OFFICE OF THE ENGINEER-IN-CHIEF
P.W.D. NIRMAN BHAVAN, NORTH BLOCK,SECTOR-19
NAWA RAIPUR, ATAL NAGAR (CHHATTISGARH)

AMMENDMENT NO. 1

No. 65011/683 /SOR/ Nawa Raipur, Atal Nagar Dated 18/06/2025

The following ammendments are hereby issued in the items mentioned below in S.O.R. for Electrical & Mechanical Works (in effect from 01-06-2020)

(1) Chapter – 27 (CCTV SYSTEM & EPABX)

1) Item No. 27.75 is added as given below.
2) Item No. 27.76 is added as given below.
3) Item No. 27.77 is added as given below.
4) Item No. 27.78 is added as given below.
5) Item No. 27.79 is added as given below.
6) Item No. 27.80 is added as given below.
7) Item No. 27.81 is added as given below.
8) Item No. 27.82 is added as given below.
9) Item No. 27.83 is added as given below.
10) Item No. 27.84 is added as given below.
11) Item No. 27.85 is added as given below.
12) Item No. 27.86 is added as given below.
13) Item No. 27.87 is added as given below.
14) Item No. 27.88 is added as given below.
15) Item No. 27.89 is added as given below.
16) Item No. 27.90 is added as given below.
17) Item No. 27.91 is added as given below.
18) Item No. 27.92 is added as given below.
19) Item No. 27.93 is added as given below.
20) Item No. 27.94 is added as given below.
21) Item No. 27.95 is added as given below.

27.75	Supplying, installation, testing & Commissioning of Media Convertor 10/100/ 1000 gigabit with specification TP Port Rate-10/100Mbps N-Way Auto-negotiation, Fiber Port Rate - 100Mbps Duplex Mode - Full-Duplex / Half-Duple N-Way Auto-negotiation UTP Ports -RJ-45 UTP Fiber Ports -SC Distance - 0~2 Kms LED Indicators - TX LINK, FX LINK, TX ACT, FX ACT, PWR, FDX. Power Requirement - 5VDC 2A Ambient Temp.- 0~60°C Humidity : 5%~90% FCC Part -15 Class A & CE Marks	Each	14305.00

27.76	Supplying, installation, testing & Commissioning of SC-SC Patch Card Length up to 2 Mtr. for Optical Fiber Connector Type- SC / ST / FC / LC, MTRJ, Optical Fiber- Corning single-mode G652D, G657A, G657B, Cable Type- PVC & LSZH on request 0.9mm/2.0mm/3.0mm Simplex & duplex, Cable Color-yellow, Insertion Loss-≤0.2dB, Max. 0.3dB, Return Loss->PC≥45dB, UPC≥50 dB, APC≥60dB, Fiber Height-±100nm, Connector Ferrule Ceramic, (MTRJ: PS- Polyphenylene Sulfide)	Each	674.00
27.77	Supplying, Installation, Testing & Commissioning of Patch Panel Fully Loaded with Specification of Standard 19" rack mount, accommodates 25x50 mm USO II modules, designation strips and white paper inserts, panel mounting screws and washers, White/writeable labels for port identification.	Each	9193.00
27.78	Supplying, Installation, Testing and Commissioning of CAT 6 Patch Cord Length up to 2 Mtr. with specification of 4 Pairs Unshielded Twisted Pair (UTP) Cable, Conductor Metal: Bare Copper Conductor , 24 AWG, Insulation Material: HD-PE, Jacket Material: PVC UL94V-0, Heat-resistant: 60 degree C minimum , Flame property: The purpose of the vertical flame test is to screen out flammable wires. It follows the VW-1 (UL); FT-1 (CSA) standards.	Each	300.00
27.79	Supplying, Installation, Testing and Commissioning of load balancer with feature of Standards and Protocols- IEEE 802.3, 802.3u, 802.3x, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DDNS, Interface type -1fixed WAN,3changeable WAN/LAN, Flash-160 MB, DRAM-128MB, Security-FTP/SIP/PPTP/IPsec/H.323 ALG, DoS Defense, Ping of Death IP/MAC Binding, Bandwidth Control, Session Limit, Dynamic DNS, UPnP, Time Setting, Daylight Saving Time, SNMP, Diagnostics, Firmware Upgrade, Factory Defaults/Reboot, Backup/Restore, System Log, Remote Management, Statistic	Each	59449.00
27.80	Supplying, Installation, Testing and Commissioning of Coupler for LIU with Feature - Compact design, TIA/EIA, and IEC compliance, alignment with high precision Low insertion and return loss, Self adjusting metal panel clips ,Duplex adapter SC footprint, Screw-type locking is stable and reliable ,Square-type design ,Threaded with nuts or snap-in coupling Body: zinc alloy for long life D-shaped and rectangular mounts .	Each	174.00
27.81	Supplying & laying of 4 core Optical Fiber Cables for 9/125 Ohm Single mode installation , Om3 type suitable for 10Gb Ethernet Network bend Insensitive , Aqua LSZH Sheath , glass strands Euro class Tiger- buffer 900, Colour code for tag compliant with EN 50173-2 and ISO-IEC 11801 standard , Except for Tight-Buffer Om4	P.Mtr.	108.00

