

SCOPE OF WORK & SPECIFICATIONS OF CAMERA AGAINST Quotation
Notice No.01/2022-23

The Lowest Quotations are invited for Supply, Installation of 4G/5G SIM based IP CC Cameras at lakes in GHMC jurisdiction on or before 04.02.2023 from agencies who are in the field of Surveillance system in the following format with the scope & specifications as detailed below.

I. PRICE BREAK UP:

| Sl. No. | Item Description | Estimated Quantity (Nos.) | Base Price Excl. GST (INR) | Total Amount (INR) |
|--|---|---------------------------|----------------------------|--------------------|
| I. Capital Cost of the Project | | | | |
| I | Supply & Installation of 4G/5G-Bullet Camera as per the specifications as detailed below. (A) | | | |
| II. Data(SIM) Charges for two years | | | | |
| II | Data(SIM) Charges for two years (B) | | | |
| III. Operational Cost of the Project | | | | |
| 1 | Maintenance Charges for First Year along with Provision to view the working status of the installed Cameras. | | | |
| 2 | Maintenance Charges for Second Year along with Provision to view the working status of the installed Cameras. | | | |
| | Total Estimated Maintenance Cost (C) | | | |
| Total Estimated cost of the Project (A+B+C) | | | | |
| In Words: | | | | |

II. SCOPE OF WORK

- Supply, Installation of 4G/5G SIM based IP CC Cameras at lakes in GHMC jurisdiction. The Zone wise details of the Lakes are as tabulated below:

| Sl.No | GHMC Zone | CCTV Cameras Required |
|--------------|-----------------|-----------------------|
| 1 | LB Nagar | 153 |
| 2 | Serilingampally | 318 |
| 3 | Charminar | 142 |
| 4 | Kukatpally | 383 |
| 5 | Khairtabad | 142 |
| 6 | Secunderabad | 32 |
| Total | | 1170 |

Table A: LB Nagar Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, Designation & Mobile No | CC Cameras Required (No's) |
|--|-------------------|---------------------------------------|--|----------------------------|
| 1 | Kapra -1 | Oora Cheruvu (Kapra Cheruvu) | Sri. V. Harilal, Dy.E.E, 9989930377 | 12 |
| 2 | | Bhavaninagar Kunta | Sri. Linga Rao, A.E, 7995009086 | - |
| 3 | | Cherlapally Tank | Smt. Swaroopa, A.E, 7337364235 | 10 |
| 4 | | Mangavai Kunta / ECIL Lake | Sri. Tirumalaiah, A.E, 7331199517 | - |
| 5 | | Patel Cheruvu | Smt. P. Roopa, Dy.E.E, 90302922058 | 10 |
| 6 | | Pedda Cheruvu (Nacharam Cheruvu) | Sri. Rakesh, A.E, 7995009117 | 15 |
| 7 | Uppal - 2 | Nalla Cheruvu | Sri. Nikhil Reddy, Dy.E.E, 970t365524 | 10 |
| 8 | | Ramanthapur Cheruvu | Smt. Nagamani, Dy.E.E, 7993360313 | 6 |
| 9 | | Chinna Cheruvu | Kum. Swetha, A.E, 7995007435 | 8 |
| 10 | Hayath Nagar - 3 | Bandlaguda Cheruvu | Sri. P. Damodhar, Dy.E.E, 9866669410 | 4 |
| 11 | | Nagole Cheruvu | Sri. Y. Chandra Shekar Reddy, A.E, 7337364225 | 3 |
| 12 | | Pathulguda Lake | Sri. Mansoor, TPS, 7702774609 | 7 |
| 13 | | Chinna Cheruvu | Smt. Swapna, A.E, 8331903277 | 4 |
| 14 | | Pedda Cheruvu | Sri. CHVM. Satya Narayana, (DAO), 8919694528 | 4 |
| 15 | | Kummari Kunta | Sri. Narendra Teja, A.E.7995020445 | 7 |
| 16 | | Baathula Cheruvu | Sri. Punna Naik, Dy.E.E (Electrical), 9154296622 | 12 |
| 17 | | Bathukamma Kunta | Smt. C. (Jma, Town Planning Supervisor, 7995020398 | 10 |
| 18 | | Kaprai Cheruvu | Sri. P. Balarama Rao, Project Officer, 94928 77932 | 7 |
| 19 | LB Nagar -4 | Maddella Kunta / Bairamalguda Cheruvu | Sri. B. Kanakaiah Dy.E.E, 9704345024 | 8 |
| 20 | Saroor Nagar - 5 | Large Tank | 1. Sri. B.R. Vijay Kumar, Dy.E.E., 9000114728 & 2. Sri. B.S.D. Nagesh Babu, A.E., 7995007427 | 16 |
| LB Nagar Zone Total CC TV Cameras Requirement | | | | 153 |

