

Clarification 3

(Date of issue of Clarification No 3: 25 August 2023)

Contract No. and Title: KUKL/WW/TP/R-02: Construction of Remaining works of Wastewater Treatment Plants at Sallaghari, Kodku and Dhobighat

First Date of IFB Publication: 16 July 2023

All prospective bidders are hereby informed that the corrections of Typo error in the Section 6 accordingly as follows:

Reference	Text in the Bidding Documents	Corrected Text as Clarification No. 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Section 6A: Employer's Requirement, Subclause 2.1.3	Dimension of Facilities	Dimension of Facilities (Sallaghari WWTP)																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	<table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Dimension (LxBxH) m</th> <th>Qty.</th> </tr> </thead> <tbody> <tr><td>W1</td><td>Inlet Chamber</td><td>3.1x5.60x5.1</td><td>1</td></tr> <tr><td>W2</td><td>Screen And Grit Chamber</td><td>21.0x5.06x12.77</td><td>2</td></tr> <tr><td>W3</td><td>Equalization Tank</td><td>22.00x20.55x7.65</td><td>2</td></tr> <tr><td>W4</td><td>Primary Sedimentation Tank</td><td>28.80x20.40x6.28</td><td>4</td></tr> <tr><td>W5</td><td>Aeration Tank</td><td>48.25x20.75x6.8</td><td>2</td></tr> <tr><td>W6</td><td>Secondary Sedimentation Tank</td><td>39.65x20.80x7.45</td><td>4</td></tr> <tr><td>W7</td><td>Disinfection Tank</td><td>12.10x9.32x3.38</td><td>2</td></tr> <tr><td>S1</td><td>Gravity Thickener</td><td>D=Ø7.2, H=4.90</td><td>2</td></tr> <tr><td>S2</td><td>Anaerobic Digester</td><td>D=Ø10.55, H=18.81</td><td>2</td></tr> <tr><td>S3</td><td>Sludge Distribution Tank</td><td>4.20x4.90x2.65</td><td>1</td></tr> <tr><td>S4</td><td>Waste Activated Sludge Tank</td><td>10.10x7.3x4.35</td><td>2</td></tr> <tr><td>S5</td><td>Mixed Sludge Tank</td><td>3x5.75x3.35</td><td>2</td></tr> <tr><td>S6</td><td>Digested Sludge Tank</td><td>6.75x3.25x3.25</td><td>2</td></tr> <tr><td>B1</td><td>Administrative Building</td><td>16.65x12.05x10</td><td>1</td></tr> <tr><td>B2</td><td>Pre-Treatment Building</td><td>5.45x5.60x12.37</td><td>1</td></tr> <tr><td>B3</td><td>Sludge Treatment Building</td><td>24.0x8.55x6.5</td><td>1</td></tr> <tr><td>B4</td><td>Blower And Electrical Building</td><td>28.40x14.85x7.45</td><td>1</td></tr> <tr><td>B5</td><td>Bio-Gas Generation Building</td><td>15.50x8.50x6.80</td><td>1</td></tr> <tr><td>B6</td><td>Storage House</td><td>15.00x5.60x3.0</td><td>1</td></tr> <tr><td>B7</td><td>Gate House</td><td>3.95x2.95x3.0</td><td>1</td></tr> <tr><td>B8</td><td>Recycled Water House</td><td>14.55x6.70x5.1</td><td>1</td></tr> <tr><td>B9</td><td>Electrical Room</td><td>9.60x4.30x5.00</td><td>1</td></tr> <tr><td>B10</td><td>Equalization Tank Pumping Room</td><td>4.05x5.60x4.15</td><td>1</td></tr> <tr><td>B11</td><td>Heat Exchanger Room</td><td>10.35x5.65x4.5</td><td>1</td></tr> <tr><td>P1</td><td>Gas Flare Platform</td><td>2.00x0.80</td><td>1</td></tr> <tr><td>P2</td><td>Gas Holder</td><td>D=Ø8.80</td><td>1</td></tr> <tr><td>P3</td><td>Scrubbing Tower</td><td>14.50x5.50</td><td>1</td></tr> <tr><td>P4</td><td>Diesel Tank Sump</td><td>7.0x3.20x1.80</td><td>2</td></tr> <tr><td>O1</td><td>Deodorization Facility</td><td>12.00x6.00</td><td>1</td></tr> </tbody> </table>	No.	Description	Dimension (LxBxH) m	Qty.	