ CMOS / CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted / Ceiling mount/ Housing . It Shall be UL Listed	Samsung, Sony, LG, Bosch, Panasonic, Honeywell, Pelco.	03 Nos.	70152.00	210456.00	14.50.00	-	240973.00
02	Outdoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 36x optical zoom or better, 1/4" MOS/ CMOS/ CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted/ Ceiling mount. It Shall be UL Listed	--do--	05 Nos.	150855.00	754275.00	14.50.00	-	863645.00
03	Indoor Fixed Dome camera with 1.3 Megapixel or above, Colour 1/3" fixed Dome POE camera, with HD/1,280 x 960 H.264 Resolution Camera with 2x Extra Zoom and minimum Illumination of 0.05 lx and wide angle of 104 degree view. It Shall be UL listed.	--do--	31 Nos.	23401	725431.00	14.50.00	-	830619.00
04	HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic IR camera with 1/3 type sensor, User modes, Day/Night, BLC, DNR, WDR, SD card slot, POE, 3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA)), IP66rated housing and wall/pole mount bracket as per the required. Inbuilt Night vision with IR LEDs.	--do--	01 Nos.	71380.00	71380.00	14.50.00	-	81731.00

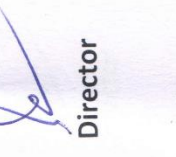

 Shri.S.Karthekeyan
 Member


 Shri,VijayaRagavan
 Member


 Dr.K.Balabaskar
 Member


 Shri.P.K.Tripathi
 Member Secy.


 Shri. Nachiketa Rout
 Chairperson


 Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

05	HD/1.3 Megapixel or above /720P Waterproof Mini Dome Camera Equipped with IR LED Waterproof Dome Network Camera 2.8 mm / 3.6 mm / 6.0 mm fixed lens with POE enabled.	--do--	18 Nos.	9896.00	178128.00	14.50.00	-	203957.00
06	HD/1.3 Megapixel or above /720P Bullet Camera Equipped with IR LED Waterproof Dome Network Camera 3.6 mm / 6.0 mm / 8.0 mm fixed lens fixed lens with POE enabled.	--do--	03 Nos.	9895.00	29685.00	14.50.00	-	33990.00
07	NVR 64 Channel with software With UL certificate OR NAS with Storage capacity of minimum 30 days recording	--do--	01 Nos.	561060.00	561060.00	14.50.00	-	642414.00
08	Desktop Computer (64Bit) Core-i5 1TB HDD, 16GBRAM, VGA Cards of 2GB, OS Windows 8.1	Not Required since we quoted NVR	01	--	--	5.00.00	-	0.00
09	Installation & Commissioning Charges		01	75000.00	75000.00	12.36.00	-	84270.00
10	4-pair, Cat6 Solid copper, 23 AWG,UTP Cable (305 mtr. Roll), Meets (ISO certified ,ETL tested 600 MHZ , with Cross (+) filler pair separator& FRPVC sheath)	Digilink / Systemax / AMP	Roll- 13 (Each roll 305 Mtrs.)	5734.00	74542.00	5.00.00	-	78270.00
11	Cat 6 UTP Jack- Exceed ANSI/TIA-568-C.2 and CENELECEN 50173 & ISO/IEC 11801 standards for Category 6/Class E component performance & Compatible to T568A, T568B wiring pattern, and UL-940V0 Rated Plastic & ROHS Compliant.	Digilink / Systemax / AMP	120 Nos.	141.00	16920.00	5.00.00	-	17766.00
12	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 4 ft., Gray.	Digilink / Systemax / AMP	60 Nos.	141.00	8460.00	5.00.00	-	8883.00

Shri.S.Karthikeyan
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Chairperson

Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

13	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 7 ft, Gray.	Digilink / Systimax / AMP	60 Nos.	152.00	9120.00	5.00.00	-	9576.00
14	Single Port face plate of size 3x3, with Back BOX Material should be ABS /UL94 V-0 with shutter of ABS UL94V-0 having spring shutter of stainless steel, Cover label of Acrylic UL94V-0.	Digilink / Systimax / AMP	60 Nos.	123.00	7380.00	5.00.00	-	7749.00
15	Cat 6, 24-port Unloaded, 1U Modular Jack Panel with labels and clear label covers and rear cable manager-ISO certified ,ETL tested 600 MHZ	Digilink / Systimax / AMP	09 Nos.	1768.00	15912.00	5.00.00	-	16708.00
16	Cat 6 SFTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory crimped& Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systimax / AMP	10 Nos.	376.00	3760.00	5.00.00	-	3948.00
17	OS2 -Low water Peak Fiber Cable 6F core Loose Tube (Unitube) CSTA SM with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fiber core. With an operational temperature of - 300C to+700C	Digilink / Systimax / AMP	3000 Mtr.	45.00	135000.00	5.00.00	-	141750.00
18	SC-SC / SC to LC SM Duplex - 3m Patch Cards with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fibre core.	Digilink / Systimax / AMP	35 Nos.	1403.00	49105.00	5.00.00	-	51561.00
19	6 Fiber SC-Style, Singlemode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style	Digilink / Systimax / AMP	09 Nos.	6211.00	55899.00	5.00.00	-	58694.00

MA
Shri.S.Karthikeyan
Member

Shri,VijayaRagavan
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Shri.P.X.Tripathi
Member Secy.


Shri Nachiketa Rout
Chairperson

DR (Admin)


Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

	Pigtails.								
20	24 Fibre SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	04 Nos.	15083.00	60332.00	5.00.00	-	63349.00	
21	6 Fibre SC-Style, Single mode, Compact LIU, RoHS Compliant Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	07 Nos.	5241.00	36687.00	5.00.00	-	38522.00	
22	Smart Rack 42U, 800/1000D with Front & Rear Perforated Door with handle lock, 1 Shelf 725mm, castors and mounting hardware packet of 20, RCC loops , PDU 14 sockets (1).	Digilink / Systimax / AMP	01 No.	49593.00	49593.00	14.50.00	-	56784.00	
23	FLEXIBOX 19", 6U/500MMD 1 SECN with front glass door cam lock, (1) PDU 6x5Aamp and 1.5meter feed cable and 3 pin plug, (1) shelf 255m, (1) Fan 203v 90 cfm, (1)cable manager 1U pvc loops, Hardware pkt of 10 (Assembled)	Digilink / Systimax / AMP	09 Nos.	5594.00	50346.00	14.50.00	-	57647.00	
24	HDPE Pipe - 2" / 3"	Finolex/Equivalent	1500 Mtr.	132.00	198000.00	5.00.00	-	207900.00	
25	HDPE Pipe - 1"	Finolex/Equivalent	1500 Mtr.	68.00	102000.00	5.00.00	-	107100.00	
26	1 inch PVC pipe and channel	Finolex/Equivalent	1000 Mtr.	37.00	37000.00	5.00.00	-	38850.00	
27	Electrical wiring with Armoured Cable and cable laying in meters. Electrical Wire	Finolex/Equivalent	1000 Mtr.	102.00	102000.00	5.00.00	-	107100.00	


Shri. S. Karthikeyan
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Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

	specification : 2.5 sq mm wire, 3 core, Armoured cable, Copper wire.								
28	Supply and Installation of weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's and to keep Stabilizer for power supply to Camera.	20 Nos.	1348.00	26960.00	14.50.00	-			30870.00
29	55" LED DISPLAY Resolution : 1920 x 1080, High Contrast Ratio	02 Nos.	104325.00	208650.00	14.50.00	-			238905.00
30	22"LCD DISPLAY Resolution : 1920*1080 Contrast Ratio : 4000:1	01 Nos.	17904.00	17904.00	14.50.00	-			20501.00
31	Laying of Armoured OFC Cable - (Single Mode/Multi mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor Armoured OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for laying of 6 Core Outdoor Armoured OFC Cable.	3000 Mtr.	107.00	321000.00	12.36.00	-			360676.00
32	Fibre Splicing Charges.	100 Nos.	265.00	26500.00	12.36.00	-			29776.00
33	POLE for outdoor camera, Supply and Erection of Pole (for Installation of Surveillance Camera) includes, Pole charges and Civil works (15 Feet height, 4 inches dia, 3 feet will go under the ground out of it 2 feet will be covered with concrete pillar and balance 12 feet will remain outside)	07 Nos.	8117.00	56819.00	12.36.00	-			63842.00
34	L2 - Smart switch 24 port POE switch - 10/100 base T with 2 SFP port.	10 Nos.	22718.00	227180.00	5.00.00	-			238539.00
35	L3 24 port Gigabit managed switch with min 12 SFP port and 12 -10/100/1000 Base T port.	01 Nos.	336261.00	336261.00	5.00.00	-			353075.00
36	Single Mode Fibre transiver -1000 Base LX.	24 Nos.	3980.00	95520.00	5.00.00	-			100296.00
37	Fibre to copper Media converter -100 Mbps	16	2490.00	39840.00	5.00.00	-			41832.00

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Member Secy.

