

SOUTH CENTRAL RLY

**SECUNDERABAD
DIVISION-S AND T
O/o Sr.DSTE/SC, 2nd
floor, Sanchalan
bhavan,
Secunderabad,
Secunderabad,
500071
Telangana, India**

**Letter No: SECUNDERABAD
DIVISION-S AND T /
C_SG_36_316 / 01165180043313**

Dated: 13/10/2021

**M/s PIXEL INFOTECH-
SITAMARHI**

Ward no 12, muradpur, dumra,
sitamarhi, bihar
Sitamarhi- 843301
Bihar, India

Sub: Letter Of Acceptance

- Ref:**
- 1.** Tender No. C_SG_36_316 closing date 23-08-2021 15:00 for Installation of CCTVs at 22 RPF Posts having coverage over space meant for keeping arrested, accuse and interrogation of accused/suspects over SC division . (Parli Vaijnath Post, Bidar Post, Vikarabad Post, Sedam OP, Lingampalli OP, Bharatnagar Post, Begumpet OP, Hyderabad Post, Secunderabad Post, Cherlapalli OP, Bhongir OP, Kazipet Post, Ramagundam Post, Bellampalli OP, Sirpurkagaznagar Post, Warangal Post, Mahaboobabad OP, Dornakal OP, Khammam Post, Bhadrachalam Road Post, DLS/KZJ & Karimnagar).
 - 2.** Your bid ID **12772339** dated **23/08/2021 00:41**
 - 3.** Your Negotiation bid IDs [**12964955** dated **07/10/2021 13:00**]

The Competent Authority has accepted your offered rates in connection with the subject work. The total cost of the work at the accepted rates works out to Rs. 9007297.03

(Rupees Ninety Lakh Seven Thousand Two Hundred And Ninety-Seven Rupees And Three Paise Only)

A sum of Rs.0 deposited as Earnest Money vide IREPS reference ID has been retained towards initial Security Money for due and faithful fulfillment of the contract, and the balance Security Money will be recovered from the progressive bills @ 6 % of the bill amount till it reaches 5 % of the contract value in terms of clause 16(1) of GCC 2020, PART II.

You are requested to submit Performance Guarantee in the form as given in Clause 16(4)(b) of GCC 2020, PART II equivalent to 3 % of the contract value amounting to Rs. 270218.91 (Rupees Two Lakh Seventy Thousand Two Hundred And Eighteen Rupees And Ninety-One Paise Only) within 21 days from the date of issue of Letter of Acceptance, valid up to stipulated date of completion plus 60 days so that contract agreement can be executed. Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Earnest Money Deposit and other dues payable against that contract. In case a tenderer has not submitted Earnest Money Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in retender for that work. (As per GCC 2020, Part II, clause No. 16(4) (a)). The successful bidder shall submit the Performance Guarantee (PG) amounting to 3% of the contract value: (As per Railway Board, Ministry of Railway, GOI Lrno. 2020/CE-I/CT/3E/GCC/Policy Dt: 20.11.2020. The FDR/BG..(PG) has to be drawn in favour of Sr.DFM/SC, Secunderabad division/SCR/SC.

The entire work shall be completed within 3 month from the date of issue of Letter of Acceptance.

The Payment terms are :: Supply Portion(Sch-A): 90%
Payment will be made on receipt and acceptance of materials as per schedule. Balance 10% will be paid along with labour portion of the work.

:: Labour Portion (Sch-B): On Account payments will be made for the work done as per schedule as certified by the Engineer in charge of the work.

Warranty:: All the equipments supplied shall be warranted for a period of 01 (ONE) year against manufacturing/installation defects from the date of commissioning of equipments.

