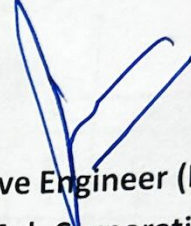# NAGPUR MUNICIPAL CORPORATION, Nagpur
Quotation Notice

Commissioner NMC invites Quotations. These Quotations can be Physicaly Submitted by the manufacturers, dealers or contractors . Rates Quoted by the manufacturers, dealers or contractors as per the item list available on Nagpur Municipal Corporation,Nagpur Website (www.nmcnagpur.gov.in)

1) Right to reject any or all quotation without assigning any reason is reserved by the Municipal Commissioner N.M.C. Nagpur.

2) For any details regarding project, contact to Executive Engineer (Project 1) , 5 th floor NMC Building,Civil Lines, Nagpur 440001. Email ID- eeprojectnmc@gmail.com

3) Quotations submit before 05-12-2024 up to 16:00 Hrs

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Advt.No ……………\PRO

Dt: ……../………../2024

Executive Engineer (Project 1)
Nagpur Mpl. Corporation, Nagpur

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SR. NO	ITEM	QTY.	UNIT	Rate	Amount
1	**Wind driven Turbo Fan:** Supplying and erecting **Wind driven Turbo Fan** of following specifications : a) Mounting - Vertical Mounting, b) Turbine diameter - 18 to 24 inch, c) Throat diameter - 12 to 16 inch, d) Tubine - Made from hot deep galvanised / Stainless steel, e) Bearing - should have SKF/TATA make suitable thrust bearing at the bottom, f) Support - Hot deep galvanised steel or stainless steel bracing, g) Balancing - The turbine shall be dynamically balanced, h) Arrangement for waterproof installation - The turbo fan should have proper arrangement like flashing for wheatherproof installation.	24	Nos.		
2	**Sandwitch PUF Roof:** Providing and fixing Sandwitch PUF Roof Panel of colour coated Galvalume sheet of 60mm thick having size from 950 to 1100mm wide interlocking panels follow with Tongue & Groove panel joining with water tight mechanism, with fire resistance having density 40 Kg/m3, having panel length as per requirment, with top sheet of 0.60mm thick blue colour and bottom sheet 0.40mm thick off-white colour. pre-painted Coated with (PVDF) Polyvinyldence Flouride Galvalume Steel Sheet metallic hot dip coated with total on each side Alluminium + Zinc + Silicon combination coating having percentage ratio of (55% + 43.4% + 1.6%) coated 150 GSM with colour BOND (R) steel quality super durable polyster paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um comprising of nominal 25 um exterior coat on top surface /bottom surface & 10 um reverse coat on back surface. life of 20 years (U-Value = 0.297 W/mK, R-Value = 3.50 W/mK & K-Value = 0.023 W/mK), having yield strength of 550 MPa, panel having load bearing capacity 2300 kg/m2 with Tensile strength 3.70 kg/m2 (for PUF), Bending strength 4 kg/cm2 (for PUF), having compressive strength 2.10 kg/cm2 with Temp Range upto -60oC to +80oC . In PUF adhesive strength foam to steel maintain upto 2.9 kg/cm2 (for PUF), including preparation of sheet layout drawings and minimizing wastage & proper closing of cut outs/ openings, junctions etc. also including same make flashing like ridge, corners, eaves, aprons, drilling screw, crimped curved fasteners etc. complete. [Follow IS Specifications for Base Metal Standard as per ASTM A792M JIS G 3321, EN 10397, AS 1397 & for Metallic coating as per IS 12436 1988 (PUF Panel) and Zinc coating GI Sheet as per IS 277] 50mm thick PUF panel for roof including all accessories like front / end / side caps, screws, rivets, silicon and necessary fixing arrangements. Spec.No.: As directed by Engineer- in-charge.	955	SQM		
3	**G.I. precoated metacolour sheet :** Providing and fixing **G.I. precoated metacolour sheet** with accesories of 0.50 mm thick and 600 mm wide **for ridge / valley** including roof bolt and necessary fitting arrangements. Spec.No.: As directed by Engineer in-charge.	1500	SQM		
4	**Valley gutter :** Providing and fixing **valley gutter** of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 90 cm wide with teak wood planking 20mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).	100	RMT		