Table B: Charminar Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, Designation & Mobile No | CC Cameras Required (No's) |
|--------|---------------------|------------------------------------|--|----------------------------|
| 1 | Santosh Nagar -7 | Erra Kunta | Sri T.Rakesh kumar, AEE, 9000017935 | 17 |
| 2 | Chandrayangutta -8 | Surram Cheruvu | Sri Ch. Praveen, AEE, 9030124557 | 7 |
| 3 | | Gurram Cheruvu | Sri Ch. Praveen, AEE, 9030124557 | 5 |
| 4 | | Pochamma Kunta | Sri K. Seetharama Raju, AEE, 9000115068 | 5 |
| 5 | | Salkam Cheruvu | Sri M.A.Faheem, AEE, 9989930434 | 5 |
| 6 | Rajendra Nagar - 11 | Mirlam Tank | Sri R. Rama Rao, AEE, 9440530242 | 9 |
| 7 | | Pathi Kunta | D.Viswam Kumar, AEE, 9908017193 | 7 |
| 8 | | Mamidla Kunta | D.Viswam Kumar, AEE, 9908017193 | 5 |
| 9 | | Erra Kunta | D.Viswam Kumar, AEE, 9908017193 | 6 |
| 10 | | Palle Cheruvu | D.Viswam Kumar, AEE, 9908017193 | 4 |
| 11 | | HUDA Park Lake / Bumruk Khan Dowla | D.Viswam Kumar, AEE, 9908017193 | 5 |

| | | | | |
|---|--|-------------------------------|---------------------------------|------------|
| 12 | | Ananthapadmanabha Swamy Kunta | D.Viswam Kumar, AEE, 9908017193 | 5 |
| 13 | | Talla Kunta | D.Viswam Kumar, AEE, 9908017193 | 6 |
| 14 | | Malka Cheruvu | D.Viswam Kumar, AEE, 9908017193 | 5 |
| 15 | | Appa Cheruvu | D.Viswam Kumar, AEE, 9908017193 | 5 |
| 16 | | Brahman Kunta | T.Rakesh kumar, AEE, 9000017935 | 5 |
| 17 | | Brahman Cheruvu | T.Rakesh kumar, AEE, 9000017935 | 5 |
| 18 | | Marshabai Kunta | T.Rakesh kumar, AEE, 9000017935 | 5 |
| 19 | | Noor Mohammad Cheruvu | T.Rakesh kumar, AEE, 9000017935 | 4 |
| 20 | | Suleman Cheruvu | T.Rakesh kumar, AEE, 9000017935 | 4 |
| 21 | | Bulbul Kunta | T.Rakesh kumar, AEE, 9000017935 | 5 |
| 22 | | Pale Cheruvu | T.Rakesh kumar, AEE, 9000017935 | 5 |
| 23 | | NIRD Bund 2 Lake | T.Rakesh kumar, AEE, 9000017935 | 4 |
| 24 | | NIRD Bund 3 lake | T.Rakesh kumar, AEE, 9000017935 | 4 |
| 25 | | Mulagurd Lake (PJAU) | T.Rakesh kumar, AEE, 9000017935 | 5 |
| Charminar Zone Total CC TV Cameras Requirement | | | | 142 |

Table C: Khairthabad Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, Designation & Mobile No | CC Cameras Required (No's) |
|---|--------------------|-------------------------|--|----------------------------|
| 1 | Mehdipatnam - 12 | Pedda Cheruvu | - | - |
| 2 | | Devuni Kunta | - | 8 |
| 3 | Karwan - 13 | Langer Houz Lake | - | 15 |
| 4 | | Hakeempet Lake | - | 6 |
| 5 | | Naya Quilla Talab | - | - |
| 6 | | Jamali Kunta | - | - |
| 7 | | Katora House | - | 5 |
| 8 | | Shah Hatim Talap | - | 5 |
| 9 | Khairtabad - 17 | Hussain Sagar | - | - |
| 10 | Jubilee Hills - 18 | Lotus Pond | - | 12 |
| 11 | | Ananthagani Kunta | - | 15 |
| 12 | | Bathurkunta | - | 10 |
| 13 | | Kotha Cheruvu | - | 10 |
| 14 | | Yerra Kunta | - | 8 |
| 15 | | Shikari Kunta | - | 16 |
| 16 | | Kotha Kunta | - | 16 |
| 17 | | Vatti Kunta | - | 16 |
| 18 | | Singadi Kunta | - | - |
| 19 | | Chiran Kunta | - | - |
| Khairthabad Zone Total CC TV Cameras Requirement | | | | 142 |