Maintenance Period:: The tenderer/contractor shall maintain the equipment and rectify any defects that may arise in the work executed for a period of 01 (ONE) year from the date of completion of the work

:: (A)Minimum Specification for ONVIF 2MP IR Dome camera (Schedule-B item:1)

Camera: Image Sensor1/2.8

:: Min. Illumination Color: 0.01 Lux @ (F1.2, AGC ON), 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR

:: Shutter Speed1/3 s to 1/100,000 s

:: Slow Shutter Yes

:: Wide Dynamic Range120dB

:: Day & Night IR Cut Filter

:: Angle Adjustment Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°

:: Focus Auto

:: Lens Type2.7 to 13.5 mm

:: FOV Horizontal FOV: 112° to 29°, vertical FOV: 59° to 17°, diagonal FOV: 139° to 33°

:: ApertureF1.6

:: Lens Mount 14
 :: Auto-Iris DC drive Illuminator
 :: IR Range Up to 40 m
 :: Wavelength 850nm
 :: Max. Resolution 1920 x 1080
 :: Main Stream 50Hz: 25fps (1920 x 1080, 1280 x 960, 1280 x 720), 60Hz: 30fps (1920 x 1080, 1280 x 960, 1280 x 720)
 :: Sub-Stream 50Hz: 25fps (640 x 480, 640 x 360, 320 x 240), 60Hz: 30fps (640 x 480, 640 x 360, 320 x 240)
 :: Third Stream 50Hz: 25fps (1920 x 1080, 1280 x 720, 640 x 360, 352 x 288), 60Hz: 30fps (1920 x 1080, 1280 x 720, 640 x 360, 352 x 240)
 :: Video Compression Main stream: H.265/H.264 Sub-stream/third stream: H.265/H.264/MJPEG
 :: Video Bit Rate 256 Kbps to 16 Mbps
 :: H.264 Type Main Profile/High Profile
 :: H.265 Type Main Profile
 :: H.264+Main stream supports
 :: H.265+Main stream supports
 :: Region of Interest (ROI) 5 fixed region for main stream and sub-stream Audio
 :: Environment Noise Filtering Yes
 :: Audio Sampling Rate 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
 :: Audio Compression G722.1/G.711/G726/MP2L2/PCM/MP3
 :: Audio Bit Rate 64Kbps(G.711)/16Kbps (G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8Kbps-320Kbps (MP3)

Network: Simultaneous Live View Up to 6 channels

:: APIONVIF (PROFILE S, PROFILE G, PROFILE T),
ISAPI, SDK, Ehome

:: ı Protocols TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP,
DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,
UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP,
Bonjour, SSL/TLS

:: User/HostUp to 32 users,3 levels: Administrator,
Operator and User

:: Network Storage Support Micro SD/SDHC/SDXC card
(128G), local storage and NAS (NFS, SMB/CIFS), ANR

:: Client iVMS

:: Web Browser Plug-in required live view: IE8+ Plug-in
free live view: Chr2ome 57.0+, Firefox 52.0+, Safari 11+
Local Service: Chrome 41.0+, Firefox 30.0+

:: Alarm Trigger Motion detection, video tampering alarm,
exception (network disconnected, IP address conflict,
illegal login, HDD full, HDD error)

Image: Day/Night Switch
Day/Night/Auto/Schedule/Triggered by alarm in(-S)

:: Target Cropping No

:: DNR3D DNR

:: Image Enhancement BLC/3D DNR/HLC

:: Image Settings Rotate mode, saturation, brightness,
contrast, sharpness, AGC, and white balance are adjustable
by client software or web browser

Interface:: Audio1 input (line in/mic.in, 3.5 mm), 1 output
(line out, 3.5 mm), mono sound

:: Alarm1 input, 1 output (max. 12 VDC, 30 mA), terminal
block

:: Video Output1 Vp-p Composite Output(75/BNC) (For
adjustment only)

:: On-Board Storage Built-in Micro SD/SDHC/SDXC slot, up to 128 GB

:: Hardware Reset Yes

:: Communication Interface1 RJ45 10M/100M self-adaptive Ethernet port

:: Basic Event Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)

:: Smart Event Line crossing detection, 1-line configurable
Intrusion detection, up to 1 region configurable
Unattended baggage detection, 1 region configurable
Object removal detection, 1 region configurable
Face detection: detects faces
Scene change detection

:: Face Detection Yes

:: Exception Detection Scene change detection

General:: Linkage Method Trigger recording: memory card, network storage, pre-record and post-record
Trigger captured pictures uploading: FTP, HTTP, NAS, Email
Trigger notification: HTTP, ISAPI, alarm output, Email

:: Firmware VersionV5.6.0

:: General Function Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening

:: Start-up and Operating Conditions-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)