W1	Inlet Chamber	3.1x5.60x5.1	1	W2	Screen And Grit Chamber	21.0x5.06x12.77	2	W3	Equalization Tank	22.00x20.55x7.65	2	W4	Primary Sedimentation Tank	28.80x20.40x6.28	4	W5	Aeration Tank	48.25x20.75x6.8	2	W6	Secondary Sedimentation Tank	39.65x20.80x7.45	4	W7	Disinfection Tank	12.10x9.32x3.38	2	S1	Gravity Thickener	D=Ø7.2, H=4.90	2	S2	Anaerobic Digester	D=Ø10.55, H=18.81	2	S3	Sludge Distribution Tank	4.20x4.90x2.65	1	S4	Waste Activated Sludge Tank	10.10x7.3x4.35	2	S5	Mixed Sludge Tank	3x5.75x3.35	2	S6	Digested Sludge Tank	6.75x3.25x3.25	2	B1	Administrative Building	16.65x12.05x10	1	B2	Pre-Treatment Building	5.45x5.60x12.37	1	B3	Sludge Treatment Building	24.0x8.55x6.5	1	B4	Blower And Electrical Building	28.40x14.85x7.45	1	B5	Bio-Gas Generation Building	15.50x8.50x6.80	1	B6	Storage House	15.00x5.60x3.0	1	B7	Gate House	3.95x2.95x3.0	1	B8	Recycled Water House	14.55x6.70x5.1	1	B9	Electrical Room	9.60x4.30x5.00	1	B10	Equalization Tank Pumping Room	4.05x5.60x4.15	1	B11	Heat Exchanger Room	10.35x5.65x4.5	1	P1	Gas Flare Platform	2.00x0.80	1	P2	Gas Holder	D=Ø8.80	1	P3	Scrubbing Tower	14.50x5.50	1	P4	Diesel Tank Sump	7.0x3.20x1.80	2	O1	Deodorization Facility	12.00x6.00	1	<table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Dimension (LxBxH) m</th> <th>Qty.</th> </tr> </thead> <tbody> <tr><td>W1</td><td>Inlet Chamber</td><td>3.1x5.60x5.1</td><td>1</td></tr> <tr><td>W2</td><td>Screen And Grit Chamber</td><td>21.0x5.06x12.77</td><td>1</td></tr> <tr><td>W3</td><td>Equalization Tank</td><td>22.00x20.55x7.65</td><td>1</td></tr> <tr><td>W4</td><td>Primary Sedimentation Tank</td><td>28.80x20.40x6.28</td><td>1</td></tr> <tr><td>W5</td><td>Aeration Tank</td><td>48.25x20.75x6.8</td><td>1</td></tr> <tr><td>W6</td><td>Secondary Sedimentation Tank</td><td>39.65x20.80x7.45</td><td>1</td></tr> <tr><td>W7</td><td>Disinfection Tank</td><td>12.10x9.32x3.38</td><td>1</td></tr> <tr><td>S1</td><td>Gravity Thickener</td><td>D=Ø7.2, H=4.90</td><td>2</td></tr> <tr><td>S2</td><td>Anaerobic Digester</td><td>D=Ø10.55, H=18.81</td><td>2</td></tr> <tr><td>S3</td><td>Sludge Distribution Tank</td><td>4.20x4.90x2.65</td><td>1</td></tr> <tr><td>S4</td><td>Waste Activated Sludge Tank</td><td>10.10x7.3x4.35</td><td>1</td></tr> <tr><td>S5</td><td>Mixed Sludge Tank</td><td>3x5.75x3.35</td><td>1</td></tr> <tr><td>S6</td><td>Digested Sludge Tank</td><td>6.75x3.25x3.25</td><td>1</td></tr> <tr><td>B1</td><td>Administrative Building</td><td>16.65x12.05x10</td><td>1</td></tr> <tr><td>B2</td><td>Pre-Treatment Building</td><td>5.45x5.60x12.37</td><td>1</td></tr> <tr><td>B3</td><td>Sludge Treatment Building</td><td>24.0x8.55x6.5</td><td>1</td></tr> <tr><td>B4</td><td>Blower And Electrical Building</td><td>28.40x14.85x7.45</td><td>1</td></tr> <tr><td>B5</td><td>Bio-Gas Generation Building</td><td>15.50x8.50x6.80</td><td>1</td></tr> <tr><td>B6</td><td>Storage House</td><td>15.00x5.60x3.0</td><td>1</td></tr> <tr><td>B7</td><td>Gate House</td><td>3.95x2.95x3.0</td><td>1</td></tr> <tr><td>B8</td><td>Recycled Water House</td><td>14.55x6.70x5.1</td><td>1</td></tr> <tr><td>B9</td><td>Electrical Room</td><td>9.60x4.30x5.00</td><td>1</td></tr> <tr><td>B10</td><td>Equalization Tank Pumping Room</td><td>4.05x5.60x4.15</td><td>1</td></tr> <tr><td>B11</td><td>Heat Exchanger Room</td><td>10.35x5.65x4.5</td><td>1</td></tr> <tr><td>P1</td><td>Gas Flare Platform</td><td>2.00x0.80</td><td>1</td></tr> <tr><td>P2</td><td>Gas Holder</td><td>D=Ø8.80</td><td>1</td></tr> <tr><td>P3</td><td>Scrubbing Tower</td><td>14.50x5.50</td><td>1</td></tr> <tr><td>P4</td><td>Diesel Tank Sump</td><td>7.0x3.20x1.80</td><td>1</td></tr> <tr><td>O1</td><td>Deodorization Facility</td><td>12.00x6.00</td><td>1</td></tr> </tbody> </table>	No.	Description	Dimension (LxBxH) m	Qty.	