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	OIL & GAS DEVELOPMENT COMPANY LIMITED PAKISTAN	
	OGDCL, Korangi Base Store, Karachi	
PROJECT TITLE		
Procurement & Installation / Commissioning of CCTV System for KORANGI BASE STORE, OGDCL		
<p style="text-align: center;">TE/MMD/KBS 004/2023 CCTV procurement & Installation / Commissioning of CCTV System for KORANGI BASE STORE, OGDCL</p>		

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1. INTRODUCTION

Oil and Gas Development Company Ltd (OGDCL) is Pakistan's National Oil & Gas Exploration and Production Company. OGDCL is currently operating Country's largest Oil & Gas sector.

OGDCL intends to install standalone CCTV Camera system for KBS for the purpose of 24/7 security surveillance. The below specifications cover the minimum requirements that must be fulfilled however, this does not relieve the bidder to supply industry standard equipment, supply of auxiliary equipment necessary for operation of system and make the system functional as per OGDCL requirement.

2. SCOPE OF SUPPLY / WORK

S#	Quantity	Description
1	01 complete system	Complete CCTV camera surveillance system comprising of at least 12 Nos 4MP IP Bullet CCTV cameras along with all related accessories as mentioned in General Specifications. The BOM as well as price breakup of all components must be specified clearly in price schedule. System Architecture Drawing and General Arrangement Drawing of complete System to be provided with Bid. NOTE: Flexibility to extend number of Cameras must be present in order to meet any future expansion requirement.
2	01 Job	Installation & Commissioning Services, Performance Testing of Complete System with Operational / Troubleshooting Training at Site. Lump-Sum price with estimated Man-days must be indicated in bid.

3. GENERAL SPECIFICATIONS OF SYSTEM

This system is intended to be used for round the clock security surveillance in Oil & Gas Korangi Base Store. The security cameras must have 4K resolution recording, long-range colour night vision, and extreme weather capabilities. The NVR at least have 32 channel, min 4k 30fps recording, incoming bandwidth of Max 320 Mbps, 2 SATA Drives, 2 USB ports, 2 HDMI ports, 1 VGA Port & support up to 24MP cameras and 30days recording backup. The offered system must be suitable for use within this facility.

CCTV Specifications:

1. 4MP Bullet Image Sensor 1/3" CMOS
2. Electronic Shutter Speed Auto/Manual 1/3 s–1/100,000 s
3. S/N Ratio > 56 dB
4. Illumination Distance 30 m(IR)

5. Built-in Battery Support SUPERCAP 0.08 F
6. Iris Control Fixed
7. Video Compression H.265; H.264; H.264B; MJPEG
8. Installation Wall mount; ceiling mount; pole mount

CCTV Specifications for Motorize Zoom:

1. 4MP Bullet Image Sensor 1/3" CMOS Motorize Zoom
2. Lens Type Motorized Vari-focal
3. Focal Length 2.7 mm–13.5 mm
4. Intrusion; tripwire
5. Video Frame Rate 50Hz
6. OFF/ON (4 areas, rectangular)
7. SDK and API
8. ONVIF (Profile S/Profile G); CGI; Milestone; Genetec

NVR & Accessories Specifications:

Main Processor: Industrial embedded Micro-Processor or better

1. 1U 2HDDs Network Video Recorder
2. Operating Altitude 3000 m (9842.52 ft)
3. Audio PCM/G711A/G711U/G726/AAC
4. 8 × 1080p@30 fps Decoding Cap
5. Access Channel 32
6. Web/operating in local GUI

Civil work details:

Digging/Refilling with proper Optical Fibre cable laying is required UPTO 1000 ft KBS.

All, & specifications outside Laying of optical fibre beside the boundary walls is included in scope. Optical fibre must be laid one feet's below ground to be installed in ducts, or placed in underground enclosures with special protection from dirt and clay intrusion Digging/Refilling & splicing work is in Bidder's scope. The Approx. Optical Fibre cable required UPTO 1000 Ft KBS. Optical fibre will not be provided by OGDCL.

4. SCOPE OF WORK

Bidder must provide Installation and Commissioning services at site. After successful Installation & Commissioning of this system, the performance testing will also be carried out. Operational and Troubleshooting Training must be delivered after successful commissioning and Performance Testing. Qualified personnel must be deputed to complete this job.

5. SCOPE OF SUPPLIES

Below is the minimum estimated BOQ, any material/service to complete the functionality and to meet the scope of work also to be included.