:: Power Supply12 VDC \pm 25%, terminal block, Poe (802.3af, class 3)

:: Power Consumption and Current12 VDC, 0.8A, max.
10W PoE (802.3af, 37V to 57V), 0.35A to 0.2A, max.
12W

Approval:: Protection IK10IP67

(B)Specification for NVR 16-CH (SCH-B Item-2): System

:: Main Processor Industrial embedded micro-processor

:: Operating System Embedded Linux

:: Operation Interface Web; local GUI

:: Perimeter Protection by Camera

:: Performance 16 channels

:: AI Search Search for pictures by channel, time and event type

SMD Plus by Camera: Performance 16/32 channels

:: AI Search Search by target classification (human, vehicle)

Video: Access Channel 16/32

:: Network Bandwidth 200 Mbps for access, 200 Mbps for storage and 96 Mbps for forwarding

:: Resolution 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more

:: Decoding Capability 8 channels@ 1080p (30 fps)

:: Video Output HDMI: 3840 x 2160; 1920 x 1080; 1280 x 1024; 1280 x 720; VGA: 1920 x 1080; 1280 x 1024; 1280 x 720

:: Multi-screen Display 16-channel: 1/4/8/9/16; 32-channel: 1/4/8/9/16/25/36

:: Third Party Camera Access Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more

Compression: Video Smart H.265+; Smart H.264+; H.265; H.264

:: Audio PCM; G.711A; G.711U; G.726

Network: Network Protocol HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports all types of IP camera, DVR, NVS, and more); P2P

:: Mobile Phone Access Android; iOS

:: Interoperability ONVIF (profile T/S/G); CGI; SDK

:: Browser Chrome; IE9 or later; Firefox

Record Playback: Multi-channel Playback 1/4/9/16

:: Record Mode Manual; schedule (general; MD; alarm; MD & alarm; intelligent)

:: Storage Method Local HDD and network

:: Backup USB device

:: Playback Function 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame; 2. Full screen; backup (cut/file) ; partially enlarge; audio on/off

Storage: Disk Group Yes

Alarm: General Alarm Motion detection; privacy masking; video loss; PIR alarm; IPC alarm

:: Anomaly Alarm Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly

:: Intelligent Alarm Perimeter protection; SMD; people counting; heat map

:: Alarm Linkage Record; snapshot; IPC external alarm output; buzzer; log; preset; email

External Port: Audio Input 1 channel, RCA connector

:: Audio Output 1 channel, RCA connector, which support voice intercom output

:: HDD 4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature

:: Alarm Input 16 channels

:: Alarm Output 4 channels

:: RS-232 1 channel, used to debug and pass through serial data

:: RS-485 1 channel, used to control PTZ, and it supports multiple protocols

:: USB 1 front USB 2.0 port, 1 rear USB 3.0 port

:: HDMI 1

:: VGA 1

:: Network 2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports

General Parameter: Power SupplySingle, 100V-240V AC, 50 Hz-60 Hz

:: Power Consumption < 11.7W (without HDD)

:: Net Weight 4.5 kg (9.9 lb) (without HDD)

:: Gross Weight 7 kg (15.4 lb) (without HDD)

:: Product Dimensions440.0 mm x 412.1 mm x 76.0 mm (17.3

:: Package Dimensions522 mm x 492 mm x 200 mm (20.6

:: Operating Temperature -10°C to +55°C (+14°F to +131°F)

:: Storage Temperature 0°C to +40°C (+32°F to +104°F)

:: Operating Humidity10%-93% (RH)

:: Storage Humidity30%-85% (RH)

:: Operating Altitude 3,000 m (9,843 ft)

:: Certifications CE: EN55032; EN55024; EN50130-4; EN60950-1;FCC: Part 15 Subpart B; ANSI C63.4-2014;UL: UL 60950-1

