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| **用户需求书**  **一、采购项目名称：**陵水黎族自治县农村污水处理设施智能化在线监控项目（二期）  **二、本次采购金额：￥3461000.00**元，投标人投标报价不得超出采购金额。  **三、采购范围：**本项目在陵水县125个村庄的污水处理站进行整改，因此安装污水处理设施智能化在线监控集成管理系统共125套：其中包含远程智能实时监控设备125套、监控摄像设备设施125套、流量检测仪125套，各站点的自动控制运行规则及工艺流程动态界面UI设计，以及配套的土建安装工作。  **四、合同履行期限：**180日历天。  **五、采购地点**: 陵水黎族自治县。  **六、付款方式：**以双方合同约定为准。  **七、质量标准：**合格。  **八、设备售后服务期及质保期：**1年。  **九、需求清单：**  1、产品参数   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 序号 | 厂商 | 名称 | 参考规格及技术参数 | 数量 | 单位 | 其他要求 | | 1 |  | 远程智能实时监控设备 | 1. 支持4G全网通移动网络连接，并具有 1 路以太网接口。 2. 支持1 路 485 接口，支持modbus 协议，485 信号采用光偶隔离,隔离部分独立供电功能。   3.支持 16 路开关量检测接口，可以扩展增加，接口采用光偶隔离。  4.支持12 路继电器输出接口，可以扩展增加，驱动信号光偶隔离。  5.支持自动控制功能，可按流程图所制定的控制规则来控制各电机运行。  6.支持电机故障检测功能。  7.设备自带锂电池，可自行运行 8 小时。  8.支持远程升级功能。 | 125 | 套 |  | |  |  |  |  |  |  |  | | 2 |  | 监控摄像设备设施 | 1. 像素200 万 4 寸 23 倍红外网络球机。   2.支持视频输出 1920×1080@25fps，分辨力不小于 1100TVL， 红外距离可达 240米。  3.具备存储功能，支持 SD 卡热插拔，配套 256 GB MicroSD 卡存储。  4.支持区域入侵、越界入侵、徘徊、物品移除、物品遗留、人员聚集、停车，并联动报警功能。  5.支持智能红外、透雾、强光抑制、电子防抖、数字降噪、防红外过曝功能。  6.符合《公共安全视频监控系统信息传输、交换、控制技术要求》（GB/T28181-2016）要求。 | 125 | 套 |  | | 3 |  | 电磁流量检测仪 | 1. 流量测量显示量程比1：10。   2.流速范围0.3~15m/s。  3.测量精度1.5级。  4.介质温度-20℃~+180℃.  5.压力1.6Mpa.  6.环境温度-20℃~+50℃，湿度≤85%，气压86kpa~106kpa。  7.输出信号：输出频率0-5KHz ；电压输出1-5V电流输出4～20mA、RS-485串行接口，Mudbus协议。  8.断电数据保存时间10年 。  9.电源外供220VAC±15%。  10.防护等级IP68。  11.安装型式分体型（壁挂式） | 125 | 台 |  | | 4 |  | 工艺流程动态界面UI设计 | 1.根据每个污水处理站使用的污水处理工艺设计制作一套动态工艺图。所有动态工艺图都按一定规则进行命名。 | 125 | 项 |  | | 5 |  | 管道设施改建安装 | 污水站管道优化安装（具体详见安装清单：包含工序、辅材、人工等） | 125 | 项 | 详见:施工清单 |   2、施工清单：  单位工程费汇总表 | | | | | | | |
| 工程名称：建安工程费 | | |  | | 共2页  第1页 | | |
| 行号 | 序号 | 项目名称 | | 取费说明 | | 费率(%) | 金额（元） |
| 1 | 一 | 分部分项工程费 | | 分部分项合计 | |  |  |
| 2 | 1.1 | 设备安装 | |  | |  |  |
| 3 | 1.2 | 管线安装 | |  | |  |  |
| 4 | 1.3 | 摄像杆基础 | |  | |  |  |
| 5 | 1.4 | 流量计井 | |  | |  |  |
| 6 | 二 | 措施项目费 | | 措施项目合计 | |  |  |
| 7 | 1 | 施工单价措施项目费 | | 单价措施项目合计 | |  |  |
| 8 | 2 | 施工总价措施项目费 | | 总价措施项目合计 | |  |  |
| 9 | 2.1 | 其中：安全防护、文明施工费 | | 安全防护、文明施工基本费+安全防护、文明施工浮动费+建施安责险费 | |  |  |
| 10 | 2.2 | 其中：临时设施费 | | 临时设施费 | |  |  |
| 11 | 2.3 | 其中：雨季施工增加费 | | 雨季施工费 | |  |  |
| 12 | 2.4 | 其中：夜间施工增加费 | | 夜间施工费 | |  |  |