27.82	Supplying, Installation, Testing and Commissioning of pigtail SC Single Mode Fiber Pigtail Length up to 2 Mtr. , consists of 9/125 micron bulk single mode fiber cable. Fiber optic pigtails are used to achieve accurate mounting for precision alignment of fiber optical components Multi Mode, Diameter-0.9mm, Jacket Material- LSZH , Connector Type LC, SC, ST , Insertion Loss less than 0.2dB	Each	625.00
27.83	Supplying, installation, testing & Commissioning of LIU 24/48 Port speed supported 10/100/1000 GB, Configurable. Fiber LIU drawer type is a 1U rack mount unit for storing and terminating incoming fiber cable. Management rings within system to accommodate excess fiber cordage behind the adapters and maintain fiber bend radius.	Each	33095.00
27.84	Supplying , Installation, Testing & Commissioning Of 4 MP Network Motorized Face Recognition Camera 1/3" 4MP PS CMOS, Image Sensor (0.85cm) , Max 5/30fps@4Mp(2688×1520) H.265+ and H.264+ triple-stream encoding WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC, HLC 2.7 -13.5mm Motorized Lens IR Range of 50 Mtrs, Micro SD Card, IP67, IK10, ePoE, PoE CMS.	Each	1,36,342.00
27.85	Supplying , Installation ,Testing & Commissioning Of 32 GB SD Card Flash Memory Type Micro SDHC, SDXC Memory Storage Capacity 32 GB Compatible Devices Tablet, Camera, Smartphone, multi Colour Printer ,Special Feature X-Ray Proof, Water Proof, Temperature Proof, Drop Proof Read Speed 120 Mega bytes Per Second.	Each	839.00
27.86	Supply Installation Testing & Commissioning of 6U Outdoor Rack Technical Data: DIN Std. 10mm Sq. Slots Basic Frame Construction Top & Bottom Cover Front Door 19 "Mounting Angle Std. Equipment Mounting Standard Finish Rack Standard load capacity - upto30 Kg (Uniformly distributed in U Space)/ 2KG Per U	Each	17043.00
27.87	Supply Installation Testing & Commissioning of 42U Rack. Outdoor IP55 security rack cabinet for floor mounting. Contains 42U high rails in a19" rack format compatible with any Rack-type accessory. Box or cabinet prepared to place on the floor. Front door with triple point locks to prevent unauthorized access or vandalism Cabinet with IP55 protection, dustproof and complete protection against solid objects. Secured against jets of water projected from any angle. As an optional accessory, a module with 4 fans can be mounted on its upper part. It has side vents for proper ventilation. At its base it has a plate with glands for the passage of wiring. Load capacity up to 600 kilos.	Each.	93080.00