Sr No	Description	Unit	QTY
1	32Channel 4K Network Video access, Smart H.265+/H.265/Smart H.264+/H.264/ · Max 320Mbps Incoming Bandwidth, Up to 24MP Resolution for live and Playback. With Box and fitting.	Nos.	1
2	4Megapixel progressive CMOS, Focal Length: 2.7 mm–13.5 mm, Tripwire; intrusion, H.265; H.264; H.264B, IP67, ·Supports max. 256 GB Micro SD card, ·Built-in IR LED, max IR distance: 60 m.	Nos.	10
3	Motorize Zoom 4MP Bullet Image Sensor 1/3" CMOS Motorize Zoom Lens Type Motorized Vari-focal Focal Length 2.7 mm–13.5 mm Intrusion; tripwire Video Frame Rate 50Hz OFF/ON (4 areas, rectangular) SDK and API ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	Nos	2
4	Hard Disk Drive for Storage Surveillance Grade 8TB	Nos.	1
5	Desktop Network Switch 8 Ports Gigabyte with Box	Nos.	1
6	PVC Waterproof installation Box Size 4x4"	Nos.	12
7	CAT6 4Pair Sunshield Twisted 23AWG Network Cable	Feet	3000
8	UPVC Pipe 1 Inch with Fitting Accessories	Feet	3000
9	Iron Saddle Clamp with Screws	Nos.	400
10	Fiber Media Converter, Gigabit with Dual Fiber	Pair	01
11	Hard Digging, Road Cutting Depth 1 Feet with Refilling of Concrete Material	Feet	1000
12	Fiber Fusion Splicing	Job.	4
13	Installation of Cameras, NVR, network Switches, Laying of Power & Network Cables along with Fiber Splicing, Testing, Commissioning & training	Job	1

6. DELIVERABLES

Following is the minimum list of documents to be produced and delivered as part of supply / work scope. Nevertheless, it is not exhaustive list and bidder will be required to provide all standard documents as per industrial standards to achieve this work scope.

- a. Network drawings& Architecture
- b. Optical fibre laying marking and layout.
- c. CCTV layout and drawings
- d. Traceable Warranty Certificates of all related equipment.
- e. Instruction Manuals & Troubleshooting Manuals of CCTV/NVR system.
- f. Required software and plugins CDs with Licenses if required.
- g. Username, Passwords, IP Addresses of System

7. AMBIENT CONDITIONS

Ambient Temperature Range: 0 to 50 C

Relative Humidity: 20% to 77%

Maximum Wind Velocity: 100 mph

8. AVAILABLE UTILITIES

- 220 VAC, 50 Hz. Electric Power.

9. WARRANTIES AND GUARANTEES

Engineering Company will be required to render warranties for all of the material supplied as part of this document. The material will be brand new and free from any engineering defects and/or deficiencies. Any of the flaws/ defects/ deficiencies found at later stage, shall be rectified by the Bidder at no extra cost to OGDCL”.

10. GENERAL TERMS & CONDITIONS

- Company will not provide accommodation and food.
- All deliverables to be produced by Bidder will be in English language.
- OGDCL reserves the right to monitor/ assess the performance of Bidder to ensure conformity with the CONTRACT Documents. Bidder shall promptly rectify all such deficiencies and/or flaws that are brought to their knowledge by OGDCL. OGDCL’s review/approval of engineering, design and/or any other documents shall not relieve the Bidder from any of their responsibilities/ accountabilities and obligations under the CONTRACT/ PO.
- The utilities available at site are indicated above; any other arrangements required at OGDCL end must be stated explicitly in Bid.
- If any special tools are required for Installation / Commissioning, Operation, Maintenance and troubleshooting of offered system, these should be arrange by contractor.
- Detailed relevant Technical literature (English) must be submitted with bid.
- Quote original make & origin of all above items.
- Incomplete quotations shall not be considered for technical evaluation
- Meets the delivery period / point for the Goods / the Services

- We reserve the right to cancel any or all the items if material is not in accordance with our specification or if the delivery is delayed.
- The Bidder shall be registered/active Tax payer list.
- Performance Bond **10%** of Total value must be submitted by lowest bidder.

11. DOCUMENTS TO BE SUBMITTED ALONG WITH BID

Bidder to please submit quote in their standard format along with description of timeline for completing the supply and installation / commissioning job.

- a. Functional Design Description of system with operation description of offered system
- b. BOM of offered System listing all offered components and price breakup
- c. General Arrangement Drawing
- d. System Architecture Drawing
- e. Bidder should submit with their bid, printed technical literature of offered equipment.
- f. Bid bond **2% (estimated value)** must be submitted with Technical Bid.

12. COMMERCIAL QUOTE SUBMISSION

Bidder to please submit quote in their standard format. All taxes are to be inclusive.

13. EXCEPTIONS, DEVIATIONS AND EXCLUSIONS

Please mention in quote, if there are exceptions and exclusions against this requirement.

14. Required Documents For Technical Evaluation

- i. NTN Certificate.
- ii. SNTN Certificate.
- iii. Affidavit of Non-Black Listing duly attested by Notary Public.
- iv. Satisfactory Bank Account Certificate.
- v. Last year sales tax paid form.
- vi. Company Profile with Offices detail in Karachi or in Pakistan.
- vii. Proof of experience with govt/semi govt or private Organization.