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| KED Project Number | 20013780 |
| Project Name | TVA Allen |
| Location | Memphis |
| Specification | 873 - Security |

SECURITY SCOPE OF WORK **[ENGINEER TO EDIT BLUE HIGHLIGHTED SECTIONS]**

Provide quote for design, supply, and commissioning (**installation as an option**) of the Security system and necessary materials in accordance with the specification, with the following scope break:

1. Supply and install the following components ([[PTZ/fixed]]Camera, Monitor, Switches/Controllers, Card reader, Key card, Keypad, and/or Security Panel) for a complete and functioning security system including but not limited to: *(Engineer will determine where the following components will be placed and it quantities base on owner RFP and/or Kiewit standard)[Note to Designer: Edit list to include any other required equipment either by the RFP or KED Standard]*
   1. Main Gate [In Example, 1 card reader, 1 keypad, and 1 PTZ camera]
   2. Control Room [ ]
   3. PEECC [ ]
   4. STG Enclosure [ ]
   5. CEMS Enclosure [ ]
   6. Medium Voltage Electrical Enclosures [ ]
   7. ACC Electrical Enclosure [ ]
   8. ACHE Electrical Enclosure [ ]
   9. Cooling Tower Electrical Enclosure [ ]
   10. Gas Compressor Panel Enclosures [ ]
   11. Auxiliary Boiler Electrical Module [ ]
       1. Panel Enclosure for PLC’s or programmable relays [ ]
   12. Diesel Generator Control Cabinet and/or any other control cabinets external to main enclosure [ ]
   13. Diesel Generator Enclosure [ ]
   14. Fire Pump Electrical Enclosure [ ]
   15. Water Treatment Electrical Room [ ]
   16. Any programmable device not contained within one of the above locations [If there are additional location that might need the following equipment’s above, uses the space below. Otherwise, delete this section]
       1. Location (Enter location here) [ ]
       2. Location (Enter location here) [ ]
2. Detection System (If required, if not then you can delete this section)
   1. Perimeter Breach Detection System
      1. The Breach Detection systems should be a fully integrated complete system.
      2. Perimeter Breach detection shall provide protection along perimeter fence, approximately [enter the linear feet here] linear feet. Include Manufacturer’s standard signal transmission cable, associated transceivers, control equipment, and mounting devices per these specifications.
   2. Intrusion Detection System (IDS)
      1. The IDS systems should be a fully integrated complete system.
      2. IDS shall be mounted on Purchaser’s installed chain link fence per manufacturer’s specifications around 100% of the fence, approximately [enter the linear feet here] linear feet.
      3. IDS will be *fence mounted fiber optic perimeter intrusion cable and sensors. The IDS shall monitor the entire facility perimeter and shall be capable of detecting persons leaning up against, climbing, or cutting the perimeter fence. Detection of persons tunneling under or hurdling over the fence is not required.*
      4. *The intrusion system controller shall be mounted in a 19-inch rack in the administration building telecommunications room and shall provide alarms to the security monitoring panels located in the* control*/administration building receptionist area and control room. Location of alarms shall be provided as part of the alarm information.*
3. Intercom system will be place at the following location:
   1. Location [ please enter where will the intercom system be placed ]
      1. Incoming Traffic will use either intercom/key card
         1. Employees will use their key card to enter the premise
         2. Visitors will have to go through the intercom/telephone to contact the plant control room for granting access to enter the premise.
      2. Outgoing Traffic
         1. Cars will go through a ground loop detection at the gate and it will automatic open for outgoing traffic.
   2. Location [If there are more than one places where the intercom system will be placed. If not, delete this section]
      1. Incoming Traffic will use either intercom/key card
         1. Employees will use their key card to enter the premise
         2. Visitors will have to go through the intercom/telephone to contact the plant control room for granting access to enter the premise.
      2. Outgoing Traffic
         1. Cars will go through a ground loop detection at the gate and it will automatic open for outgoing traffic.
4. Division of Responsibility
   1. Supply and Install by Kiewit:
      1. U/G Raceway to Devices
      2. Main Fiber Network between Panels
      3. Power within 50 feet of Devices
   2. Design and Supply by Vendor:
      1. Control, Power and Communication Cable (If proprietary construction)
      2. Mounting Equipment
      3. Hardware Equipment (such as Junction box, panel, and etc.)
   3. If **installation option** is included in the package, Vendor shall provide the following:
      1. A/G Raceway
      2. Control, Power and Communication Cable (If proprietary construction)
      3. Mounting Equipment
      4. Hardware Equipment (such as Junction box, panel, and etc.)
5. Documents Included with the RFQ:
   * 1. Security Specs (Fill In) Datasheet
     2. Area map (plot plan) w/ security take off
     3. Section 1B *[Can we add area code with a copy of the GA for the location of the piping. The SUDA report has the area listed in column B the piping line list also has the area listed in column F.]*