

Supply and Installation of indoor and outdoor CCTV system for Jhal Magsi Gas Field <u>Baluchistan</u>

TENDER NO. TE/JM/PROJ/03/2024

## TOR FOR SUPPLY AND INSTALLATION OF CCTV

Bids are required for supply and installation of outdoor and indoor CCTV system including cameras, cable, tv etc. for Jhal Magsi gas Field, located at District Jhal Magsi Baluchistan. The detail requirement is attached at Annexure –I & Annexure-II.

- i. Bidder to quote the material & services as per Annexure-I & Annexure-II. Contract will be awarded to the lowest in total (Annexure-I + Annexure-II).
- ii. Delivery and installation must be made within 2 weeks at Jhal Magsi site Baluchistan after placement of purchase order.
- iii. The detailed inspection of delivery material will be carried out at site.
- iv. LD charges in case of late delivery will be imposed up to maximum 15% of the amount of PO excluding tax.
- v. Payment will be made after delivery of material and system installation/commissioning at site.
- vi. Partial payment or advance cannot be made in any case.
- vii. All participating companies should have at least 3 years' experience in supply/installation of CCTV system for which bidder must provide at least three (03) POs for supply/installation of CCTV system.
- viii. Lodging will be provided to the installation team free of cost but meal will be charged.
- ix. Bidder must comply with industry HSEQ practices.
- x. The bidder must provide valid tax registration certificate i.e. NTN and PST and business location/ address and telephone numbers.
- xi. Earnest money/ bid bond of Rs: **100,000**/- in the shape of P.O/ DO Bank Guarantee shall be submitted with the bid.

# **TECHNICAL EVALUATION CRITERIA**

Sr#	DESCRIPTION	MARKS	Min Qualifying Marks		
i	Valid NTN/PST certificate	10	10		
ii	Affidavit of Non-Black Listing duly attested by Notary Public	10	10		
iii	Business address and telephone number	10	10		
lv	Bidder must have three (3) years' experience in supply and installation of CCTV system. PO of last three years to be provided (at least three Nos of PO)	10	10		
v	Clean acceptance of the TOR	10	10		
	Total				

## FINANCIAL BID FORMAT

<u>Sr#</u>	Description	Quoted Price
1	Total Cost for Annexure-I (a)	
2	Total Cost For Annexure-II (b)	
	Grand Total (c = a+b)	

1- Bidder to quote the price inclusive of all taxes.