Table D: Seirilingampally Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, Designation & Mobile No | CC Cameras Required (No's) |
|--------|-----------------------|-------------------------|---|----------------------------|
| 1 | Seirilingampally - 20 | Durgam Cheruvu | K Jagadeeshwarudu 7995009092 | 8 |
| 2 | | Khanamet Lake | Jalander (SS) 8790522488 | 2 |
| 3 | | Rangalal Kunta | A.Gopala krishna l/c AMC, 9989930571 | 5 |
| 4 | | Konda pur Forest Lake | Y Yadagiri l/c AMC, 9989930232 | 3 |
| 5 | | Barla Kunta | Sanjay l/c AMC, 9989930217 | 6 |
| 6 | | Tammidi Kunta | Mehra ACP, 9949994053 | 6 |
| 7 | | Neerla cheruvu | Vishal (SO) 7995020428 | 5 |
| 8 | | Rangannakunta | Ramesh (SO) 940335574 | 2 |
| 9 | | Botanical Garden Lake | KVBR Park | 1 |
| 10 | | Ramamma kunta | Institutional Boundaries (Tata Institute of Fundamental Research) | 1 |
| 11 | | Chilukalakunta | Institutional Boundaries (Tata Institute of | 1 |

| | | | | | |
|----|-----------------------------------|-----------------------------------|---|---------------------------------------|----|
| | | | Fundamental Research) | | |
| 12 | Serilingampally - 20 | Peacock lake | Institutional Boundaries (Tata Institute of Fundamental Research) | 1 | |
| 13 | | Gundla kunta | Institutional Boundaries (Tata Institute of Fundamental Research) | 1 | |
| 14 | | Gunneru kunta | Institutional Boundaries (Tata Institute of Fundamental Research) | 2 | |
| 15 | | ISB Lake | Vishalakshi (DE), 9704405094 | 1 | |
| 16 | | Chintala cheruvu | Emmaar Properties | 2 | |
| 17 | | Sandappa Kunta | Emmaar Properties | 1 | |
| 18 | | TCS Snegry Park | TCS Snegry Park | 2 | |
| 19 | | Pochamma Kunta | Krishna (ALO) 9989930318 | 1 | |
| 20 | | Shanti sarovar Pond | Institutional Boundaries (in ICRISAT) | 0 | |
| 21 | | Chinna Pedda Cheruvu | N.Prashanth (AE) 7331151746 | 7 | |
| 22 | | Malkam Cheruvu | Yousuf Pasha (UBD) 9440849242 | 8 | |
| 23 | | Pedda Cheruu/Khajaguda Cheruvu | R Ramesh (AE) 7995079760 | 6 | |
| 24 | | Bhagiradamma Cheruvu | D Ramesh(AE) 9154299723 | 9 | |
| 25 | | Yellamma Cheruvu | Kiran(AE EMT) 800050592 | 7 | |
| 26 | | Thouthu Kunta | Mallikarjun Rao (Dy.EE (Ele) 9100910868 | 3 | |
| 27 | | Nallagandla Cheruvu | Rajeshkar (AE (ELE) 9121240337 | 7 | |
| 28 | | Medla Kunta (Devuni Kunta) | Dr Nagesh(AMOH) 9505085112 | 4 | |
| 29 | | Medi Kunta (Wipro Lake) | Ch Sunil Kumar AE 7331170683 | 6 | |
| 30 | | Nanakram Kunta | Venkateshwam AE 9989930519 | 6 | |
| 31 | | Kudi Kunta (Gauthami Lake) | D Veeraiah(TI) 9959442305 | 6 | |
| 32 | | Masid banda Lake | G Rajeshwar Rao (TI) 9989930309 | 8 | |
| 33 | | Gopi Cheruvu | R Gyaneshwar(TI) 9963333614 | 6 | |