W1	Inlet Chamber	3.1x5.60x5.1	1	W2	Screen And Grit Chamber	21.0x5.06x12.77	1	W3	Equalization Tank	22.00x20.55x7.65	1	W4	Primary Sedimentation Tank	28.80x20.40x6.28	1	W5	Aeration Tank	48.25x20.75x6.8	1	W6	Secondary Sedimentation Tank	39.65x20.80x7.45	1	W7	Disinfection Tank	12.10x9.32x3.38	1	S1	Gravity Thickener	D=Ø7.2, H=4.90	2	S2	Anaerobic Digester	D=Ø10.55, H=18.81	2	S3	Sludge Distribution Tank	4.20x4.90x2.65	1	S4	Waste Activated Sludge Tank	10.10x7.3x4.35	1	S5	Mixed Sludge Tank	3x5.75x3.35	1	S6	Digested Sludge Tank	6.75x3.25x3.25	1	B1	Administrative Building	16.65x12.05x10	1	B2	Pre-Treatment Building	5.45x5.60x12.37	1	B3	Sludge Treatment Building	24.0x8.55x6.5	1	B4	Blower And Electrical Building	28.40x14.85x7.45	1	B5	Bio-Gas Generation Building	15.50x8.50x6.80	1	B6	Storage House	15.00x5.60x3.0	1	B7	Gate House	3.95x2.95x3.0	1	B8	Recycled Water House	14.55x6.70x5.1	1	B9	Electrical Room	9.60x4.30x5.00	1	B10	Equalization Tank Pumping Room	4.05x5.60x4.15	1	B11	Heat Exchanger Room	10.35x5.65x4.5	1	P1	Gas Flare Platform	2.00x0.80	1	P2	Gas Holder	D=Ø8.80	1	P3	Scrubbing Tower	14.50x5.50	1	P4	Diesel Tank Sump	7.0x3.20x1.80	1	O1	Deodorization Facility	12.00x6.00	1																																																																																																																																																																																																																													
	No.	Description	Dimension (LxBxH) m	Qty.																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W1	Inlet Chamber	3.1x5.60x5.1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W2	Screen And Grit Chamber	21.0x5.06x12.77	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W3	Equalization Tank	22.00x20.55x7.65	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W4	Primary Sedimentation Tank	28.80x20.40x6.28	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W5	Aeration Tank	48.25x20.75x6.8	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W6	Secondary Sedimentation Tank	39.65x20.80x7.45	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	W7	Disinfection Tank	12.10x9.32x3.38	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S1	Gravity Thickener	D=Ø7.2, H=4.90	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S2	Anaerobic Digester	D=Ø10.55, H=18.81	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S3	Sludge Distribution Tank	4.20x4.90x2.65	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S4	Waste Activated Sludge Tank	10.10x7.3x4.35	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S5	Mixed Sludge Tank	3x5.75x3.35	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	S6	Digested Sludge Tank	6.75x3.25x3.25	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	B1	Administrative Building	16.65x12.05x10	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	B2	Pre-Treatment Building	5.45x5.60x12.37	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	B3	Sludge Treatment Building	24.0x8.55x6.5	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	B4	Blower And Electrical Building	28.40x14.85x7.45	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	B5	Bio-Gas Generation Building	15.50x8.50x6.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
B6	Storage House	15.00x5.60x3.0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B7	Gate House	3.95x2.95x3.0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B8	Recycled Water House	14.55x6.70x5.1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B9	Electrical Room	9.60x4.30x5.00	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B10	Equalization Tank Pumping Room	4.05x5.60x4.15	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B11	Heat Exchanger Room	10.35x5.65x4.5	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P1	Gas Flare Platform	2.00x0.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P2	Gas Holder	D=Ø8.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P3	Scrubbing Tower	14.50x5.50	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P4	Diesel Tank Sump	7.0x3.20x1.80	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
