**1.Lifting Davit**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Seq.** | **BOQ Ref** | **Description** | **Location** | **Tag** | **QTY** | **Total Weight** | **Loading capacity 1.5 times heaviest piece** | **Length of arm** | **length of column** | **Tanks height (m)** |  |
| **IRBID location** |  |
| 1 | A.5.3.2.3.1 | Lifting Device | Stormwater Pumping Station | A-121-LiD-01 | 1 | 250 | 375 | 1.34 | 1.6 | 5.83 |  |
| 4 | A.5.2.3.2 | Lifting Device | Primary Scum Pumping Station | A-130-LiD-01 | 1 | 84 | 126 | 0.74 | 1.6 | 5.4 |  |
| 5 | A.5.6.1.2 | Lifting Device | FST Scum Pumping Stations | A-150-LiD-01 | 1 | 109 | 163.5 | 0.77 | 1.6 | 4.1 |  |
| 6 | A.5.10.5.2 | Lifting Device | Gravity Thickener Scum Pumping Station | A-202-LiD-01 | 1 | 78.3 | 117.45 | 0.95 | 1.6 | 3.6 |  |
| 7 | A.5.12.1.2 | Lifting Device | WAS Storage Tank (existing structure) | A-210-LiD-01/2 | 2 | 329 | 493.5 | 2.7 | 1.6 | 5.44 |  |
| 8 | A.5.15.2.1 | Lifting Device | Mechanical Thickener (GBT) Feed Tank | A-260-LiD-01 | 1 | 247 | 370.5 | 0.4 | 1.6 | 4.8 |  |
| 9 | A.5.25.3.1 | Lifting Device | Sludge Blending Tank | A-250-LiD-01 | 1 | 155 | 232.5 | 0.4 | 1.6 | 4.8 |  |
| 10 | A.5.13.3.1 | Lifting Device | Digested Sludge Storage Tank | A-220-LiD-01 | 1 | 170 | 255 | 0.4 | 1.6 | 4.8 |  |
| 11 | A.5.19.3.1 | Lifting Device | Return Liquor Pump Station | A-290-LiD-01 | 1 | 245 | 367.5 | 1.18 | 1.6 | 6.25 |  |
|  **WADI ARAB Location** |  |
| 1 | B.8.36.1.4 | Lifting Device | Septage Reception Station | B-115-LiD-01 | 1 | 158 | 237 | 0.7 | 1.6 | 4.26 |  |
| 2 | B.9.2.2.2 | Lifting Device | Stormwater Tanks and Stormwater Pumping Station | B-120-LiD-01 | 1 | 250 | 375 | 1.34 | 1.6 | 7.25 |  |
| 3 | B.9.4.3.2 | Lifting Device | Primary Scum Pumping Station | B-132-LiD-01 | 1 | 98 | 147 | 0.95 | 1.6 | 3 |  |
| 4 | B.9.5.4.1 | Lifting Device | Activated Sludge Tanks | B-140-LiD-01…06 | 6 | 78 | 117 | 1.07 | 1.6 | 6.95 |  |
| 5 | B.9.39.1.3 | Lifting Device | RAS Pumping Stations |  | 6 | 211 | 316.5 |  |  | NA |  |
| 6 | B.9.39.1.4 | Lifting Device | WAS Pumping Stations |  | 2 | 168 | 252 |  |  | NA |  |
| 7 | B.9.21.3 | Lifting Device | Gravity Thickener Scum Pumping Station | B-212-LiD-01 | 1 | 98 | 147 | 1.07 | 1.6 | 3.6 |  |
| 8 | B.9.12.2.1 | Lifting Device | WAS Storage Tank | B-215-LiD-01/02 | 2 | 200 | 300 | 1.5 | 1.6 | 5.6 |  |
| 9 | B.9.14.4 | Lifting Device | Sludge Blending Tank | B-240-LiD-01 | 1 | 170 | 255 | 0.4 | 1.6 | 5.8 |  |
| 10 | B.9.13.3 | Lifting Device | Digested Sludge Storage Tank | B-241-LiD-01/02 | 2 | 175 | 262.5 | 0.4 | 1.6 | 5.6 |  |



Lifting Davit： Length of arm will be manufactured according to your data above

**2. Mobile Gantry crane, manually operated**

1.span: 3meters

2.height of gantry crane unit: 2 meters

3.Lifting height of chain: 9 meters (as the gantry crane will be located in second floor to lift pumps

located in ground floor)