5	Providing and fixing in position **UPVC ultra violet stabilized 110 mm outer diameter cowl dome** confirming to I.S.-4985 including making joints with solvent cement etc. complete.	6	Nos		
6	Supplying & erecting of High definition 4/5 Megapixel IP IR Dome Camera with following features Image Sensor : minimum 1/2.8" Progressive Scan CMOS, Video Resolution : minimum 2592 x 1520 Video Compression : H.264, H.265 or higher, at least Three individually configurable stream, Frame rate : minimum 25 fps at all resolutions, WDR : minimum 120 dB Wide Dynamic Range, ONVIF profile conformant, minimum IR distance : 50m, Lens Type : 2.8/4/6 mm Lens, fixed focal, Field of View : 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129° 4 mm, horizontal FOV 86°, vertical FOV 47°, diagonal FOV 102° 6 mm, horizontal FOV 55°, vertical FOV 29°, diagonal FOV 65° Lux sensitivity - minimum 0.2 Lux at color, minimum 0.05 Lux at Black & White, 0.0 Lux (IR) Night Vision Distance minimum IR - 50m.Camera minimum Adjustment Angles - Pan : 350°, Tilt : 72°, Rotate : 350°.Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security - User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP, SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour, SNMP and Secure shell (SSH) supported protocol. RoHS, WEEE, ISO-14001 and REACH compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no. CCTV-CAM.	24	Each		
7	Supplying & erecting of High definition 4/5 Megapixel IP IR Bullet Camera with following features Image Sensor : minimum 1/2.8" Progressive Scan CMOS, Video Resolution : minimum 2592 x 1520 Video Compression : H.264, H.265 or higher, at least Three individually configurable stream, Frame rate : minimum 25 fps at all resolutions, WDR : minimum 120 dB Wide Dynamic Range, ONVIF profile conformant, minimum IR distance : 50m, Lens Type : 2.8/4/6 mm Lens, fixed focal, Field of View : 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129° 4 mm, horizontal FOV 86°, vertical FOV 47°, diagonal FOV 102° 6 mm, horizontal FOV 55°, vertical FOV 29°, diagonal FOV 65° Lux sensitivity - minimum 0.2 Lux at color, minimum 0.05 Lux at Black & White, 0.0 Lux (IR) Night Vision Distance minimum IR - 50m. Camera minimum Adjustment Angles - Pan : 350°, Tilt : 72°, Rotate : 350°. Power Supply : Support 12VDC & PoE, IP67, IK10 - Vandal Resistant. Built in micro SD/SDHC/SDXC card slot of minimum 128 GB, Built in microphone. minimum Input/Output - Audio in × 1, Audio Out × 1, Alarm in × 1, Alarm Out × 1. Image Settings : Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance. Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation. Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security - User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP,SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour,SNMP and Secure shell (SSH) supported protocol.RoHS, WEEE, ISO-14001 and REACH compliant, UL/EN OR equivalentBIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no. CCTV-CAM	7	Each		
8	Supplying, installing, testing & commissioning of 32/40 Ch. Network Video Recorder (NVR), suitable connect Min. 32 IP Cameras, up to 5 Megapixel Resolution, with HDMI/VGA outputs, provided HDMI output of 4K resolution or VGA output with output up to 1920 × 1080.Support H.265 or higher, H.264, MJPEG, Incoming Bandwidth 250Mbps with minimum 4 SATA Hard Disks, ANR Technology, 4 SATA interfaces for 4 HDDs and capacity of each HDD up to 8TB,minimum 02 USB port, Alarm I/O 16/4, RJ-45 10/100/ 1000 Mbps selfadaptive Ethernet interface, ONVIF conformance, Multiple network monitoring: Web viewer . support protocol TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS. RoHS, UL, CE, FCC certified.duly erected in provided U Rack with wiring connections, tagging and programming etc. complete as per specification no. CCTV-NVR	1	Each		