2- Contract will be awarded to the lowest in total

### Annexure-I

Annexure-I									
S.NO	REQUIRED ITEM	SPECIFICATIONS	Model	MANUFACTURER	QTY	UM	RATE	TAX	AMOUNT
1		Camera							
1.1	Boundary Wall Camera	-MAP, 132* CMOS image sensor, low illuminance, high image definition     -Outputs AMP (2686 x 1440) @25/30 (fps, and supports max. 4MP     [2688 x 1520) @20 (fps     12 ASS code; high compression rate, ultra-low bit rate     -Built-in R LED, max. IR distance: 30 m     BIOL SMART 124647 AM255 / fbewlie coding, applicable to various     bandwidth and storage environments     -Image Rotation, WDR, 3D KR, HLC, BLC, digital watermarking,     seplicable to various monitoring scenes     -Ahormality detection: Motion detection, video tampering, network     disconnection, DC confilt, Illegal al ccess, voltage detection     -I2V DC/P0 power supply     iPSC, protection			10	NOS			-
1.2	Pan-Tilt-Zoom (PTZ) Camera	Foal tength: 4.8 mm – 120 mm.     Foal Reage: 05 a00° cndless, Tit-1:5'to 90°.     Temperature: -40°C to +60° C operational range.     Video Compression. Smart H. 25:3-/H. 26:4; MMFG.     *25: Optical Zoom: Its 4.8 – 120mm lens provides a powerful 25x zoom, making it highly     effective for long-range surveillance.     *3tarlight Technology: This model supports low sight performance with 0.005 Lux     sensitivity in color mode and 0 Lux with 10.005 Lux     sensitivity in color mode and 0 Lux with 10:00 netres (128 feet).     *Should have 6 IN LEDS that allow for night vision up to 100 meters (128 feet).     *With 300 presets, 5 patterns, and auto-tracking features, It offer setensive control and     usutomization for dymamic surveillance needs.     *Cettified with IP66 for outdoor use, It also provides GKV lightning protection, making It     suitable for challenging environments.     Networking Components			2	NOS			
					-				
2.1	OFC 12 Core Fiber Cable	Types: Single-mode (OS2) / Multimode (OM3/OM4).     Construction: Central FRP member, water-blocking yarn, UV-resistant outer jacket.	12 CORE						-
2.2	POE Switch	Ports: 4 PoE ports, 2 uplink ports.     PoE Standards: IEEE802.3af, IEEE802.3at.				NOS			-
2.3	NETWORK VIDEO RECORDER	<ul> <li>Flange, Up to 250m Fbc transmission with watchlog functionality</li> <li>Smart H 2.547/Hz55/mart H.2467/Hz56 docting format</li> <li>Access, storage or forwarding at 255 Mbps (180 Mbps when Al function enables)</li> <li>Max. decoding capability: 16 × 1080p(#30 fps. Supports adaptive decoding</li> <li>All by VMT: 3-shanel face detaction and recognition; 2-shanel perimeter product Surplia. Surplia: Surpli</li></ul>			1	NOS			-
2.4	Giga Switch	S-Port Limmanaged Gigabit Switch Supports five 10/100/1000 Mbps adaptive ports. Specification Interviewer Included Hower Adapter YEE Ethernet Port S Ethernet Port Speed 10/100/1000 Mbps Description of Function State Port 1.5-5 1 20/100/1000 Base-T Power Supply SVDC1.4 Operating Temperature =0 °C 16 + 5°C (=21 °C + 115 °C) Poerafing Humidhy SS-95% (RH) Storage Temperature =0 °C 16 + 5°C (=21 °C + 115 °C) Poerafing Humidhy SS-95% SN(RH) Storage Temperature =0 °C 16 + 5°C (=21 °C + 115 °R) Poerafing Humidhy SS-95% SN(RH) Exect Consumption SIIIng: 0.5 W Full Ioad: 1.5 W Ferformance BTF 38.3.2 Have 3 soluting Capacity 10 GBIT Packle Towarding Rafe 7.4 Map Packlet Buffer Sate 1.5 MBI + AAC Table Size 2.4 General Statics Protection Art discharge: 8 W Contact Glocharge 4 V Lighting Protection Camom and exet 2.3 W Ret Weight Lol Eq. (0.3 5) Ib) Gross Weight C.28 Ig (0.26 Jb) Product Dimensions 8.7 mm × 47.0 mm × 2.0 mm 4.2.4 °L x 1.5 ° × 0.07 °P Packaging Damissions 9.4 mm mult 1.10 mm × 6.7 mm (30 ° 4.37 ° × 2.64°) Casing Material Metal Installation Desktop mount Certifications CE; FCC			2	NOS			
3		Storage, Display, and Other Accessories							-
3.1	Hard Drive	with trains resistance and Alexcue option.  Local/Inited (view 20000, rated for continuous operation.  -Capacity To Record atleast for 20 Days for the give TOR  -TTR at  -TTR -TTR -TTR -TTR -TTR -TTR -TTR -T		SEA GATE	2	NOS			-