:: (b) No. of cameras to be installed as per location given below

:: 1 RPF POST / OP: Begumpet OP 2 Nos Cameras
 :: 2 RPF POST / OP: Bhongir OP 5 Nos Cameras
 :: 3. RPF POST / OP: Dornakal OP 5 Nos Cameras
 :: 4 RPF POST / OP: Mahaboobabad OP 5 Nos Cameras
 :: 5 RPF POST / OP: Khammam Post 7 Nos Cameras
 :: 6 RPF POST / OP: Warangal Post 7 Nos Cameras
 :: 7 RPF POST / OP: Kazipet Post 8 Nos Cameras
 :: 8 Hyderabad Post 11 Nos Cameras
 :: 9 RPF POST / OP: Lingampalli OP 12 Nos Cameras
 :: 10 RPF POST / OP: Sirpurkagaznagar Post 7 Nos Cameras
 :: 11 RPF POST / OP: Bellampalli OP 5 Nos Cameras
 :: 12 RPF POST / OP: Bhadrachalam Road Post 7 Nos Cameras
 :: 13 RPF POST / OP: Bharatnagar Post 9 Nos Cameras
 :: 14 RPF POST / OP: Bidar Post 12 Nos Cameras
 :: 15 RPF POST / OP: Cherlapalli 5 Nos Cameras
 :: 16 RPF POST / OP: Parli Vaijnath Post 8 Nos Cameras
 :: 17 RPF POST / OP: Ramagundam Post 7 Nos Cameras
 :: 18 RPF POST / OP: Secunderabad Post 8 Nos Cameras
 :: 19 RPF POST / OP: Sedam OP 4 Nos Cameras
 :: 20 RPF POST / OP: Vikarabad post 12 Nos Cameras
 :: 21 RPF POST / OP: DLS/KZJ 5 Nos Cameras
 :: 22 RPF POST / OP: Karimnagar 5 Nos Cameras
 [TOTAL 156]

:: The Officer in charge, Supervisor in charge, Consignee for receiving the stores materials, Bills paying authority etc of the subject work shall be as under:

:: (a) Section of work: Over SC division

:: (b) Stores -Receipts/Issues: SSE/T/WL/SC

:: (c) OFFICER in-charge for materials
Inspection :DSTE/S/SC

:: (d) Supervisor in-charge for materials
Inspection:SSE/T/WL/SC

:: (e) Recording the measurements : Shedule-A[Supply Portion]: SSE/T/WL/SC & DSTE/S/SC ; Shedule-B [Labour portion]: Respective Field supervisors & Officer

:: Copy to: : Concerned above Officials for information and necessary action.

:: Copy to: : Regional Labour Commissioner (Central), ATI Campus, Vidyanagar, Hyderabad- 7 for informaion

:: Copy to: : CVO/S&T/SC for information please

All Other terms and conditions, as stipulated in the tender documents shall be applicable.

SURI RAMAKRISHNA
SUBRAHMANYAM
DSTE/SIG/SC
Digitally Signed
[View Signature Details](#)

Awarded Quantities And Rates

Item Sno.	Item Desc	Item Code	Item Qty	Qty Unit	Unit Rate (Rs)	Escl. (%)	Advt.Value (Rs)	Bid Rate/ Unit Rate		Bid Amount (Rs)
Schedule A-(Supply) (Item Directory - Not Applicable)							3408672.48			
1	Schedule-A (Supply)	View Details				At Par	3408672.48	18.50	% Below	2778068.07
Schedule Totals							2778068.07			
							7643225.72			

Schedule B-(Labour) (Item Directory - Not Applicable)							
1	Schedule -B (Labour)	View Details	At Par	7643225.72	18.50	% Below	6229228.96
Schedule Totals				6229228.96			
Total Value				11051898.20			9007297.03
				Rebate on Total Value (%)		0.00	
				Net Bid Value		9007297.03	

Item Breakup

Schedule	A-(Supply)					
Item - 1	Schedule-A (Supply)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of CAT 6 UTP cable 23AWG gauge 4 Pair Solid, overall shielded, Twisted Pair FTP with Spline for better NEXT- Near End Crosstalk. 100% BARE COPPER. Gray Jacket suitable for IEEE 802.3an 10GBASE-T and legacy speeds. IEEE 802.3af (PoE) / IEEE 802.3at (PoE+). Drum/box of 305 mtrs length each . Make D-link/Molex/Infinity/Krone or latest. (TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Boxes	50	6000.00	300000.00
2	2	Supply of Power cable 3 core 2.5sq.mm 15amps 1100V, multi strand, fire resistant.PVC Insulated. & Sheathed Copper flexible round cable as per IS 694 specification. Make:Havells / Finolex/V-Guard (TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Metre	1100	50.00	55000.00
3	3	Supply of High sped HDMI cable - 10 feet(Latest standard) - Supports ethernet, 3D, 4K video, Make:Amazon basics/ Blue	Numbers	44	378.92	16672.48