O1	Deodorization Facility	12.00x6.00	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
No.	Description	Dimension (LxBxH) m	Qty.																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W1	Inlet Chamber	3.1x5.60x5.1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W2	Screen And Grit Chamber	21.0x5.06x12.77	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W3	Equalization Tank	22.00x20.55x7.65	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W4	Primary Sedimentation Tank	28.80x20.40x6.28	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W5	Aeration Tank	48.25x20.75x6.8	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W6	Secondary Sedimentation Tank	39.65x20.80x7.45	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
W7	Disinfection Tank	12.10x9.32x3.38	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S1	Gravity Thickener	D=Ø7.2, H=4.90	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S2	Anaerobic Digester	D=Ø10.55, H=18.81	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S3	Sludge Distribution Tank	4.20x4.90x2.65	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S4	Waste Activated Sludge Tank	10.10x7.3x4.35	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S5	Mixed Sludge Tank	3x5.75x3.35	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
S6	Digested Sludge Tank	6.75x3.25x3.25	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B1	Administrative Building	16.65x12.05x10	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B2	Pre-Treatment Building	5.45x5.60x12.37	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B3	Sludge Treatment Building	24.0x8.55x6.5	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B4	Blower And Electrical Building	28.40x14.85x7.45	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B5	Bio-Gas Generation Building	15.50x8.50x6.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B6	Storage House	15.00x5.60x3.0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B7	Gate House	3.95x2.95x3.0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B8	Recycled Water House	14.55x6.70x5.1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B9	Electrical Room	9.60x4.30x5.00	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B10	Equalization Tank Pumping Room	4.05x5.60x4.15	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
B11	Heat Exchanger Room	10.35x5.65x4.5	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P1	Gas Flare Platform	2.00x0.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P2	Gas Holder	D=Ø8.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P3	Scrubbing Tower	14.50x5.50	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P4	Diesel Tank Sump	7.0x3.20x1.80	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