| 13 | 2.5 | 其中：视频监控费 | | 视频监控费 | |  |  |
| 14 | 三 | 其他项目费 | | 其他项目合计 | |  |  |
| 15 | 3 | 其中：暂列金额 | | 暂列金额 | |  |  |
| 16 | 4 | 其中：暂估价 | | 专业工程暂估价 | |  |  |
| 17 | 5 | 其中：计日工 | | 计日工 | |  |  |
| 18 | 6 | 其中：总承包服务费 | | 总承包服务费 | |  |  |
| 19 | 四 | 规费 | | 其中：垃圾处置费+其中：社保费 | |  |  |
| 20 | 8 | 其中：垃圾处置费 | |  | |  |  |
| 21 | 9 | 其中：社保费 | | (分部分项人工费+单价措施项目人工费+分部分项机上人工费+单价措施机上人工费)\*0.7 | | 23.5 |  |
| 22 | 五 | 价差 | | 人工价差+材料价差+机械价差 | |  |  |
| 23 | 10 | 人工价差 | | 人工价差 | |  |  |
| 24 | 11 | 材料价差 | | 材料价差 | |  |  |
| 25 | 12 | 机械价差 | | 机械价差 | |  |  |
| 26 | 六 | 不含税工程造价 | | 分部分项工程费+措施项目费+其他项目费+规费+价差 | |  |  |
| 27 | 七 | 税金 | | 不含税工程造价 | | 9 |  |

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| 单位工程费汇总表 | | | | | | | |
| 工程名称：建安工程费 | | |  | | 共2页  第2页 | | |
| 行号 | 序号 | 项目名称 | | 取费说明 | | 费率(%) | 金额（元） |
| 28 | 八 | 含税工程造价 | | 不含税工程造价+税金 | |  |  |
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| 单位工程预(结)算表 | | | | | | | | | | | | | | | |
| 工程名称：建安工程费 | | | | | | | | | | | | 第1页共3页 | | | |
| 序号 | 编号 | 名称 | 工程量 | | 综合单价分析 | | | | | | | | 主材含量 | 综合合价分析 | |
| 单位 | 数量 | 综合单价 | 人工单价 | 材料单价 | 机械单价 | 管理费单价 | 利润单价 | 主材单价 | | 综合合价 | 主材合价 |
|  |  | 设备安装 |  |  |  |  |  |  |  |  |  | |  |  |  |
| 1 | 借2-6-481 | 监控摄像设备室外球形摄像机 | 台 | 125 |  |  |  |  |  |  |  | |  |  |  |
| 2 | 借2-6-313 | 能耗监测系统其它传感器及变送器电磁流量计 | 套 | 125 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 分部小计 |  |  |  |  |  |  |  |  |  | |  |  |  |
|  |  | 管线安装 |  |  |  |  |  |  |  |  |  | |  |  |  |
| 3 | 4-9-17 | 沟槽挖填普通土 | m3 | 225 |  |  |  |  |  |  |  | |  |  |  |
| 4 | 4-12-142 | 刚性阻燃管敷设埋地敷设外径32mm | 100m | 37.5 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 电线管PC32 | m | 3975 |  |  |  |  |  |  |  | |  |  |  |
| 5 | 4-13-41 | 穿多芯软导线单芯导线截面2.5mm2以内 | 100m单线 | 12.5 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 导线RVVP-3\*2.5 | m | 1350 |  |  |  |  |  |  |  | |  |  |  |
| 6 | 5-2-23 | 双绞线缆管内穿放≤4对 | 100m | 25 |  |  |  |  |  |  |  | |  |  |  |
|  |  | STP网线 | m | 2625 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 分部小计 |  |  |  |  |  |  |  |  |  | |  |  |  |
|  |  | 摄像杆基础 |  |  |  |  |  |  |  |  |  | |  |  |  |