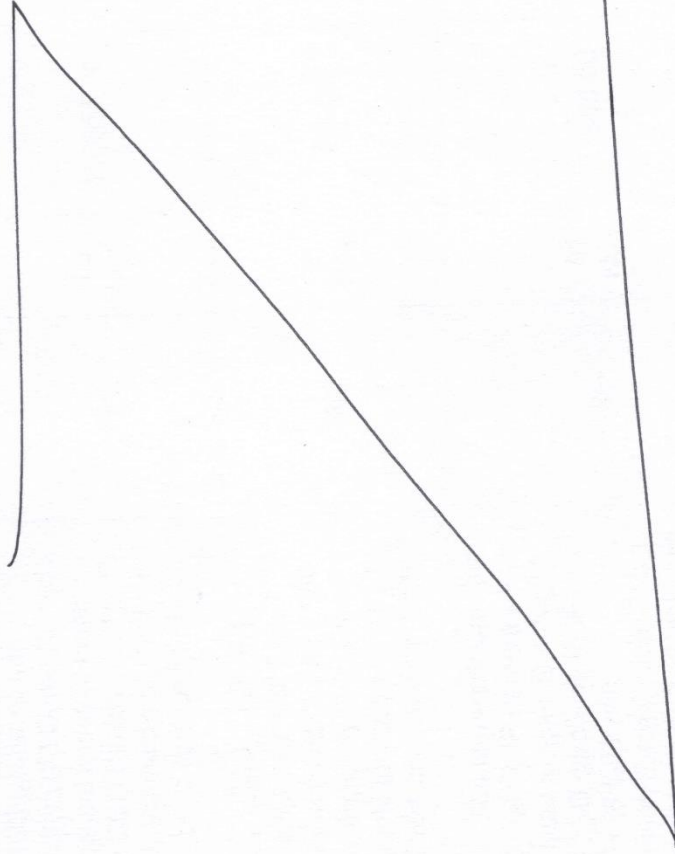
Shri. Nachiketa Rout
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DR (Admin)

Director

M/S YERCAUD ELECTRONICS PRIVATE LTD Chennai

			Nos.					
	- Industrial grade type.							
38	RJ 45- Connectors/screws/clamps and other Accessories	--	Lump sum	6800.00	6800.00	14.50.00	-	7786.00
39	Light guide Interconnect unit (LIU)	Digilink	Lump sum	--	--	14.50.00	-	0.00
40	5KVA online UPS with 120 min backup	APC	01Nos.	195510.00	195510.00	14.50.00	-	223859.00
41	Power Distribution Box, Circuit Breakers, Socket Strip etc.	--	Lump sum	13500.00	13500.00	14.50.00	-	15458.00
Total amount								57,79,171.00



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Shri.S.Karthikeyan
Member

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Shri,VijayaRagavan
Member

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Dr.K.Balabaskar
Member

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Shri.P.K.Tripathi
Member Secy.

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Shri,Nachiketa Rout
Chairperson

[Signature]
Director

[Signature]
DR (Admin)

M/S CMS COMPUTERS LTD, Chennai

Sl. No	Item Description	Make / Model	Qty. Req.	Cost per unit	Total	Taxes applicable	Any other	Total
01	Indoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 18 x optical zoom or better , 1/3" MOS/ CMOS / CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted / Ceiling mount/ Housing . It Shall be UL Listed	Samsung, Sony, LG, Bosch, Panasonic, Honeywell, Pelco.	03 Nos.	81843.75	245531.25	12.50%	-	276223.00
02	Outdoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 36x optical zoom or better , 1/4" MOS/ CMOS/ CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted/ Ceiling mount. It Shall be UL Listed	--do--	05 Nos.	174493.75	872468.75	12.50%	-	981527.00
03	Indoor Fixed Dome camera with 1.3 Megapixel or above, Colour 1/3" fixed Dome POE camera, with HD/1,280 x 960 H.264 Resolution Camera with 2x Extra Zoom and minimum Illumination of 0.05 lx and wide angle of 104 degree view. It Shall be UL listed.	--do--	31 Nos.	27969.00	867042.10	12.50%	-	975422.00
04	HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic IR camera with 1/3 type sensor , User modes, Day/Night, BLC, DNR, WDR , SD card slot, POE, 3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA)), IP66rated housing and wall/pole mount bracket as per the required. Inbuilt Night vision with IR LEDs.	--do--	01 Nos.	82842.00	82842.00	12.50%	-	93197.00
05	Waterproof Mini Dome Camera Equipped with IR LED Waterproof Dome Network HD/1.3 Megapixel or above /720P	--do--	18 Nos.	11478.00	206604.00	12.50%	-	232429.50

