



|                                  |                                 | OIL & GAS DEVELOPMENT COMPANY LIMITED PAKISTAN |  |    |      |  |  |
|---|---------------------------------|--|--|----|------|---|--|
|   |                                 | KPD-TAY GAS & LPG PROCESSING PLANT             |  |    |      |   |  |
| PROJECT NO  | PROJ TYPE                       | PROJ PHASE                                     | PROJECT TITLE  |    |      | MAXIMO NO   |  |
|   |                                 |  | Procurement & Installation / Commissioning of CCTV System KUC-1 Well near KUNNAR / KPD-TAY FIELD |    |      |   |  |
| DOCUMENT NO.1   | CCTV SYSTEM TORs FOR KUC-1 WELL |  | REVISION   | 3  | DATE | 09-07-2022  |  |
| <h2>Procurement &amp; Installation / Commissioning of CCTV System for KUC-1 Well near KUNNAR / KPD-TAY FIELD</h2> |                                 |  |  |    |      |   |  |
|   |                                 |  |  |    |      |   |  |
| 3   | 09-07-2022                      | Issued for Quote                               |  | AA | AK   |   |  |

| REV | DATE | DESCRIPTION | PRPD BY | CHKD BY | APPD |
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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.

KPD-TAY Integrated Development Project Phase-II is a Gas & NGL Processing Plant, located in Hyderabad District about 25 km away from Hyderabad and approx. 195 km from Karachi, Sindh Province of Pakistan.

OGDCL intends to install standalone CCTV Camera system for boundary wall and entrance gates for the purpose of 24/7 security surveillance in security main gate. 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 04 4MP PTZ Speed Doom Cameras with mounting kits & sheds along with all related accessories. 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.<br><b>NOTE: Flexibility to extend number of Cameras must be present in order to meet any future expansion requirement.</b> |
| 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 at OGDCL KUC-1 well premises and entry gates. The security cameras must have 4K resolution recording, long-range colour night vision, extreme weather capabilities, and metal exterior with sheds. The NVR at least have 16 channels, 1 SATA Drive, 2 USB ports, 2 HDMI ports, support up to 12MP cameras and one-month recording backup. The offered system must be suitable for use within this facility.

## **CCTV Specifications:**

### **PTZ CAMERA:**

1. 4MP, 4K, High Resolution,
2. 3D DNR (Digital Noise Reduction)
3. Face Detection, built-in IR LED, min. IR distance: 100 m
4. IP66 protection, complies with CE: EN55032/EN55024/EN50130-4, UL: UL60950-1+CAN/CSA C22.2, No. 60950-1, FCC: FCC: Part15 sub part B, ANSI C63.4-2014

### **NVR& Accessories Specifications:**

1. Embedded LINUX, Quad-core embedded processor or better
2. 8MP recording resolution, HDMI and VGA simultaneous video output
3. Database Management up to 10 face databases
4. Database application each database can be applied to video channels independently.
5. Built in vehicle recognition, face recognition feature and web based reports.
6. 1 X 32" LED display
7. Manageable network Switch
8. Hard Drive, RAID 5, min. 30 days recording backup
9. IP 67 CCTV networking equipment outdoor protection box
10. 4 Pair UBNT Light Beam Wireless Link

### **Civil work details:**

All Cameras will be installed on the iron brackets with shed protection. Length & design of the iron brackets and sheds should be finalised by the bidder. Digging/Refilling/proper conduit work of power & networking cables is in Bidder's scope.

## **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.

For Service Engineers / Personnel Accommodation and food arrangement at Site will be in OGDCL scope. Estimated Man-days required to complete the job must be specified in bid.

## 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. (NOTE: This is Tentative BOM of required CCTV System, however offered BOM and system Components may differ depending upon OEM system design)

| S. No | Material Description  | Quantity No. |
|-------|---|--------------|
| 1.    | PTZ SPEED DOOM Camera with Mounting Kits & Sheds - Up to 4 megapixel high resolution, VARI-focal lens, Up to 100 m IR range, 3D DNR (Digital Noise Reduction), Poe (Power over Ethernet), IP 66 | 04 Nos.      |
| 2.    | NVR 16 Channel 4MP Recording Resolutions. H.265 .2 SATA Interface.  | 01 No.       |
| 3.    | UBNT LITE BEAM WIRELESSLINK   | 04 Pair.     |
| 4.    | Hard Drives for Storage, surveillance grade, 6 TB   | 01 No.       |
| 5.    | Network Switch 8 Ports  | 02 No.       |
| 6.    | Network Switch 4 Ports  | 04 Nos.      |
| 7.    | Cat 6 Cable RFT (1000 ft. box)  | 01 Roll      |
| 8.    | UPVC Conduit outer Dia 1 inch (3/4" inner dia) with complete fittings and accessories   | 100 Meter    |
| 9.    | AC Power Cable 2 single core coils 2.5 mm PVC insulation Copper 99 %. New age/Pakistan cable.   | 100 Meter    |
| 10.   | GI Flexible Pipe 1" Dia with PVC coated.  | 100 RFT      |
| 11.   | 32 inch LED Display for CCTV Monitoring, with accessories and stands  | 01 Nos.      |
| 12.   | Baby Rack with Circuit Breakers   | 04 Nos.      |
| 13.   | Pole 10 ft (For Mounting of Cameras)  | 04 Nos.      |
| 14.   | RJ-45 Connectors (100 Pc)   | 01 Box       |
| 15.   | UBNT LITE BEAM WIRELESSLINK   | 04 Pair.     |
| 16.   | Installation of cameras, NVR, networking switches, Digging & Refilling for laying of Power & Networking Cables (if Required), Splicing ,Testing, commissioning & Training                       | 01 Job       |