| 7 | 借1-1-215 | 挖掘机挖土(斗容量0.6m3)不装车一、二类土 | 1000  m3 | 0.072 |  |  |  |  |  |  |  | |  |  |  |
| 8 | 借1-1-313 | 填土夯实槽坑 | 100 | 0.72 |  |  |  |  |  |  |  | |  |  |  |

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| 单位工程预(结)算表 | | | | | | | | | | | | | | | |
| 工程名称：建安工程费 | | | | | | | | | | | | 第2页共3页 | | | |
| 序号 | 编号 | 名称 | 工程量 | | 综合单价分析 | | | | | | | | 主材含量 | 综合合价分析 | |
| 单位 | 数量 | 综合单价 | 人工单价 | 材料单价 | 机械单价 | 管理费单价 | 利润单价 | 主材单价 | | 综合合价 | 主材合价 |
|  |  |  | m3 |  |  |  |  |  |  |  |  | |  |  |  |
| 9 | 借1-1-218 | 挖掘机挖土(斗容量0.6m3)装车一、二类土 | 1000  m3 | 0.01875 |  |  |  |  |  |  |  | |  |  |  |
| 10 | 借1-1-251 | 自卸汽车运土(载重6t以内)运距1km | 1000  m3 | 0.01875 |  |  |  |  |  |  |  | |  |  |  |
| 11 | 借3-3-6 | 混凝土基础模板 | 10m2 | 15 |  |  |  |  |  |  |  | |  |  |  |
| 12 | 借8-2-78换 | 混凝土基础预拌换为【预拌混凝土C25】 | m3 | 18.75 |  |  |  |  |  |  |  | |  |  |  |
| 13 | 借8-2-79 | 预埋安装地脚螺丝 | t | 0.4479 |  |  |  |  |  |  |  | |  |  |  |
| 14 | 借9-1-34 | 箍筋直径12mm | t | 0.222 |  |  |  |  |  |  |  | |  |  |  |
| 15 | 借8-2-26 | 监控金属杆单杆式5m以内 | 根 | 125 |  |  |  |  |  |  |  | |  |  |  |
| 16 | 4-10-57 | 户外接地母线敷设 | 10m | 12.5 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 热镀锌扁钢（-40\*4) | m | 131.25 |  |  |  |  |  |  |  | |  |  |  |
| 17 | 4-10-50 | 接地极(板)制作与安装角钢接地极普通土 | 根 | 125 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 热镀锌角钢（L40\*4) | 根 | 125 |  |  |  |  |  |  |  | |  |  |  |
| 18 | 借8-1-114 | 接地系统测试单根金属杆路灯接地极电阻测试基 | 台 | 125 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 铜芯塑料绝缘电线BV-4mm2 | m | 268.75 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 分部小计 |  |  |  |  |  |  |  |  |  | |  |  |  |

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| 单位工程预(结)算表 | | | | | | | | | | | | | | | |
| 工程名称：建安工程费 | | | | | | | | | | | | 第3页共3页 | | | |
| 序号 | 编号 | 名称 | 工程量 | | 综合单价分析 | | | | | | | | 主材含量 | 综合合价分析 | |
| 单位 | 数量 | 综合单价 | 人工单价 | 材料单价 | 机械单价 | 管理费单价 | 利润单价 | 主材单价 | | 综合合价 | 主材合价 |
|  |  | 流量计井 |  |  |  |  |  |  |  |  |  | |  |  |  |
| 19 | 借1-1-215 | 挖掘机挖土(斗容量0.6m3)不装车一、二类土 | 1000  m3 | 0.06734 |  |  |  |  |  |  |  | |  |  |  |
| 20 | 借1-1-218 | 挖掘机挖土(斗容量0.6m3)装车一、二类土 | 1000  m3 | 0.06734 |  |  |  |  |  |  |  | |  |  |  |
| 21 | 借1-1-251 | 自卸汽车运土(载重6t以内)运距1km | 1000  m3 | 0.06734 |  |  |  |  |  |  |  | |  |  |  |