3.2	LED 40"	-Recolution: 1920.21080 (Full HD), 40 <sup>o</sup> of Size -OS: Androld R, HRID Support -Connectivity: HOMI, USB, SPDIF, and A/V inputsWith Complete Rack and Fittings			1	NOS			-
4		Cabling and Infrastructure  •Core Types: Single-mode (OS1/OS2) / Multimode (OM1-OM4).			-				-
4.1	Fiber Patch Cord	Core Types: Single-mode (OS1/OS2) / Multimode (OM1-OM4).     Connector Options: LC, SC, ST, or MTP/MPD.     Jacket: FVC for Indoor, LSZH for fire safety, or armored for outdoor use	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
4.2	HDPE Pipe	Designed for secure underground or external fiber cable routing.     I' Outter Dia and 2.4mm = Thickness	COMPLIANCE TO INTL PN	VENDOR TO SPECIFY BRAND		MTR			
4.3	HDMI Cable (5m)	Features: Aluminum-Mylar shielding with PVC jacket.     Length to be 5 Meter	BEST QUALITY	VENDOR TO SPECIFY BRAND	1	NOS			-
4.4	UTP CAT6 Cable	Oxygen-free copper conductor with PVC sheath.     Compliant with PoE, flame-retardant, and supports high-speed networks.				MTR			-
		•23 Gauge Size			-				
5		Racks and Distribution Frames  •To house network switches, NVRs, and other components securely.							-
5.1	6U Rack with Accessories	With Complete accessories     1.2mm Thickness	METAL RACK	VENDOR TO SPECIFY BRAND	1	NOS			-
5.2	ODF 12 Port	Rack-mounted, loaded     Chassis: SPCC material, with ABS/PC trays for splicing.				NOS			-
5.3	ODF 4 Port	12 Port Converter     Rack-mounted, loaded	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
5.4	ODF 8 Port	chassis: SPCC material, with ABS/PC trays for splicing.     Rack-mounted, loaded     chassis: SPCC material, with ABS/PC trays for splicing.	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
6		Power and Waterproofing							-
6.1	Power Cable	Voltage Rating: 250-440V.     Insulation: PVC-protected for heat and moisture resistance.	MILLION SUPREME	MILLION SUPREME		COIL			
		-3-strand, 0.029 Inches each     -For secure outdoor equipment storage.							
6.2	Waterproof Steel Box	10" x 12" with key lock     1.2mm Thickness	METAL BOX GOOD GUAGE	VENDOR TO SPECIFY BRAND		NOS			-
7	Media Converter Giga	ADDITIONAL EQUIPMENT Media Converter Giga Standards and Protocols IEEE 802.3a, JEEE				NOS			
7.2	PVC Box (4"x4")	PVC Material	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
7.3	Wireless Mouse	Type: Wrielss Connection: 2.46.1H Ergonomic Design: Symmetric Sensor Technology: Optical Resolution: 1000 DPI Report Rate: 125.1H2 Buttons No.: 3 Buttons No.: 3 Buttons No.: 3 Breectiver: Nano USB Receiver Power Source: 1.04.Naliaine Battery System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10 Material SECC & SUSDAG			1	NOS			
7.4	PTZ Bracket	Domentation (Visited)   30 Ammu 2 Domma 5mm (5.13*6.69*1.77*) Mart Damete 40*0*150mm (40.315**5.91*) Fole mount bracket Load Bearing 74(31.54b) Weight 0.55kg(1.27b) Camera Mount Strike			2	NOS			-
7.5	Miscellaneous Equipment	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1" PVC, HDPE size and other items relevant to the Completion of CCTV Job.	BEST QUALITY	VENDOR TO SPECIFY BRAND	1	NOS			-
7.6	PVC CONDUIT	1 INCH PVC CONDUIT WITH ACCESSORIES	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
8			SERVICES:						
8.1	CCTV INSTALLATION, LED, CIVII WORKS, TESTING, COMMISSIONING, TRAINING & OTHER RELEVANT TO CCTV INSTALLATION	Installation: Secure mounting of cameras, proper cabling, LED and network configuration, Fiber Fusion Splicing and Winng, Civil Works: Digging, Trenching Electrification (where required) with back standard Filling along with Breakers and other components installation of equipment relevant to CCTV Job Completion Fiber Laying, LTP Laying and Power Cable with their conduits i.e., HDPE, PVC Pipe along with accessories (Clamp Distance on pipe to be at 31)	WORK COMPLETION CERTIFICATE	N/A	1	JOB			
9		Warranty and Compliance							-
9.1		All components and installation must meet industry standards.     Warranty: Manufacturer and vendor to provide standard warranties for all supplied items     for 1 year.     Safety Certifications: CE, FCC, RoHS, and others where applicable.	DOCUMENTS TO BE PROVIDED	N/A					
		SUB T GST							-
		BST							-
GRAND TOTAL							-		