O1	Deodorization Facility	12.00x6.00	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Section 6: Appendix 6A-8: Design criteria and Dimension of Civil facility	Design criteria and Dimension of Civil facility for provided design drawing	Design criteria and Dimension of Civil facility for provided design drawing																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	<table border="1"> <thead> <tr> <th>WWTP</th> <th>Item</th> <th>GCT</th> <th>EQT</th> <th>PST</th> <th>AT</th> <th>SST</th> <th>Disinfection</th> <th>Sludge</th> <th>WWTP</th> <th>Item</th> </tr> </thead> <tbody> <tr> <td rowspan="13">Sallaghari WWTP</td> <td>Design Flow for civil(mld,m3/d)</td> <td>25.6</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>271.9</td> <td>95.6</td> </tr> <tr> <td>No of Tnak</td> <td>2</td> <td>2</td> <td>4</td> <td>2</td> <td>4</td> <td>4</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>B(Width) or Diameter(m)</td> <td>0.9</td> <td>9</td> <td>4.8</td> <td>9.6</td> <td>4.8</td> <td>1.3</td> <td>6.9</td> <td>6.9</td> <td>11</td> </tr> <tr> <td>L(Lenth)(m)</td> <td>11.5</td> <td>20</td> <td>28.4</td> <td>47.75</td> <td>33</td> <td>25.8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>H(Water depth)(m)</td> <td>0.47</td> <td>5</td> <td>3.56</td> <td>6</td> <td>3.88</td> <td>2.88</td> <td>3</td> <td>12.375</td> <td></td> </tr> <tr> <td>Vt(Volume)(m3)</td> <td>9.7</td> <td>1,800.0</td> <td>1,941.2</td> <td>5,500.8</td> <td>2,458.4</td> <td>193.2</td> <td>224.2</td> <td>2,638.7</td> <td></td> </tr> <tr> <td>A(Surface Area)(m2)</td> <td>20.7</td> <td></td> <td>545.28</td> <td></td> <td>633.6</td> <td></td> <td>74.3</td> <td></td> <td></td> </tr> <tr> <td>HRT(hr,esc,min)</td> <td>33</td> <td>3.0</td> <td>3.3</td> <td>9.3</td> <td>4.2</td> <td>19.6</td> <td>19.8</td> <td>28</td> <td></td> </tr> <tr> <td>SOR(m3/m2/day)</td> <td>1,235</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>22</td> <td></td> <td></td> </tr> <tr> <td>SLR(kg/m2/day)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>59</td> <td></td> <td>54.9</td> <td></td> </tr> <tr> <td>Remark(Measures)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Chemical injection</td> <td></td> </tr> <tr> <td rowspan="13">Kodku WWTP</td> <td>Design Flow for civil(mld,m3/d)</td> <td>31.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>334.8</td> <td>117.5</td> </tr> <tr> <td>No of Tnak</td> <td>2</td> <td>2</td> <td>4</td> <td>2</td> <td>4</td> <td>4</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>B(Width) or Diameter(m)</td> <td>1.45</td> <td>10.05</td> <td>4.8</td> <td>9.775</td> <td>4.8</td> <td>1.5</td> <td>7.6</td> <td>7.6</td> <td>11</td> </tr> <tr> <td>L(Lenth)(m)</td> <td>19</td> <td>26.45</td> <td>30.1</td> <td>62</td> <td>41</td> <td>27</td> <td></td> <td></td> <td></td> </tr> <tr> <td>H(Water depth)(m)</td> <td>0.51</td> <td>4.2</td> <td>3.6</td> <td>6</td> <td>3.67</td> <td>2.98</td> <td>3</td> <td>12.3</td> <td></td> </tr> <tr> <td>Vt(Volume)(m3)</td> <td>28</td> <td>2,233</td> <td>2,081</td> <td>7,273</td> <td>2,889</td> <td>241</td> <td>272</td> <td>2,630</td> <td></td> </tr> <tr> <td>A(Surface Area)(m2)</td> <td>55.1</td> <td></td> <td>577.92</td> <td></td> <td>787.2</td> <td></td> <td>90.1</td> <td></td> <td></td> </tr> <tr> <td>HRT(hr,esc,min)</td> <td>77</td> <td>3.1</td> <td>2.9</td> <td>10.0</td> <td>4.0</td> <td>19.9</td> <td>19.5</td> <td>22</td> <td></td> </tr> <tr> <td>SOR(m3/m2/day)</td> <td>572</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> <td>22</td> <td></td> <td></td> </tr> <tr> <td>SLR(m3/m2/day)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>54</td> <td></td> <td>55.7</td> <td></td> </tr> <tr> <td>Remark</td> <td></td> <td></td> <td></td> <td>Bottom EL</td> <td></td> <td></td> <td></td> <td>Chemical injection</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1286.68->1282.68</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	WWTP	Item	GCT	EQT	PST	AT	SST	Disinfection	Sludge	WWTP	Item	