27.88	Supplying and Laying of 6 Core Armoured / Outdoor Optical Fiber cable Generally confirming to EIA/TIA 568-C.2 and IEC/ISO11801 Excellent Margin with suppression of Cross Talk (NEXT) 4 Pair Separator Design 23 AWG cable For Outdoor installation With Laying Cable Underground With Suitable Size PVC Conduit/Casing Capping and Other Accessories as per requirement.	P.Mtr.	128.00
27.89	Supplying, Installation, Testing & Commissioning of 12 Port LIU Fully Loaded 12 port LIU with Single Mode SC Connectors, Rack Mountable, Modular enclosure for cross connect and interconnect capabilities, Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers.	Each	11537.00
27.90	Supplying , Installation, Testing & Commissioning of Fiber Patch cord / Pigtail cable LC / UPC, LC / APCIL =< 0.3dB RL >= 50dB LC 2.0/3.0mm Simplex Patch Cord LC 2.0/3.0mm Duplex Patch Cord Options with multimode OM3, OM4, OM5 and single-mode OS2 G.657 Length up to 2 Mtr.	Each	1508.00
27.91	Supply, Installation , Testing and Commissioning of OFC Junction Box Fully Loaded fiber Optic Joint Termination Enclosure Box with OFC Splicing Tray , JC BOX ,Tiffin Type JC Durable Construction: Crafted from robust Plastic, ensuring longevity and protection for fiber optic joints Sleek Modern Design: Blends seamlessly with contemporary setups, Easy Installation: Screw-In installation type allows for Space-Efficient: Includes 5- 10 Fiber Optic Joint Termination Enclosure Boxes, perfect for multi-joint applications.	Each	629.00
27.92	Supplying & Laying Of 0.5 mm 20 Pair Jelly Filled Armoured Telephone Cable etc as required .	P.Mtr.	367.00
27.93	Supplying and laying Of CAT 6 Outdoor Cable Solid Annealed Bare Copper Conductor. LLD PE/PE Sheath Material For Video Power and Audio Communication With Laying Cable Underground With Suitable Size PVC Conduit/Casing Capping and Other Accessories as per requirement.	P.Mtr.	103.00
27.94	Supplying , Installation, Testing & Commissioning Of VOIP ISDN Gateway Approved Make For Optical Pri With Of Standard SIP (RFC3261, RFC 2833),H.323 IP Subscriber/Trunk SIP Info / In band DTMF Detection & generation, In band PPPoE DHCP / Static IP / VLAN, SNMP	Each	73,424.00
27.95	Supplying , Installation, Testing & Commissioning of FCBC (float cum boost charger) 48 V 10 Amp with Wide Input Voltage Range, Potential Free Contacts for Remote Fault Annunciation Analog Controller, Input High Voltage Disconnect (HVD) & Battery Low Voltage Disconnect (LVD)	Each	64,746.00

All above ammendments shall be applicable with immediate effect.

Engineer-In-Chief
Public Works Department
Nawa Raipur, Atal Nagar (C.G.)

Endt. No.65011/683 /SOR/ Nawa Raipur, Atal Nagar Dated 18 /06/2025

Copy to the

1. P.A. to Honorable Minister of P.W.D.C.G. Govt. Raipur.
2. Secretary, C.G. Govt. P.W.D. Nawa Raipur Atal Nagar.
3. Secretary, Finance Department C.G. Govt. Nawa Raipur Atal Nagar.
4. All Chief Engineers. P.W.D. Chhattisgarh.
5. All Superintending Engineer, P.W.D. Chhattisgarh.
6. Chief Technical Examiner (V) C.G. Raipur
7. Accountant General, C.G. Raipur
8. All Collectors, Chhattisgarh.
9. All Executive Engineer, P.W.D. Chhattisgarh.
10. Website Public Works Department https://www.cg.nic.in/pwdraipur

Engineer-In-Chief
Public Works Department
Nawa Raipur, Atal Nagar (C.G.)