#	Description	Qty	Unit		
9	Supplying & erecting 4 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD	4	Each		
10	Supplying & erecting 43" professional LED display with 1920*1080 (Full HD) Display, suitable for 16/32 channel NVR and following features Brightness: minimum 500 Cd/m2 Contrast Ratio: minimum 1000:1,Viewing angle: 178/178 deg. Response time: maximum 8 ms, Inputs: HDMI, VGA, BNC,USB, Audio In, Built-in speakers maximum 10 W, Suitable to operate on 100-240 V 50 Hz AC supply and 24/7 Duty Cycle duly erected on wall or table top with standard accessories like wall mount stand and wiring connections etc. complete as per specifications no. CCTV-MON	1	Each		
11	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 82.5 kVA confirming to CPCB-IV plus Emission Compliant with output continuous rating, 3 Phase, 415 V, 50c/s 0.8 p. f.A.C supply, a totally enclosed liquid cooled multi in line cylinder diesel engine developing suitable BHP at 1500 rpm with 10% overload for 1 hour in 12 hours, along with standard accessories, self-excited, self-regulated, screen protected alternator with static excitation system running at 1500 RPM as per IS 4722-2001 with voltage regulation +/-0. 5 %, with performance class G2 Both the engine and alternator direct coupled on a common fabricated steel base frame and mounted on anti-vibrating pads with standard control panel comprising meters,switchgears, indicators connected with suitable wires/cables, the complete set enclosed in composite Acoustic enclosure as fully assembled integral unit made of 16 SWG CRCA Sheet, sound absorbing material to restrict sound level up to 75 dB at 1.0 m, with suitable capacity DEF tank provided with first filling of oil, diesel tank capacity not less than 145 Litres etc. on provided M20 Grade CC Foundation and obtaining necessary approval from Electrical Inspector if necessary. **This D.G set is Fitted in Soundproof & Weather Proof Acoustic Enclosure as per CPCB IV plus Emission Compliant (with acoustic enclosure as per latest Government norms) approved Norms.**	1	Each		
12	Supply, installing, testing & Commissioning of Wrinkle free motorized Projectoe Screen 220" Digonal with static resistant and easy to clean with mild soap and water, 16:9 aspect screen ratio, 108" Heght X 192" Width with 4k full HD technologgy, screen control should be with control panel & remote and less noise and smooth functioning complete.	1	Each		
13	Supply, installing, testing & Commissioning of Projector - 3LCD, Brightness 5000 lumens, Resolution 1920x 1080, Lamp Life 6000 hours, Full HD	1	Each		
14	Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 /15683 of 6 kg capacity with necessary clamp for erection on wall.	12	Each		
15	Supplying & erecting of High definition 2 Megapixel IP IR Bullet Camera with following features : Image Sensor : minimum 1/2.8" Progressive Scan CMOS, Video Resolution : minimum 1920 x 1080 Video Compression : H.264, H.265 or higher, at least Three individually configurable stream, Frame rate : minimum 25 fps at all resolutions, WDR : minimum 120 dB Wide Dynamic Range, ONVIF profile conformant, minimum IR distance : 30m, Lens Type : 2.8/4/6 mm Lens, fixed focal, Field of View : 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129° 4 mm, horizontal FOV 86°, vertical FOV 47°, diagonal FOV 102° 6 mm, horizontal FOV 55°, vertical FOV 29°, diagonal FOV 65° Lux sensitivity - minimum 0.2 Lux at color, minimum 0.05 Lux at Black & White, 0.0 Lux (IR) Night Vision Distance minimum IR - 30m. Camera minimum Adjustment Angles - Pan : 350°, Tilt : 72°, Rotate : 350°. Power Supply : Support 12VDC & PoE, IP67, IK10 - Vandal Resistant. Built in micro SD/SDHC/SDXC card slot of minimum 128 GB, Built in microphone. minimum Input/Output - Audio in × 1, Audio Out × 1, Alarm in × 1, Alarm Out × 1. Image Settings : Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance. Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation. Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security- User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP, SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour, SNMP and Secure shell (SSH) supported protocol. RoHS, WEEE, ISO-14001 and REACH compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no.CCTV-CAM. Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security - User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP, SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour, SNMP and Secure shell (SSH) supported protocol. RoHS, WEEE, ISO-14001 and REACH compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no. CCTV-CAM.	4	Each		
16	Supplying, installing, testing & commissioning of 16/20 Ch. Network Video Recorder (NVR), suitable for 2 MP cameras only with HDMI/VGA outputs provided HDMI output of 4K resolution or VGA output with output up to 1920 × 1080. Support H.265 or higher, H.264, MJPEG, Incoming Bandwidth 160Mbps with minimum 2 SATA Hard Disks, ANR Technology, 2 SATA interfaces for 2 HDDs and capacity of each HDD up to 8TB, minimum 02 USB port, Alarm I/O 4/1, RJ-45 10 /100/1000 Mbps self adaptive Ethernet interface, support multibrand network Cameras, ONVIF conformance, Multiple network monitoring: Web viewer. support protocol TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS. RoHS, UL, CE, FCC certified. duly erected in provided U Rack with wiring connections, tagging and programming etc. complete as per specifications no. CCTV-NVR	1	Each		
17	Supplying & erecting 1TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6GB/S, maximum sustained transfer rate 110MB/Sec to 180MB/S. Drive bay supported 08, Cameras supported up to 64, Cache (MB) 64, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD	2	Each		
18	Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following features Brightness: minimum 250 Cd/m2 Contrast Ratio: minimum 1000:1 Viewing angle: 178/178 deg. Response time: maximum 8 ms Inputs: HDMI, VGA, BNC, USB, Audio In, Built-in speakers maximum 2 W, Suitable to operate on 100-240 V 50 Hz AC supply and 24/7 Duty Cycle duly erected on wall or table top with standard accessories like wall mount stand and wiring connections etc. complete as per specifications no. CCTV-MON	1	Each		

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Name and Sign Of Agency