Sallaghari WWTP	Design Flow for civil(mld,m3/d)	25.6	14.2	14.2	14.2	14.2	14.2	14.2	271.9	95.6	No of Tnak	2	2	4	2	4	4	2	2	2	B(Width) or Diameter(m)	0.9	9	4.8	9.6	4.8	1.3	6.9	6.9	11	L(Lenth)(m)	11.5	20	28.4	47.75	33	25.8				H(Water depth)(m)	0.47	5	3.56	6	3.88	2.88	3	12.375		Vt(Volume)(m3)	9.7	1,800.0	1,941.2	5,500.8	2,458.4	193.2	224.2	2,638.7		A(Surface Area)(m2)	20.7		545.28		633.6		74.3			HRT(hr,esc,min)	33	3.0	3.3	9.3	4.2	19.6	19.8	28		SOR(m3/m2/day)	1,235						22			SLR(kg/m2/day)						59		54.9		Remark(Measures)								Chemical injection		Kodku WWTP	Design Flow for civil(mld,m3/d)	31.5	17.5	17.5	17.5	17.5	17.5	17.5	334.8	117.5	No of Tnak	2	2	4	2	4	4	2	2	2	B(Width) or Diameter(m)	1.45	10.05	4.8	9.775	4.8	1.5	7.6	7.6	11	L(Lenth)(m)	19	26.45	30.1	62	41	27				H(Water depth)(m)	0.51	4.2	3.6	6	3.67	2.98	3	12.3		Vt(Volume)(m3)	28	2,233	2,081	7,273	2,889	241	272	2,630		A(Surface Area)(m2)	55.1		577.92		787.2		90.1			HRT(hr,esc,min)	77	3.1	2.9	10.0	4.0	19.9	19.5	22		SOR(m3/m2/day)	572		30				22			SLR(m3/m2/day)						54		55.7		Remark				Bottom EL				Chemical injection						1286.68->1282.68						<table border="1"> <thead> <tr> <th>WWTP</th> <th>Item</th> <th>GCT</th> <th>EQT</th> <th>PST</th> <th>AT</th> <th>SST</th> <th>Disinfection</th> <th>Sludge Thickener</th> <th>Digester</th> </tr> </thead> <tbody> <tr> <td rowspan="13">Sallaghari WWTP</td> <td>Design Flow for civil (MLD, m3/d)</td> <td>25.6</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>14.2</td> <td>271.9</td> <td>95.6</td> </tr> <tr> <td>No of Tank</td> <td>2</td> <td>2</td> <td>4</td> <td>2</td> <td>4</td> <td>4</td> <td>2</td> <td>2</td> </tr> <tr> <td>B(Width) or Diameter(m)</td> <td>0.9</td> <td>9</td> <td>4.8</td> <td>9.6</td> <td>4.8</td> <td>1.3</td> <td>6.9</td> <td>11</td> </tr> <tr> <td>L(Lenth)(m)</td> <td>11.5</td> <td>20</td> <td>28.4</td> <td>47.75</td> <td>33</td> <td>25.8</td> <td></td> <td></td> </tr> <tr> <td>H (Water depth) (m)</td> <td>0.47</td> <td>5</td> <td>3.56</td> <td>6</td> <td>3.88</td> <td>2.88</td> <td>3</td> <td>12.375</td> </tr> <tr> <td>Vt (Volume)(m3)</td> <td>9.7</td> <td>1,800.0</td> <td>1,941.2</td> <td>5,500.8</td> <td>2,458.4</td> <td>193.2</td> <td>224.2</td> <td>2,638.7</td> </tr> <tr> <td>A (Surface Area) (m2)</td> <td>20.7</td> <td></td> <td>545.28</td> <td></td> <td>633.6</td> <td></td> <td>74.3</td> <td></td> </tr> <tr> <td>HRT (hr, sec,min)</td> <td>33</td> <td>3.0</td> <td>3.3</td> <td>9.3</td> <td>4.2</td> <td>19.6</td> <td>19.8</td> <td>28</td> </tr> <tr> <td>SOR(m3/m2/day)</td> <td>1,235</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>22</td> <td></td> </tr> <tr> <td>SLR (kg/m2/day)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>59</td> <td></td> <td>54.9</td> </tr> <tr> <td>Remark (Measures)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Chemical injection</td> </tr> <tr> <td rowspan="13">Kodku WWTP</td> <td>Design Flow for civil (MLD, m3/d)</td> <td>31.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>17.5</td> <td>334.8</td> <td>117.5</td> </tr> <tr> <td>No of Tank</td> <td>2</td> <td>2</td> <td>4</td> <td>2</td> <td>4</td> <td>4</td> <td>2</td> <td>2</td> </tr> <tr> <td>B(Width) or Diameter(m)</td> <td>1.45</td> <td>10.05</td> <td>4.8</td> <td>9.775</td> <td>4.8</td> <td>1.5</td> <td>7.6</td> <td>11</td> </tr> <tr> <td>L(Lenth)(m)</td> <td>19</td> <td>26.45</td> <td>30.1</td> <td>62</td> <td>41</td> <td>27</td> <td></td> <td></td> </tr> <tr> <td>H (Water depth) (m)</td> <td>0.51</td> <td>4.2</td> <td>3.6</td> <td>6</td> <td>3.67</td> <td>2.98</td> <td>3</td> <td>12.3</td> </tr> <tr> <td>Vt (Volume)(m3)</td> <td>28</td> <td>2,233</td> <td>2,081</td> <td>7,273</td> <td>2,889</td> <td>241</td> <td>272</td> <td>2,630</td> </tr> <tr> <td>A (Surface Area) (m2)</td> <td>55.1</td> <td></td> <td>577.92</td> <td></td> <td>787.2</td> <td></td> <td>90.1</td> <td></td> </tr> <tr> <td>HRT (hr,esc,min)</td> <td>77</td> <td>3.1</td> <td>2.9</td> <td>10.0</td> <td>4.0</td> <td>19.9</td> <td>19.5</td> <td>22</td> </tr> <tr> <td>SOR(m3/m2/day)</td> <td>572</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> <td>22</td> <td></td> </tr> <tr> <td>SLR(m3/m2/day)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>54</td> <td></td> <td>55.7</td> </tr> <tr> <td>Remark</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Chemical injection</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom EL</td> <td></td> <td></td> <td>1286.68->1282.68</td> </tr> </tbody> </table>	WWTP	Item	GCT	EQT	PST	AT	SST	Disinfection	Sludge Thickener	Digester	Sallaghari WWTP	Design Flow for civil (MLD, m3/d)	25.6	14.2	14.2	14.2	14.2	14.2	271.9	95.6	No of Tank	2	2	4	2	4	4	2	2	B(Width) or Diameter(m)	0.9	9	4.8	9.6	4.8	1.3	6.9	11	L(Lenth)(m)	11.5	20	28.4	47.75	33	25.8			H (Water depth) (m)	0.47	5	3.56	6	3.88	2.88	3	12.375	Vt (Volume)(m3)	9.7	1,800.0	1,941.2	5,500.8	2,458.4	193.2	224.2	2,638.7	A (Surface Area) (m2)	20.7		545.28		633.6		74.3		HRT (hr, sec,min)	33	3.0	3.3	9.3	4.2	19.6	19.8	28	SOR(m3/m2/day)	1,235						22		SLR (kg/m2/day)						59		54.9	Remark (Measures)								Chemical injection	Kodku WWTP	Design Flow for civil (MLD, m3/d)	31.5	17.5	17.5	17.5	17.5	17.5	334.8	117.5	No of Tank	2	2	4	2	4	4	2	2	B(Width) or Diameter(m)	1.45	10.05	4.8	9.775	4.8	1.5	7.6	11	L(Lenth)(m)	19	26.45	30.1	62	41	27			H (Water depth) (m)	0.51	4.2	3.6	6	3.67	2.98	3	12.3	Vt (Volume)(m3)	28	2,233	2,081	7,273	2,889	241	272	2,630	A (Surface Area) (m2)	55.1		577.92		787.2		90.1		HRT (hr,esc,min)	77	3.1	2.9	10.0	4.0	19.9	19.5	22	SOR(m3/m2/day)	572		30				22		SLR(m3/m2/day)						54		55.7	Remark								Chemical injection						Bottom EL		
WWTP	Item	GCT	EQT	PST	AT	SST	Disinfection	Sludge	WWTP	Item																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sallaghari WWTP	Design Flow for civil(mld,m3/d)	25.6	14.2	14.2	14.2	14.2	14.2	14.2	271.9	95.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	No of Tnak	2	2	4	2	4	4	2	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	B(Width) or Diameter(m)	0.9	9	4.8	9.6	4.8	1.3	6.9	6.9	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	L(Lenth)(m)	11.5	20	28.4	47.75	33	25.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	H(Water depth)(m)	0.47	5	3.56	6	3.88	2.88	3	12.375																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Vt(Volume)(m3)	9.7	1,800.0	1,941.2	5,500.8	2,458.4	193.2	224.2	2,638.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	A(Surface Area)(m2)	20.7		545.28		633.6		74.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	HRT(hr,esc,min)	33	3.0	3.3	9.3	4.2	19.6	19.8	28																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	SOR(m3/m2/day)	1,235						22																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	SLR(kg/m2/day)						59		54.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Remark(Measures)								Chemical injection																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Kodku WWTP	Design Flow for civil(mld,m3/d)	31.5	17.5	17.5	17.5	17.5	17.5	17.5	334.8	117.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		No of Tnak	2	2	4	2	4	4	2	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