#### Annexure-II

Annexure-II									
S.NO	REQUIRED ITEM	SPECIFICATIONS	Model	MANUFACTURER	QTY	UM	RATE	TAX	AMOUNT
1		Camera							
1.1	Indoor Plant Security Camera	12-MP 12.8° CMOS image sensor, low luminance, and high definition image. Outputs max. 2 MP (1920 × 1080)⊜30 fps. H 1265 codec, high compression rate, ultra-low lib rate. Built-in mult-core light, the max. (Relatance is 30 m and the max. warm light distance is 15 m. D WDR9, 30 MR, HL, G BLC, digital watermarking, applicable to various monitoring scenes. No (0)_SMART H 264 /H 265+, flexible coding, applicable to various bandwidth and storage environments.			4	NOS			-
		Built in Mic.     12 VDC/PoE power supply, easy for installation.							
		IP67 protection.     Supports human detection							
2		Networking Components     Types: Single-mode (OS2) / Multimode (OM3/OM4).	1						-
2.1	OFC 12 Core Fiber Cable	Construction: Central FRP member, water-blocking yarn, UV-resistant outer jacket.	12 CORE			MTR			-
2.2	POE Switch	•Ports: 4 PoE ports, 2 uplink ports.     •PoE Standards: IEEE802.3af, IEEE802.3at,     Range: Up to 250m PoE transmission with watchdog functionality			2	NOS			-
2.3	NETWORK VIDEO RECORDER	• Smart H.265 /H.265/Smart H.264 /H.264 /H.264 /M266 decoding format · Max. decoding capability: 6 × 1.800/9.801 (ps. Supports adaptive leciding - 1-channel Flace detection and recognition (A by WR); 1-channel perimeter protection (AI by WR); up to 10 face databases and 5,000 face images, 4-channel SMD Plux (A by WR); - Al by camera: Face detection and recognition, perimeter protection, and SMD Plus - Connected to the third-party network cameras - Security baseline 2.1 Multi-channel Playback Up to 16 channels Record Mode Manual record; alarm recordings; motion detection recording; s-tedelude recordings Storage Local HDD and network Backup USB device Playback Function - I, Play; pause; stop, fast forward; fast backward; rewind; play plrame 2. Full screen; backup (vide clip/file); partially zom in;			1	NOS			-
2.4	Giga Switch	audio on/off           Sport Ummanaged Gigabit Switch           Sport Ummanaged Gigabit Switch           Sport Tormanaged Gigabit Switch           Supplication Handware Included Power Adapter Yte Stehemet Port 5 Ethernet Port Speed           Supply SVDC: 1 A Operating Temperature 40° CT to +15° (+32° Ft o+113°f) Operating           Hummidity Six-65% (RH) Storage Temperature 40° CT to +10° CT (+32° Ft o+113°f) Operating           HumMidity Six-65% (RH) Power Consumption Idling: 0.5 W Full Ioad: 1.5 W Performance           NUTFJ 363.2 & 42 m Switching Capacity 10 Gbit Packet Frowarding Hat - 24 Mipps Packet           Buffer Six=1.5 Mbit MAC Table Size 2X General Statics Protection Air discharge: 8 kV           Contact Gischarge: 4 kV Lighting Protection Common mode: 24 NV RW Bitght 0.16 kg (0.32 lb)           Bitght Size: 0.28 lb (0.28 lb) Product Dimensions 8.70 mm x4.20 mm x2.20 mm           GiAV * 1.85* NGT "Packaging Dimensions 9.40 mm x1.10 mm x2.20 mm           GiAV * 1.85* NGT "Packaging Dimensions 9.40 mm x1.10 mm x2.07 mm x2.43 mm x2.43 mm x2.43 mm x2.43 mm x2.44 mm			1	NOS			-
3		Storage, Display, and Other Accessories     with tarnish resistance and +Rescue option.		1					-
3.1	Hard Drive	Load/Unload Cycles: 300,000, rated for continuous operation.     Capacity To Record atleast for 20 Days for the give TOR			1	NOS			-
3.2	LED 32"	4/TB X 3     4/TB X 3     Resolution: 1920:L1080 (Full HD): 32" of Size     •OS: Android R, HDR10 support:     •OS: Android R, HDR10 support:     •Connectivity: HDMI, USB, SPDF, and AV inputs.     •Wht Complete Rack and Fittings			1	NOS			-