| 34 | | Chakalavani Cheruvu | K Deepak Kumar (TI) 9912556696 | 9 | |
| 35 | | Gosai Kunta | P Murali Krishna(TI) 9121498789 | 6 | |
| 36 | | Komati Kunta | V Narender(TI) 9989930534 | 6 | |
| 37 | | Edgavani Kunta | A Satyanarayana Reddy(TI) 959442015 | 3 | |
| 38 | | Masjid-E-Jala Cheruvu | Institutional Boundaries(Tata Institute Of Fundamental Research | 1 | |
| 39 | | Chanda Nagar - 21 | Medi kunta(Guttala begumpet) | Sudheerchandra(AMC) 9542311121 | 4 |
| 40 | | | Meedi Kunta (Hafeezpet) | Waheed(AMC) 9849639766 | 6 |
| 41 | | | Modi Kunta | Sampath(ACP) 7036200585 | 6 |
| 42 | | | Kotha Cheruvu (Novotel lake) | Institutional Boundaries (in ICRISAT) | 0 |
| 43 | | | Thammidi Kunta | Ganesh (AE EMT) 8008050574 | 6 |
| 44 | | | Meedi Kunta (BK Enclave Lake) | Dr.Karthik(AMOH) 9154295227 | 7 |
| 45 | | | Kalapuram Basti Kunta/Ramasamudram Kunta | Srinivas (SS) 8008103629 | 4 |
| 46 | | | Regulakunta | Chandrakanth (UBD) 9848956500 | 10 |
| 47 | | | Patel Cheruvu | Narendra Reddy (ALO) 7702774613 | 12 |
| 48 | | | Peddakudi Cheruvu | Praveen (DE) 9154115008 | 4 |
| 49 | | | Gurnath Cheruvu | Santosh (AE) 8897060513 | 5 |
| 50 | Mallai Kunta | | Srikanthi(EE) 9701414306 | 5 | |
| 51 | Bachu Kunta | | S Prathap(AE) 7331189194 | 5 | |
| 52 | Nayanamma Kunta(Baspalli Cheruvu) | | Vijay (Supdt) 9676684555 | 7 | |
| 53 | Chanda Nagar - 21 | Raja Mohammed Kunta | Rammohan (DE) Ele 6309029543 | 5 | |
| 54 | | Kaidamma Kunta | B.Harinath Reddy (TI) 9030697570 | 5 | |
| 55 | | Erla Cheruvu | C.Srinivas(TI) 9849907730 | 6 | |
| 56 | | Kotha Kunta Hafeezpeta | A.Krishna(TI) 9989930246 | 6 | |
| 57 | | Mangalavani Kunta | M Ramakrishna Reddy)7702774610 | 2 | |
| 58 | | Bakshi Kunta (Vemana Colony Park) | G.Ramesh Kumar (Sr.Asst) 9989930200 | 5 | |
| 59 | | Lingamkunta | R.Vishwpathi(TI) 9989930567 | 4 | |
| 60 | | Pedda Cheruvu (Gangaram) | G.Ramulu(Rec.Asst) 8897022531 | 10 | |
| 61 | | RC Puram & PTC -22 | Raisamudram Lake | R.Prabhu 9121244685 | 8 |
| 62 | | | Campus lake | Institutional Boundaries (in ICRISAT) | 0 |

| | | | | |
|---|--|-----------------------|---------------------------------------|------------|
| 63 | | Sakicheruvu lake | Y Shiva Kumar 7337367271 | 8 |
| 64 | | Thimmaka Lake | Venkateswarlu(SS) 966385075 | 5 |
| 65 | | Bundelaguda | Kranthi Kumar(DE) 99699926555 | 8 |
| 66 | | Theegalasagar Cheruvu | Jyothi(HD) 7995007417 | 6 |
| 67 | | Icrisat Lake | Institutional Boundaries (in ICRISAT) | 0 |
| 68 | | Red Lake | Institutional Boundaries (in ICRISAT) | 0 |
| 69 | | Sursigal Lake | Institutional Boundaries (in ICRISAT) | 0 |
| Seirlingampally Zone Total CC TV Cameras Requirement | | | | 318 |