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Director

M/S CMS COMPUTERS LTD, Chennai

	Camera 2.8 mm / 3.6 mm / 6.0 mm fixed lens with POE enabled.											
06	HD/1.3 Megapixel or above /720P Bullet Camera Equipped with IR LED Waterproof Dome Network Camera 3.6 mm / 6.0 mm / 8.0 mm fixed lens fixed lens with POE enabled.	--do--	03 Nos.	11478.00	34434.00	12.50%	-	-	38738.25			
07	NVR 64 Channel with software With UL certificate OR NAS with Storage capacity of minimum 30 days recording	--do--	01 Nos.	587500	587500	12.50%	-	-	660937.50			
08	Desktop Computer (64Bit) Core-i5 1TB HDD, 16GB RAM, VGA Cards of 2GB, OS Windows 8.1	HP	01	100000.00	100000.00	5.00%	-	-	105000.00			
09	Installation & Commissioning Charges		01	403590.00	403590.00	12.36%	-	-	453474.00			
10	4-pair, Cat6 Solid copper, 23 AWG, UTP Cable (305 mtr. Roll), Meets (ISO certified , ETL tested 600 MHZ, with Cross (+) filler pair separator & FRPVC sheath)	Digilink / Systemax / AMP	Roll- 13 (Each roll 305 Mtrs.)	23.00	91195.00	5.00%	-	-	95755.00			
11	Cat 6 UTP Jack- Exceed ANSI/TIA-568-C.2 and CENELECEN 50173 & ISO/IEC 11801 standards for Category 6/Class E component performance & Compatible to T568A, T568B wiring pattern, and UL-94V0 Rated Plastic & ROHS Compliant.	Digilink / Systemax / AMP	120 Nos.	420.00	50400.00	5.00%	-	-	52920.00			
12	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 4 ft., Gray.	Digilink / Systemax / AMP	60 Nos.	211.00	12660.00	5.00%	-	-	13293.00			
13	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systemax / AMP	60 Nos.	211.00	12660.00	5.00%	-	-	13293.00			
14	Single Port face plate of size 3x3, with Back BOX Material should be ABS /UL94 V-0	Digilink / Systemax /	60 Nos.	435.00	26100.00	5.00%	-	-	27405.00			

MA
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		AMP							
	with shutter of ABS UL94V-0 having spring shutter of stainless steel, Cover label of Acrylic UL94V-0.	AMP							
15	Cat 6, 24-port Unloaded, 1U Modular Jack Panel with labels and clear label covers and rear cable manager-ISO certified ,ETL tested 600 MHZ	Digilink / Systemax / AMP	09 Nos.	1875.00	16875.00	5.00%	-	17719.00	
16	Cat 6 SFTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory crimped& Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systemax / AMP	10 Nos.	236.00	2360.00	5.00%	-	2478.00	
17	OS2 -Low water Peak Fiber Cable 6F core Loose Tube (Unitube) CSTA SM with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fiber core. With an operational temperature of -300C to+700C	Digilink / Systemax / AMP	3000 Mtr.	33.00	99000.00	5.00%	-	103950.00	
18	SC-SC / SC to LC SM Duplex - 3m Patch Cards with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fibre core.	Digilink / Systemax / AMP	35 Nos.	2500.00	87500.00	5.00%	-	91875.00	
19	6 Fiber SC-Style, Singlemode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systemax / AMP	09 Nos.	2500.00	22500.00	5.00%	-	23625.00	
20	24 Fibre SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates,Couplers with SC-Style Pigtails.	Digilink / Systemax / AMP	04 Nos.	3225.00	12900.00	5.00%	-	13545.00	