4		32" Cabling and Infrastructure							-
4.1	Fiber Patch Cord	Core Types: Single-mode (OS1/OS2) / Multimode (OM1-OM4).     Connector Options: LC, SC, ST, or MTP/MPO.	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			
4.2	HDPE Pipe	Jacket: PVC for indoor, LSZH for fire safety, or armored for outdoor use     Designed for secure underground or external fiber cable routing.	COMPLIANCE TO INTL PN	VENDOR TO SPECIFY BRAND		MTR			
4.3	HDMI Cable (5m)	•1" Outter Dia and 2.4mm ≈ Thickness     •Features: Aluminum-Mylar shielding with PVC jacket.	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
4.4	UTP CAT6 Cable	Length to be 5 Meter     Oxygen-free copper conductor with PVC sheath.     Compliant with PoE, flame-retardant, and supports high-speed networks.				MTR			-
5		•23 Gauge Size     Racks and Distribution Frames							
5.1	4U Rack with Accessories	•To house network switches, NVRs, and other components securely.	METAL RACK	VENDOR TO SPECIFY BRAND		NOS			-
5.2	ODF 4 Port	With Complete accessories     Rack-mounted, loaded     Chassis: SPCC material, with ABS/PC trays for splicing.	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
6		Power and Waterproofing	•						-
6.1	Power Cable	Voltage Rating: 250-440V.     Insulation: PVC-protected for heat and moisture resistance.	MILLION SUPREME	MILLION SUPREME		COIL			-
6.2	Waterproof Steel Box	-3-strand, 0.029 inches each     For secure outdoor equipment storage.     10" x 12" with key lock	METAL BOX GOOD GUAGE	VENDOR TO SPECIFY BRAND		NOS			-
7		1.2mm Thickness  ADDITIONAL EQUIPMENT							
7.1	Media Converter Giga	Media Converter Giga Standards and Protocols EEE 802.3, IEEE 802.3a, IEEE 802.3a Auto-negotation of Half-Ouplex/Full-Ouplex transfer mode Ports, 11000M SP port, 110/1000M R4S port (Auto MDI/MDIX) Wave Length, Depends on the used SPP module Network Media 10006A5: X Multi-mode/Single-mode SPP module Network Media 10006A5: T UTP category 5, Se cable (maxium 100m) IEED Indicators, PWA, Link/Act Dimensions (WVH), J372.2971.1 in: (94.5*73.0*27.0 mm) Power Supply, External Power Adapter Mar Power Consumption.1 TW Safety & Emission,FCC, CE, RoH5 Operating Temperature: 0/CY 0/CY (32*P=104*P) Storage Temperature: -0/CY 0/CY (32*P) Storage Temperature: -0/CY 0/CY (32*P) Stor			2	NOS			-
7.2	PVC Box (4"x4")	PVC Material	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			
7.3	Wireless Mouse	Type: Wireless Connection: 2.46 Hz Ergonomic Design: Symmetric Sensor Technology: Optical Report Rate: 125 Hz Buttons No.: 3 Receiver: Nano USB Receiver Power Source: 1.AA Alkaline Battery System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10			1	NOS			-
		System negarements, mindows at 7 mild 777676.1716	1			NOS			-
7.4	Miscellaneous Equipment	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1" PVC, HDPE size and other items relevant to the Completion of CCTV Job.	BEST QUALITY	VENDOR TO SPECIFY BRAND					
7.5	Miscellancous Equipment	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1" PVC, HDPE size and other	BEST QUALITY	VENDOR TO SPECIFY BRAND		NOS			-
7.5 <b>8</b> 8.1		Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1° PVC, HDPE size and other terms relevant to the Completion of CCTV Job. 1 INCH PVC CONDUIT WITH ACCESSORIES Installation: Secure mounting of cameras, proper cabling, LED and network configuration, Fiber Fusion Splicing, Wring Electrification (where required) and Enclosues installation with breakers and other components installation of equipment relevant to CCTV Job Completion CVV Works: Diging, Trenching with back standard Filing Fiber Laying, UTP Laying and Power Cable with their conduits i.e., HDPE, PVC Pipe along with accessories (Clamp Distance on pipe to be at 3ft			1	NOS			-