Table E: Kukatpally Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, AEE & Mobile No | CC Cameras Required (No's) |
|--|-------------------|--|--|----------------------------|
| 1 | Moosapet - 23 | Rangadhamuni Kunta (IDL Lake) | S Srinivas 799336029 | 16 |
| 2 | | Mullakathuva Cheruvu, 4th Phase, KPHB Colony | S Srinivas 799336029 | 18 |
| 3 | | Kamuni Cheruvu | M Ranjeeth Kumar 7337367270 | 32 |
| 4 | | Sudalavani Kunta (SunnamCheruvu) | M Ranjeeth Kumar 7337367270 | 14 |
| 5 | | Maisamma Cheruvu | M Ranjeeth Kumar 7337367270 | 32 |
| 6 | Kukatpally - 24 | Boin Cheruvu (Hasmathpet Cheruvu) | K. Aravind Kumar 7337557248 | 24 |
| 7 | | Nalla Cheruvu | V. Shiva Prakash 9700607053 | 16 |
| 8 | | Khaja Kunta | V. Shiva Prakash 9700607053 | 12 |
| 9 | | Amber Cheruvu | S. Rajiv 7995009083 | 37 |
| 10 | | Ali Talab | S. Rajiv 7995009083 | 17 |
| 11 | | Kindi Kunta | S. Rajiv 7995009083 | 18 |
| 12 | | Bheemuni Kunta | S. Rajiv 7995009083 | 21 |
| 13 | | Parki Cheruvu | B. Subash 7995009097 | 25 |
| 14 | | Yellamma Cheruvu | B. Subash 7995009097 | 8 |
| 15 | | Quthbullapur-25 | Venna lagadda Cheruvu | SurenderNaik 7995077952 |
| 16 | Fox Sagar | | SurenderNaik 7995077952 | 16 |
| 17 | AllamCheruvu | | SurenderNaik 7995077952 | 0 |
| 18 | Gajularamaram-26 | Pedda Cheruvu | K. Kalyan, 7995077953 | 5 |
| 19 | | Vodlavani Kunta | K. Kalyan, 7995077953 | 0 |
| 20 | | Chintal Cheruvu | K. Kalyan, 7995077953 | 0 |
| 21 | | Ramna Cheruvu | K. Kalyan, 7995077953 | 0 |
| 22 | | Chinna Bandam | T.Sampath Kumar, 7995077961 | 5 |
| 23 | | Pedda Bandam | T.Sampath Kumar, 7995077961 | 5 |
| 24 | | HMT Lake | G. Satish, 7995077962 | 0 |
| 25 | | Panthul Cheruvu | T.Sampath Kumar, 7995077961 | 0 |
| 26 | | Maddila Cheruvu | G. Satish, 7995077962 | 0 |
| 27 | | Bogamdani Kunta | G. Satish, 7995077962 | 0 |
| 28 | | Bandam Cheruvu | K. Kalyan, 7995077953 | 0 |
| 29 | | Kotha Kunta | K. Kalyan, 7995077953 | 5 |
| 30 | | Mahaboob kunta | T.Sampath Kumar, 7995077961 | 5 |
| 31 | | Jangum Bandam | G. Satish, 7995077962 | 0 |
| 32 | | Parki Cheruvu | G. Satish, 7995077962 | 5 |
| 33 | | Kalmanna Kunta | K. Kalyan, 7995077953 | 0 |
| 34 | | Lingam Cheruvu | T.Sampath Kumar, 7995077961 | 5 |
| 35 | Alwal | Mysamma Kunta | T.Sampath Kumar, 7995077961 | 0 |
| 36 | | MothkulaKunta | P. Ravali 7337557230 | 6 |
| 37 | | Kotha Cheruvu (Alwal Cheruvu) | A. V. Laxmi 7995077963 | 9 |
| 38 | | Chinnarayan Cheruvu | A. V. Laxmi 7995077963 | 8 |
| 39 | Alwal | Kowkoor Cheruvu | P. Ravali 7337557230 | 4 |
| 40 | | Nagireddy Kunta | P. Ravali 7337557230 | 6 |
| 41 | | Bison Kunta | P. Ravali 7337557230 | 3 |
| 42 | | Mannevari Kunta | P. Ravali 7337557230 | 0 |
| Kukatpally Zone Total CC TV Cameras Requirement | | | | 142 |