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21	6 Fibre SC-Style, Singlemode, Compact LIU, RoHS Compliant Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates,Couplers with SC-Style Pigtaills.	Digilink / Systimax / AMP	07 Nos.	2875.00	20125.00	5.00%	-	21131.25
22	Smart Rack 42U, 800/1000D with Front & Rear Perforated Door with handle lock, 1 Shelf 725mm, castors and mounting hardware packet of 20, RCC loops , PDU 14 sockets (1).	Digilink / Systimax / AMP	01 No.	56250.00	56250.00	12.50%	-	63281.25
23	FLEXIBOX 19", 6U/500MMD 1 SECN with front glass door cam lock, (1) PDU 6x5Aamp and 1.5meter feed cable and 3 pin plug, (1) shelf 255m, (1) Fan 203v 90 cfm, (1) cable manager 1U pvc loops, Hardware pkt of 10 (Assembled)	Digilink / Systimax / AMP	09 Nos.	5625.00	50625.00	12.50%	-	56953.00
24	HDPE Pipe - 2" / 3"	Finolex/Equivalent	1500 Mtr.	70.00	10500.00	12.50%	-	118125.00
25	HDPE Pipe - 1"	Finolex/Equivalent	1500 Mtr.	63.00	94500.00	12.50%	-	106312.50
26	1 inch PVC pipe and channel	Finolex/Equivalent	1000 Mtr.	25.00	25000.00	5.00%	-	26250.00
27	Electrical wiring with Armoured Cable and cable laying in meters. Electrical Wire specification : 2.5 sq mm wire, 3 core, Armoured cable, Copper wire.	Finolex/Equivalent	1000 Mtr.	100.00	100000.00	5.00%	-	105000.00
28	Supply and Installation of weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's and to keep Stabilizer for power supply to Camera.		20 Nos.	1250.00	25000.00	12.50%	-	28125.00
29	55" LED DISPLAY Resolution : 1920 x 1080, High Contrast Ratio	Samsung / Sony/LG	02 Nos.	216675.00	433350.00	5.00%	-	455018.00
30	22"LCD DISPLAY Resolution : 1920*1080Contrast Ratio : 4000:1	Samsung / Sony/LG	01 Nos.	12285.00	12285.00	5.00%	-	12899.00

Shri.S.Karthikeyan
Member

Shri,VijayaRagavan
Member

Dr.K.Balabaskar
Member


Shri.P.K.Tripathi
Member Secy.

Shri.Nachiketa Rout
DR (Admin)
Chairperson

Director

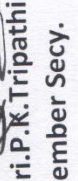
MIS CMS COMPUTERS LTD, Chennai

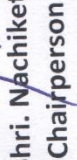
31	Laying of Armoured OFC Cable – (Single Mode/Multi mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor Armoured OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for laying of 6 Core Outdoor Armoured OFC Cable.	3000 Mtr.	24.00	72000.00	12.36%	-	80899.00
32	Fibre Splicing Charges.	100 Nos.	240.00	24000.00	12.36%	-	26966.00
33	POLE for outdoor camera, Supply and Erection of Pole (for Installation of Surveillance Camera) includes, Pole charges and Civil works (15 Feet height, 4 inches dia, 3 feet will go under the ground out of it 2 feet will be covered with concrete pillar and balance 12 feet will remain outside)	07 Nos.	12150.00	85050.00	5.00%	-	89303.00
34	L2 - Smart switch 24 port POE switch - 10/100 base T with 2 SFP port.	10 Nos.	54000.00	540000.00	5.00%	-	567000.00
35	L3 24 port Gigabit managed switch with min 12 SFP port and 12 -10/100/1000 Base T port.	01 Nos.	270000.00	270000.00	5.00%	-	283500.00
36	Single Mode Fibre transiver -1000 Base LX.	24 Nos.	6750.00	162000.00	5.00%	-	170100.00
37	Fibre to copper Media converter -100 Mbps - Industrial grade type.	16 Nos.	13500.00	216000.00	5.00%	-	226800.00
38	RJ 45- Connectors/screws/clamps and other Accessories	Lump sum	24570.00	24570.00	5.00%	-	25799.00
39	Light guide Interconnect unit (LIU)	Lump sum	292950	292950	5.00%	-	307598.00
40	5KVA online UPS with 120 min backup	01 Nos.	94500.00	94500.00	5.00%	-	99225.00
41	Power Distribution Box, Circuit Breakers, Socket Strip etc.	Lump sum	67500.00	67500.00	5.00%	-	70875.00
Total amount							72,13,965.75


Shri. S. Karthikeyan
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

Shri. Vijaya Ragavan
Member


Dr. K. Balabaskar
Member


Shri. P. K. Tripathi
Member Secy.