		rigger OR latest.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)				
4	4	Supply of 8TB surveillance Internal Hard Disc suitable for 16 channel NVR vide item No:2 of SCH-B of make SEAGATE/WD. All materials required for installaion should be arranged by contractor including connecting cables if any. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	23	28500.00	655500.00
5	5	Supply of Expansion desktop 10TB external Hard drive HDD USB 3.0 for NVR/PC/Laptop suitable for item:2 of SCH-B Make: Model Seagate (STEB10000400) or latest. All materials required for installaion should be arranged by contractor including connecting cables if any. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	110	21650.00	2381500.00
					Total	3408672.48
Schedule	B-(Labour)					
Item - 1	Schedule -B (Labour)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and fixing of ONVIF 2MP IR Dome camera with Verifocal Lense with audio & Night vision. Make/Model: Hikvision - DS-2CD3723G1-IZS/CP-Plus /Honeywell or latest.l as per specification enclosed. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE	Numbers	171	18990.00	3247290.00

		AND THE ITEM RATE IS INCLUSIVE OF GST 18%)				
2	2	Supply, installation, integration and commissioning of ONVIF 16 channel NVR suitable for integrating 2MP IP cameras vide item 1 of SCH-B of make Dahua to Model No.4416-4KS2/Hikvision/CP plus as per specification enclosed. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	23	48499.99	1115499.77
3	3	Supply and installation of Smart Television Tv 32 Inch LED Backlit LCD . Make: LG (32SM5KE) / Samsung / Sony or latest . All fixing arrangements as per site requirement to be arranged by contractor. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	23	22500.01	517500.23
4	4	Supply & installation of Rack 19" wall mount 6U/500MM D with front glass door and lock and key including the following: 1U cable manager - 1 No. 1U Cantilever tray - 1 No. AC distribution box 5X5 amps - 1 No.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	22	6320.10	139042.20
5	5	Supply and fixing of different sizes of PVC casing /Pipes as required by Railway at site by fixing /clamping to the wall for indoor wiring purposes. . The material required carrying out the wiring such as soldering, lacing, casing, fixing clamps; screws etc are to be	Metre	7800	37.76	294528.00

		provided by contractor on his own cost. Make: Sudhakar / Ashirvad / Prince or latest.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%) (Item unit is RMT)				
6	6	Supply, fixing and termination of RJ-45 jacks to Cat-6 Cable Make: D-Link or latest. (Cable will be supplied vide item-1 of supply portion)(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	1000	4.99	4990.00
7	7	Supply and installation of 24 port POE Gigabit unmanagable Switch. Model Hikvision DS-3E0526P-E/M/B or D_Link DES-1210-28P series or latest. All materials including connecting cables if any should be arranged by contractor.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)	Numbers	24	20948.99	502775.76
8	8	Supply, installation & commissioning of 3 KVA UPS with battery extender to provide backup for 2 hours as per specs. 1 . Output Power Capacity 3000 VA (1800 Watts) 2. Maximum Configurable Power : 3000 VA (1800 Watts 3 Nominal Output Voltage: 230 V AC 4 Input Voltage: 175 - 295 V AC 5 Battery Type : Maintenance free Lead Acid battery and number of batteries as per the model. If batteries are need to be provided externally, then, batteries should be secured in suitable box for extending the backup time. 6 Backup Time Min. 2 Hours 7 Control panel Status displays for online, on battery, Replace battery	Numbers	24	75899.99	1821599.76

	and overload 8 Audible Alarm When on battery, Distinctive low battery alarm. UPS Make: APC / Numeric. Battery Make: Exide / Amaraja / HBL. All materials required for installation and commissioning of UPS should be arranged by contractor as per site requirement. (Which includes suitable power cable / MCB etc. Warranty: Manufacturers warranty not less than 1 year.(TO BE INSPECTED BY CONSIGNEE AND THE ITEM RATE IS INCLUSIVE OF GST 18%)			
				Total
				7643225.72