## 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. CCTV layout and drawings
- c. Traceable Warranty Certificates of all related equipment.
- d. Instruction Manuals & Troubleshooting Manuals of CCTV/NVR system.
- e. Required software and plug-in CDs with Licenses if required.
- f. Username, Passwords, IP Addresses of System

## 7. AMBIENT CONDITIONS

Ambient Temperature Range: 0 to 50 Deg C

Relative Humidity: 20% to 77%

Maximum Wind Velocity: 100 mph

## 8. AVAILBLE 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 provide accommodation to Engineering Company personnel at their camp located within the close proximity of KPD-TAY Gas Processing Plant.
- 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 also be brought in to buyer’s attention in bid.

## **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.

## **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.

**ANNEXURE-2****14. TECHNICAL EVALUATION CRITERIA OF BIDS**

This criterion is developed to evaluate the technical bids to be submitted for supply, Installation & Commissioning of CCTV System are as follows:

| Sr. | Criteria  | Qualification Points |             | Requirement/ Reference   |
|-----|---|----------------------|-------------|--|
|     |   | Min. Points          | Max. Points |  |
| 1   | Minimum <b>Ten years'</b> experience for designing , integrating& supply of CCTV Systems  | 10                   | 15          | <p><b><u>Bidders to submit:</u></b></p> <p>1.1 Company Design Experience profile/description of design work</p> <p><b><u>NOTE:</u></b> Bidders must obtain 10 points to achieve technical bid compliance requirement. 1 year correspond to 1 point.</p>  |
| 2   | Offered CCTV System must meet the required specifications & terms and conditions.<br><br>Filled Annexure-2 must also be submitted for technical compliance. | 45                   | 50          | <p><b><u>Bidders to Submit:</u></b></p> <p>2.1 Technical literature of offered CCTV System,</p> <p>2.2 Filled Annexure-2 of this document</p> <p><b><u>NOTE:</u></b> Bidder must obtain 45 points to achieve technical bid compliance requirement. OGDCL may require further information during bid evaluation stage and Bidders will be bound to produce all the requested information to fulfil technical evaluation criteria/ requirements.</p> |
| 3   | Minimum <b>five years'</b> experience of Company for Installation & Commissioning of CCTV Systems.  | 15                   | 15          | <p><b><u>Bidders to submit:</u></b></p> <p>3.1 Company Experience profile/description of their work completed under category of installation &amp; commissioning of CCTV System.</p> <p><b><u>NOTE:</u></b> Bidders must obtain 15 points to achieve technical bid compliance requirement.</p>   |



|                     |   |           |            |  |
|---------------------|---|-----------|------------|--|
| 4                   | Delivery schedule   | 10        | 10         | <p><b><u>Bidders to submit:</u></b></p> <p>4.1 delivery schedule/ duration stating minimum possible delivery period of offered system but not more than 8 – 10 Weeks.</p> <p>4.2 It must be noted that countdown for delivery period will start from issuance of PO (Formal Purchase Order Issued from HO)</p> <p><b><u>NOTE:</u></b> Bidders must obtain 10 points to achieve technical bid compliance requirement.</p> |
| 5                   | Local support should be available for after sales support, repair & troubleshooting, if required in future. The company should have relevant service personnel to address the operational issues of offered system. | 10        | 10         | <p><b><u>Bidders to submit:</u></b></p> <p>5.1 Relevant documentation.</p> <p><b><u>NOTE:</u></b> Bidders must achieve 10 points to achieve technical bid compliance requirement.</p>  |
| <b>Total Points</b> |   | <b>90</b> | <b>100</b> |  |

**TECHNICAL QUALIFICATION NOTES:**

Bidders must obtain 90 points to qualify as "Technically Compliant"

**NOTE: The commercial bids of technically qualified/ compliant bidders will be opened only in accordance with OGDCL SCM standard criteria**

**ANNEXURE-3**

**15. EXCEPTIONS, DEVIATIONS AND EXCLUSIONS**

1. Bidders to please submit detailed Exceptions, Deviations and Exclusions (Including those related to financial bid, in un-priced format) along with Technical Bids under this Annexure.
2. No further exception will be allowed to the Bidder, if asked after award of PO, but not mentioned this annexure.
3. In case of no exceptions, bidders to please mention **“NOEXCEPTIONS, DEVIATIONS AND EXCLUSIONS UNDER ANNEXURE 2”**.

| Sr.# | Details of Exceptions Deviation & Exclusions |
|------|--|
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