Shri. Nachiketa Rout
Chairperson


DR (Admin)


Director

M/S KELTRON, CHENNAI

Sl. No	Item Description	Make / Model	Qty. Req.	Cost per unit	Total	Taxes applicable	Any other	Total
01	Indoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 18 x optical zoom or better, 1/3" MOS/ CMOS / CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted / Ceiling mount/ Housing . It Shall be UL Listed	Samsung, Sony, LG, Bosch, Panasonic, Honeywell, Pelco.	03 Nos.	79699/-	239097/-	14.50%	-	273766.07
02	Outdoor IP PTZ POE cameras with HD/1,280 x 960 H.264 PTZ Dome Network Camera with 36x optical zoom or better, 1/4" MOS/ CMOS/ CCD Sensor, WDR, Bidirectional Audio, SD card slot, Wall Mounted/ Ceiling mount. It Shall be UL Listed	--do--	05 Nos.	173809/-	869045/-	14.50%	-	995056.53
03	Indoor Fixed Dome camera with 1.3 Megapixel or above, Colour 1/3" fixed Dome POE camera, with HD/1,280 x 960 H.264 Resolution Camera with 2x Extra Zoom and minimum Illumination of 0.05 lx and wide angle of 104 degree view. It Shall be UL listed.	--do--	31 Nos.	31070/-	963170/-	14.50%	-	1102829.65
04	HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic IR camera with 1/3 type sensor , User modes, Day/Night, BLC, DNR, WDR , SD card slot, POE, 3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA)), IP66rated housing and wall/pole mount bracket as per the required. Inbuilt Night vision with IR LEDs.	--do--	01 Nos.	77672/-	77672/-	14.50%	-	88934.44

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05	HD/1.3 Megapixel or above I720P Waterproof Mini Dome Camera Equipped with IR LED Waterproof Dome Network Camera 2.8 mm / 3.6 mm / 6.0 mm fixed lens with POE enabled.	--do--	18 Nos.	11266/-	202788/-	14.50%	-	232192.26
06	HD/1.3 Megapixel or above I720P Bullet Camera Equipped with IR LED Waterproof Dome Network Camera 3.6 mm / 6.0 mm / 8.0 mm fixed lens with POE enabled.	--do--	03 Nos.	11266/-	33798/-	14.50%	-	38698.71
07	NVR 64 Channel with software With UL certificate OR NAS with Storage capacity of minimum 30 days recording	--do--	01 Nos.	486195/-	486195/-	14.50%	-	556693.28
08	Desktop Computer (64Bit) Core-i5 1TB HDD, 16GBRAM , VGA Cards of 2GB, OS Windows 8.1	HP	01	105231/-	105231/-	5.00%	-	110492.55
09	Installation & Commissioning Charges		01	11858/-	11858/-	12.36%	-	13323.65
10	4-pair, Cat6 Solid copper , 23 AWG,UTP Cable (305 mtr. Roll), Meets (ISO certified ,ETL tested 600 MHZ , with Cross (+) filler pair separator& FRPVC sheath)	Digilink / Systemax / AMP	Roll- 13 (Each roll 305 Mtrs.)	6878/-	89414/-	14.50%	-	102379.03
11	Cat 6 UTP Jack- Exceed ANSI/TIA-568-C.2 and CENELECEN 50173 & ISO/IEC 11801 standards for Category 6/Class E component performance & Compatible to T568A, T568B wiring pattern, and UL-940V0 Rated Plastic & ROHS Compliant.	Digilink / Systemax / AMP	120 Nos.	144/-	17280/-	5.00%	-	18144.00
12	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 4 ft., Gray.	Digilink / Systemax / AMP	60 Nos.	144/-	8640/-	5.00%	-	9072.00

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Member Secy.