Table F: Secunderabad Zone CC TV Cameras Requirements:

| Sl. No | Circle Name & No. | Name of the Lake / Tank | Name of the Nodal Officer, Designation & Mobile No | CC Cameras Required (No's) |
|--|-------------------|-----------------------------|--|----------------------------|
| 1 | Malkajiri - 28 | Banda cheruvu, Vinayaknagar | Smt. Loukeya DEE, 9440545755 | 10 |
| 2 | | Safilguda lake, Malkajiri | Smt. Loukeya DEE, 9440545755 | 10 |
| 3 | | RK puram cheruvu, Neredmet | Sri. Mahesh DEE, 9959226998 | 7 |
| 4 | | Nagireddy cheruvu, Yapral | Sri. Mahesh DEE, 9959226998 | 5 |
| Secunderabad Zone Total CC TV Cameras Requirement | | | | 32 |

- The Proposed CCTV Cameras should be with O&M of 2 Years and with a provision to view the Live Status of the cameras (ON/OFF).
- The CCTV Cameras should be installed on the already provided Street Light Poles around the Lakes and the required Power should be taken from the nearby CCMS box.
- The Payment Power Bill is in the scope of GHMC.

III. SPECIFICATIONS:

| IP Based HD Fixed Bullet Camera Specifications for Outdoor Surveillance | | |
|--|--------------------|---|
| # | PARAMETER | MINIMUM SPECIFICATIONS OR BETTER |
| 1 | Video Compression | H.265, H.264, MJPEG or Better |
| 2 | Video Resolution | 1920 x 1080p |
| 3 | Frame Rate | Min. 30 fps at 1920X1080 |
| 4 | S/N Ratio | ≥50 db |
| 5 | Image Sensor | 1/2.8" or 1/3" Progress scan CMOS sensor with high-quality IR and day & night functionality |
| 6 | Lens | Auto IRIS : 2.8 to 12 mm Vari Focal lens, C/CS Mount |
| 7 | Shutter Time | Auto/Manual 1s to 1/10,000s |
| 8 | Min. illumination | Color: 0.5 lux, B/W: 0.1 lux (at 30 IRE) |
| 9 | IR | IR range of 50 mtr |
| 10 | SIM Slot | Which supports 4G/5G network SIM |
| 11 | Day/Night Mode | Color, Mono, Auto |
| 12 | Video Stream | Dual stream at full resolution (1920 x 1080) at full frame rate (Min. 30 fps) at all video compressions and Streams |
| 13 | Image Settings | Auto adjustment & Remote Control setting of Image settings for Color, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Gain control; DWDR, 3D-DNR; HLC; WDR (120 db) |
| 14 | Wide Dynamic Range | On / Off; Min 120db |
| 15 | BLC | On / Off |

| | | |
|----|---------------------------|--|
| 16 | Protocol & Network | HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS, multicast, & 802.1x, 10/100 Mbps Ethernet, IEEE 802.3af PoE (RJ-45); Ipv4 & Ipv6 |
| 17 | Security | Password Protection, IP Address filtering, User Access Log, HTTPS encryption |
| 18 | Temperature | Operating Temperature: - 10° C to +60° C Storage Temperature: - 10° C to +70° C Humidity: 95% or less (non-condensing) |
| 19 | Power | * 12V DC; 24V AC * 802.3af compliant Power-over-Ethernet (PoE) Class 3 |
| 20 | Housing & Accessories | IP 67 rated; Tamper Resistant casing for Indoor environment |
| 21 | Local Storage Slot | Micro SD/SDHC/SDXC Memory Storage slot up to 128GB |
| 22 | Local Storage SD Card | Min 128GB, Class 10, High Speed |
| 23 | Software/Applications | * SDK for application development & system integration * Supports firmware upgrade |
| 24 | Certification & Standards | Certification & Standards: * IS-13252-1/IEC-60950-1/UL-60950-1/equivalent, CE, FCC, RoHS Certification * Proposed Camera Model Numbers that are imported should be listed in the BIS website https://www.bis.gov.in . * MAC Address of the IP Cameras must be registered in the name of OEM supplying the cameras. Proof to be submitted along with the Technical Bid |

IV. TERMS AND CONDITIONS:

- a. **Warranty and Maintenance:** Comprehensive Onsite Maintenance for a period of Two Years
- b. **Insurance:** Included
- c. **Taxes:** Exclusive of GST.
- d. View of working status of the installed cameras i.e either Camera is ON or OFF.
- e. **Payment Terms:**
 - 100% CAPEX Payment will be made after Supply, Installation, Testing and Commissioning of Cameras
 - During O&M period quarterly payment will be made after successful completion of each quarter.
- f. **Delivery Schedule:**
 - Supply, Installation, Testing and Commissioning of Cameras should be completed within 1 month from the date of Agreement.