B(Width) or Diameter(m)		1.45	10.05	4.8	9.775	4.8	1.5	7.6	7.6	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
L(Lenth)(m)		19	26.45	30.1	62	41	27																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
H(Water depth)(m)		0.51	4.2	3.6	6	3.67	2.98	3	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Vt(Volume)(m3)		28	2,233	2,081	7,273	2,889	241	272	2,630																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A(Surface Area)(m2)		55.1		577.92		787.2		90.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
HRT(hr,esc,min)		77	3.1	2.9	10.0	4.0	19.9	19.5	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SOR(m3/m2/day)		572		30				22																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SLR(m3/m2/day)							54		55.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Remark					Bottom EL				Chemical injection																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					1286.68->1282.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
WWTP		Item	GCT	EQT	PST	AT	SST	Disinfection	Sludge Thickener	Digester																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sallaghari WWTP	Design Flow for civil (MLD, m3/d)	25.6	14.2	14.2	14.2	14.2	14.2	271.9	95.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	No of Tank	2	2	4	2	4	4	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	B(Width) or Diameter(m)	0.9	9	4.8	9.6	4.8	1.3	6.9	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	L(Lenth)(m)	11.5	20	28.4	47.75	33	25.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	H (Water depth) (m)	0.47	5	3.56	6	3.88	2.88	3	12.375																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Vt (Volume)(m3)	9.7	1,800.0	1,941.2	5,500.8	2,458.4	193.2	224.2	2,638.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	A (Surface Area) (m2)	20.7		545.28		633.6		74.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	HRT (hr, sec,min)	33	3.0	3.3	9.3	4.2	19.6	19.8	28																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	SOR(m3/m2/day)	1,235						22																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	SLR (kg/m2/day)						59		54.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Remark (Measures)								Chemical injection																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	Kodku WWTP	Design Flow for civil (MLD, m3/d)	31.5	17.5	17.5	17.5	17.5	17.5	334.8	117.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		No of Tank	2	2	4	2	4	4	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
B(Width) or Diameter(m)		1.45	10.05	4.8	9.775	4.8	1.5	7.6	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
L(Lenth)(m)		19	26.45	30.1	62	41	27																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
H (Water depth) (m)		0.51	4.2	3.6	6	3.67	2.98	3	12.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Vt (Volume)(m3)		28	2,233	2,081	7,273	2,889	241	272	2,630																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
A (Surface Area) (m2)		55.1		577.92		787.2		90.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
HRT (hr,esc,min)		77	3.1	2.9	10.0	4.0	19.9	19.5	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SOR(m3/m2/day)		572		30				22																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SLR(m3/m2/day)							54		55.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Remark									Chemical injection																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
						Bottom EL			1286.68->1282.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																						