Shri. Nachiketa Rout
Chairperson

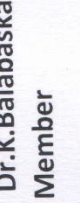
Director

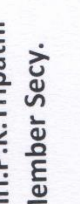
M/S KELTRON, CHENNAI

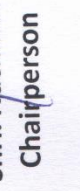
13	Cat 6 UTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory Moulded & Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systemax / AMP	60 Nos.	150/-	9000/-	5.00%	-	9450.00
14	Single Port face plate of size 3x3, with Back BOX Material should be ABS /UL94 V-0 with shutter of ABS UL94V-0 having spring shutter of stainless steel, Cover label of Acrylic UL94V-0.	Digilink / Systemax / AMP	60 Nos.	89/-	5340/-	14.50%	-	6114.30
15	Cat 6, 24-port Unloaded, 1U Modular Jack Panel with labels and clear label covers and rear cable manager-ISO certified, ETL tested 600 MHZ	Digilink / Systemax / AMP	09 Nos.	1755/-	15795/-	5.00%	-	16584.75
16	Cat 6 SFTP Patch Cord, 4-Pair with Cross (+) filler pair separator FRPVC sheath, with Factory crimped& Same Colour boot, Non-plenum (CM rated)- 7 ft., Gray.	Digilink / Systemax / AMP	10 Nos.	480/-	4800/-	5.00%	-	5040.00
17	OS2 -Low water Peak Fiber Cable 6F core Loose Tube (Unitube) CSTA SM with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fiber core. With an operational temperature of - 300C to+700C	Digilink / Systemax / AMP	3000 Mtr.	38/-	114/-	5.00%	-	119700.00
18	SC-SC / SC to LC SM Duplex - 3m Patch Cards with Corning SMF-28e+ Full Spectrum with Improved Microbend Performance Fibre core.	Digilink / Systemax / AMP	35 Nos.	1162/-	40670/-	5.00%	-	42703.50
19	6 Fiber SC-Style, Singlemode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style	Digilink / Systemax / AMP	09 Nos.	6641/-	59769/-	5.00%	-	62757.45


Shri.S.Karthikeyan
Member


Shri,VijayaRagavan
Member


Dr.K.Balabaskar
Member


Shri.P.K.Tripathi
Member Secy.

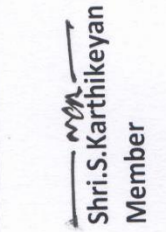

Shri. Nachiketa Rout
Chairperson

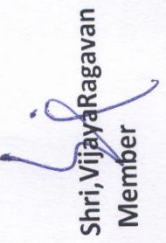

DR (Admin)

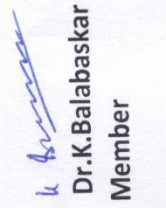

Director

M/S KELTRON, CHENNAI

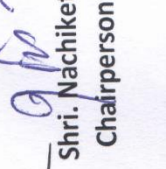
	Pigtails.	Digilink / Systimax / AMP	04 Nos.	13637/-	54548/-	5.00%	-	57275.40
20	24 Fibre SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, is RoHS Compliant Aluminium Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	07 Nos.	6640/-	46480/-	5.00%	-	48804.00
21	6 Fibre SC-Style, Single mode, Compact LIU, RoHS Compliant Powder Coted Metal Box and Splice tray & Fire Retargeted Cable Spools. Fully Loaded with SC adapter Plates, Couplers with SC-Style Pigtails.	Digilink / Systimax / AMP	01 No.	55171/-	55171/-	5.00%	-	57929.55
22	Smart Rack 42U, 800/1000D with Front & Rear Perforated Door with handle lock, 1 Shelf 725mm, castors and mounting hardware packet of 20, RCC loops, PDU 14 sockets (1).	Digilink / Systimax / AMP	09 Nos.	6878/-	61902/-	14.50%	-	70877.79
23	FLEXIBOX 19", 6U/500MMD 1 SECN with front glass door cam lock, (1) PDU 6x5Aamp and 1.5meter feed cable and 3 pin plug, (1) shelf 255m, (1) Fan 203v 90 cfm, (1) cable manager 1U pvc loops, Hardware pkt of 10 (Assembled)	Finolx/Equip alent	1500 Mtr.	96/-	144000/-	14.50%	-	164880.00
24	HDPE Pipe - 2" / 3"	Finolx/Equip alent	1500 Mtr.	40/-	60000/-	14.50%	-	68700.00
25	HDPE Pipe - 1"	Finolx/Equip alent	1000 Mtr.	32/-	32000/-	-	-	36640.00
26	1 inch PVC pipe and channel	Finolx/Equip alent	1000 Mtr.	152/-	152000/-	14.50%	-	174040.00
27	Electrical wiring with Armoured Cable and	Finolx/Equip alent	1000 Mtr.	152/-	152000/-	14.50%	-	174040.00


Shri. S. Karthikeyan
Member


Shri. VijayaRagavan
Member


Dr. K. Balabaskar
Member


Shri. P. K. Tripathi
Member Secy.