7.5 8	PVC CONDUIT CCTV INSTALLATION, LED DISPLAY SETUP, CIVIL WORKS, TEXING, COMMISSIONING, TRAINING, AND OTHER SERVICES RELATED TO CCTV	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1° PVC, HDPE size and other terms relevant to the Completion of CCTV Job.  I INCH PVC CONDUIT WITH ACCESSORIES  Installation: Secure mounting of cameras, proper cabling, LED and network configuration, Fiber fusion Splicing, Wiring Electrification (where required) and Enclosures installation with breakers and other components installation of equipment relevant to CCTV Job Completion CVM Works: Digging, Trenching with back standard Filing Fiber Laying, UT Purying and Power Cable with their conduit i.e., HDPE, PVC Pipe along with accessories (Clamp Distance on pipe to be at 31t Warranty and Compliance •All components and installation must meet industry standards.	BEST QUALITY SERVICES: WORK COMPLETION CERTIFICATE	VENDOR TO SPECIFY BRAND	1				-
7.5 <b>8</b> 8.1	PVC CONDUIT CCTV INSTALLATION, LED DISPLAY SETUP, CIVIL WORKS, TEXING, COMMISSIONING, TRAINING, AND OTHER SERVICES RELATED TO CCTV	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1° PVC, HDPE size and other terms relevant to the Completion of CCTV Job.  I INCH PVC CONDUIT WITH ACCESSORIES  Installation: Secure mounting of cameras, proper cabling, LED and network configuration, Fiber fusion Splicing, Wring Electrification (where required) and Enclosuers stallation with breakers and other components installation of expument relevant to CCTV bib Completion Cvi Works: Digging, Trenching with back standard Filing Fiber Laying, of Yoeva Cable with their conduits Le., HDPE, PVC Pipe along with accessories (Clamp Distance on pipe to be at 3ft  Warranty and Compliance  All components and installation must meet industry standards. Warranty: Manufacturer and vendor to provide standard warranties for all supplied items for 1 year - Safery Certifications: CE, FCC, RoHS, and others where applicable.	BEST QUALITY SERVICES: WORK COMPLETION CERTIFICATE DOCUMENTS TO BE PROVIDED BY VENDOR	VENDOR TO SPECIFY BRAND	1				-
7.5 8 8.1 9	PVC CONDUIT CCTV INSTALLATION, LED DISPLAY SETUP, CIVIL WORKS, TEXING, COMMISSIONING, TRAINING, AND OTHER SERVICES RELATED TO CCTV	Includes ties, clips, flexible pipes, clamps, sockets, elbows, for 1° PVC, HDPE size and other terms relevant to the Completion of CCTV Job.  I INCH PVC CONDUIT WITH ACCESSORIES  Installation: Secure mounting of cameras, proper cabling, LED and network configuration, Fiber fusion Splicing, Wirng Electrification (where required) and Enclosures installation with breakers and other components installation of equipment relevant to CCTV Job Completion CvW Works: Digping, Trenching with back standard Filing Fiber Laying, UT Purking and Power Cable with their conduits i.e., HDPE, PVC Pipe along with accessories (Clamp Distance on pipe to be at 3ft Warranty and Compliance •All components and installation must meet industry standards. •Varranty: Manufacturer and vendor to provide standard warranties for all supplied items for 1 year •Safety Certifications: CE, FCC, RoHS, and others where applicable.	BEST QUALITY SERVICES: WORK COMPLETION CERTIFICATE DOCUMENTS TO BE PROVIDED BY VENDOR	VENDOR TO SPECIFY BRAND	1				-