| 22 | 借3-3-2  换 | 现浇混凝土构件垫层混凝土换为【预拌混凝土C15】厚100mm | 10m3 | 1.6245 |  |  |  |  |  |  |  | |  |  |  |
| 23 | 借3-3-3 | 现浇混凝土构件垫层模板 | 10m2 | 5.7 |  |  |  |  |  |  |  | |  |  |  |
| 24 | 补子目1 | 百叶铝合金流量计井制作安装 | 座 | 125 |  |  |  |  |  |  |  | |  |  |  |
|  |  | 分部小计 |  |  |  |  |  |  |  |  |  | |  |  |  |
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|  |  | 合计 |  |  |  |  |  |  |  |  |  | |  |  |  |

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| 措施项目表 | | | | | | | | |
| 工程名称：建安工程费 | | |  | | | 第1页共1页 | | |
| 行号 | 序号 | 名称 | | 单位 | 计算基数 | | 费率 | 合价 |
| 1 | 1 | 总价措施项目 | |  |  | |  |  |
| 2 | 1.1 | 安全文明施工与环境保护基本费 | | 项 |  | |  |  |
| 3 | 1.2 | 安全文明施工与环境保护费(浮动部分) | | 项 |  | |  |  |
| 4 | 1.3 | 建施安责险 | | 项 |  | |  |  |
| 5 | 1.4 | 临时设施费 | | 项 |  | |  |  |
| 6 | 1.5 | 夜间施工增加费 | | 项 |  | |  |  |
| 7 | 1.6 | 雨季施工增加费 | | 项 |  | |  |  |
| 8 | 1.7 | 视频监控费 | | 项 |  | |  |  |
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| 单位工程人材机价差表 | | | | | | | | | |
| 工程名称：建安工程费 | | | | | | | 第1页共1页 | | |
| 序号 | 材料名称 | 规格 | 单位 | 材料量 | 预算价 | 市场价 | | 价差 | 价差合计 |
| 1 | 电 |  | kW·h | 1559.01032 |  |  | |  |  |
| 2 | 综合人工 |  | 工日 | 890.29093 |  |  | |  |  |
| 3 | 柴油 |  | kg | 256.6802 |  |  | |  |  |
| 4 | HPB300 | φ12 | kg | 227.55 |  |  | |  |  |
| 5 | 电 |  | kW·h | 80.5 |  |  | |  |  |
| 6 | 汽油 |  | kg | 33.55815 |  |  | |  |  |
| 7 | 人工 |  | 工日 | 21.80316 |  |  | |  |  |
| 8 | 预拌混凝土 | C25 | m3 | 18.9375 |  |  | |  |  |
| 9 | 预拌混凝土 | C15 | m3 | 16.40745 |  |  | |  |  |
| 10 | 汽油(综合) |  | kg | 7.5 |  |  | |  |  |
| 11 | 水 |  | m3 | 4.44453 |  |  | |  |  |
| 12 | 棉纱 |  | kg | 2.5 |  |  | |  |  |
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|  | 合计 |  |  |  |  |  | |  |  |

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| 主材表 | | | | | | |
| 工程名称:建安工程费 | | | | | 第1页共1页 | |
| 序号 | 名称规格 | 单位 | 材料量 | 市场价 | | 市场价合价 |
| 1 | 电线管PC32 | m | 3975 |  | |  |
| 2 | STP网线 | m | 2625 |  | |  |
| 3 | 导线RVVP-3\*2.5 | m | 1350 |  | |  |
| 4 | 铜芯塑料绝缘电线BV-4mm2 | m | 268.75 |  | |  |
| 5 | 热镀锌扁钢（-40\*4) | m | 131.25 |  | |  |
| 6 | 热镀锌角钢（L40\*4) | 根 | 125 |  | |  |
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