Shri. Nachiketa Rout
Chairperson


DR (Admin)


Director

M/S KELTRON, CHENNAI

	alent	Mtr.						
28	cable laying in meters. Electrical Wire specification : 2.5 sq mm wire, 3 core, Armoured cable, Copper wire. Supply and Installation of weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's and to keep Stabilizer for power supply to Camera.	20 Nos.	3320/-	66400/-	14.50%	-	76028.00	
29	55" LED DISPLAY Resolution : 1920 x 1080, High Contrast Ratio	02 Nos.	109097/-	218194/-	14.50%	-	249832.13	
30	22"LCD DISPLAY Resolution : 1920*1080 Contrast Ratio : 4000:1	01 Nos.	17195/-	17195/-	14.50%	-	19688.28	
31	Laying of Armoured OFC Cable – (Single Mode/Multi mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor Armoured OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for laying of 6 Core Outdoor Armoured OFC Cable.	3000 Mtr.	148/-	444000/-	12.36%	-	498878.40	
32	Fibre Splicing Charges.	100 Nos.	273/-	27300/-	12.36%	-	30674.28	
33	POLE for outdoor camera, Supply and Erection of Pole (for Installation of Surveillance Camera) includes, Pole charges and Civil works (15 Feet height, 4 inches dia, 3 feet will go under the ground out of it 2 feet will be covered with concrete pillar and balance 12 feet will remain outside)	07 Nos.	19566/-	136962/-	14.50%	-	156821.49	
34	L2 - Smart switch 24 port POE switch - 10/100 base T with 2 SFP port.	10 Nos.	21737/-	217310/-	5.00%	-	228175.50	
35	L3 24 port Gigabit managed switch with min 12 SFP port and 12 -10/100/1000 Base T port.	01 Nos.	499103/-	499103/-	5.00%	-	524058.15	
36	Single Mode Fibre transiver -1000 Base LX.	24 Nos.	5752/-	138048/-	5.00%	-	144950.00	

Shri.S.Karthikeyan
Member

Shri,Vijayaragavan
Member

Dr.K.Balabaskar
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Shri.P.K.Tripathi
Member Secy.

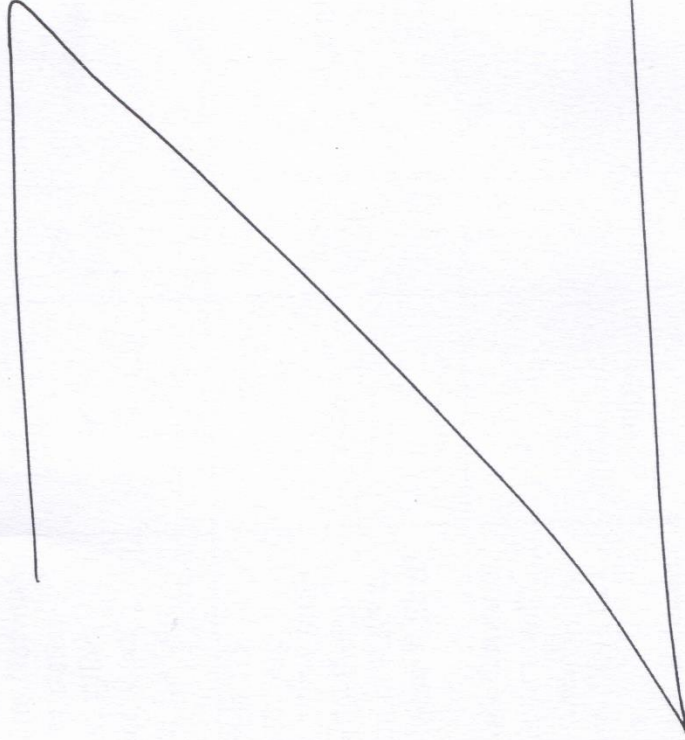
Shri Nachiketa Rout
Chairperson

DR (Admin)

Director

M/S KELTRON, CHENNAI

37	Fibre to copper Media converter -100 Mbps - Industrial grade type.	16 Nos.	4625/-	74000/-	5.00%	-	77700.00
38	RJ 45- Connectors/screws/clamps and other Accessories	Lump sum	5930	5930	5.00%	-	6226.50
39	Light guide Interconnect unit (LIU)	Lump sum	3558/-	3558/-	5.00%	-	3735.90
40	5KVA online UPS with 120 min backup	01 Nos.	141912/-	141912/-	5.00%	-	149007.60
41	Power Distribution Box, Circuit Breakers, Socket Strip etc.	Lump sum	16008/-	16008/-	14.50%	-	18329.16
Total amount							66,67,184.70



MA
Shri.S.Karthikeyan
Member

Shri,VijayaRagavan
Member

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