

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



Ministry of Environment

Male', Republic of Maldives.

ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި  
ދަނީ ބަޔާންކުރެއްވިފައެވެ.

# ދިވެހިސަރުކާރުގެ ގެޒެޓް ގައި ބަޔާންކުރި ގޮތުގައި ދަނީ ބަޔާންކުރެއްވިފައެވެ

މިއަންގަވާއިދުގެ ދަށުން ބަޔާންކުރެއްވިފައިވާ ގޮތުގައި ބަޔާންކުރެއްވިފައިވާ  
ގޮތުގައި ބަޔާންކުރެއްވިފައިވާ ގޮތުގައި ބަޔާންކުރެއްވިފައިވާ  
(IUL)438-WMPC/438/2019/170 ގޮތުގައި ބަޔާންކުރެއްވިފައިވާ

11/7/2019

މިއަންގަވާއިދުގެ ދަށުން ބަޔާންކުރެއްވިފައިވާ ގޮތުގައި ބަޔާންކުރެއްވިފައިވާ











July 11, 2019

|                      |                                 |    |
|----------------------|---------------------------------|----|
| 17.3                 | <p>١٧.٣ - ١٧.٣ - ١٧.٣</p>       |    |
| 17.4                 | <p>١٧.٤ - ١٧.٤ - ١٧.٤</p>       |    |
| 18.1                 | <p>١٨.١ - ١٨.١ - ١٨.١</p>       | 18 |
| 18.2                 | <p>١٨.٢ - ١٨.٢ - ١٨.٢</p>       |    |
| 18.3                 | <p>١٨.٣ - ١٨.٣ - ١٨.٣</p>       |    |
| 19.1                 | <p>١٩.١ - ١٩.١ - ١٩.١</p>       | 19 |
| <p>(٥) ٢٠١٩ ٧ 11</p> |                                 |    |
| 20.1                 | <p>٢٠.١ - ٢٠.١ - ٢٠.١</p>       | 20 |
| 20.2                 | <p>٢٠.٢ - ٢٠.٢ - ٢٠.٢</p>       |    |
| 20.3                 | <p>٢٠.٣ - ٢٠.٣ - ٢٠.٣</p>       |    |
| 21.1                 | <p>٢١.١ - ٢١.١ - ٢١.١</p>       | 21 |
| 21.2                 | <p>٢١.٢ - ٢١.٢ - ٢١.٢</p>       |    |
| 22.1                 | <p>٢٢.١ - ٢٢.١ - ٢٢.١</p>       | 22 |
| 22.1.1               | <p>٢٢.١.١ - ٢٢.١.١ - ٢٢.١.١</p> |    |
| 22.1.2               | <p>٢٢.١.٢ - ٢٢.١.٢ - ٢٢.١.٢</p> |    |
| 22.1.3               | <p>٢٢.١.٣ - ٢٢.١.٣ - ٢٢.١.٣</p> |    |





July 11, 2019

|      |   |                                   |
|------|---|-----------------------------------|
| 29.3 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር (ሰነድ ቁጥር) 45</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>      |                                   |
| 29.4 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>                   |                                   |
| 29.5 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 15% (የግብርና ሚኒስቴር)</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> |                                   |
| 30.1 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 250,000/-</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>         | <p>30. የግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> |
| 30.2 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>                   |                                   |
| 30.3 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>                   |                                   |
| 31.1 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 5 (የግብርና ሚኒስቴር)</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>   | <p>31. የግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> |
| 32.1 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 17-09</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>             | <p>32. የግብርና ሚኒስቴር ግብርና ሚኒስቴር</p> |
| 32.2 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 17-09</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>             |                                   |
| 32.3 | <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር 17-09</p> <p>የግብርና ሚኒስቴር ግብርና ሚኒስቴር ግብርና ሚኒስቴር</p>             |                                   |



July 11, 2019

3 - ٣

١ - ١

١ - ١

| #  | ١ - ١   |
|----|---------|
| 1  | ١ - ١   |
| 2  | ٢ - ٢   |
| 3  | ٣ - ٣   |
| 4  | ٤ - ٤   |
| 5  | ٥ - ٥   |
| 6  | ٦ - ٦   |
| 7  | ٧ - ٧   |
| 8  | ٨ - ٨   |
| 9  | ٩ - ٩   |
| 10 | ١٠ - ١٠ |
| 11 | ١١ - ١١ |
| 13 | ١٣ - ١٣ |
| 14 | ١٤ - ١٤ |
| 15 | ١٥ - ١٥ |
| 16 | ١٦ - ١٦ |

July 11, 2019

٢ - ٢٠١٩  
٢٠١٩ ٧ ١١

|              |           |
|--------------|-----------|
| ١. ٢٠١٩ ٧ ١١ |           |
| ١.١          | ٢٠١٩ ٧ ١١ |
| ١.٢          | ٢٠١٩ ٧ ١١ |
| ٢. ٢٠١٩ ٧ ١١ |           |
| ٢.١          | ٢٠١٩ ٧ ١١ |
| ٢.٢          | ٢٠١٩ ٧ ١١ |
| ٣. ٢٠١٩ ٧ ١١ |           |
| ٣.١          | ٢٠١٩ ٧ ١١ |
|              | ٢٠١٩ ٧ ١١ |
|              | ٢٠١٩ ٧ ١١ |
| ٣.٢          | ٢٠١٩ ٧ ١١ |
| ٣.٣          | ٢٠١٩ ٧ ١١ |
| ٤. ٢٠١٩ ٧ ١١ |           |
| ٤.١          | ٢٠١٩ ٧ ١١ |
| ٤.٢          | ٢٠١٩ ٧ ١١ |
| ٤.٣          | ٢٠١٩ ٧ ١١ |
| ٥. ٢٠١٩ ٧ ١١ |           |
|              | ٢٠١٩ ٧ ١١ |
|              | ٢٠١٩ ٧ ١١ |
|              | ٢٠١٩ ٧ ١١ |
|              | ٢٠١٩ ٧ ١١ |



July 11, 2019

٤ - قرضہ

ذریعہ سرکاری ادارہ کی طرف سے

....Name or Letterhead of The Business Entity: (Sole Proprietorship / Partnership / Corporative Society / etc).....

**Income Statement  
For the Year Ended December 31, 20..**

|   | MVR | MVR |
|---|-----|-----|
| <b>Revenues:</b>  |     |     |
| Category 1  | -   |     |
| Category 2  | -   |     |
| <i>*add more categories if required</i>                           | -   |     |
| <b>Total Revenues</b>   |     | -   |
| <b>Expenses:</b>  |     |     |
| Category 1  | -   |     |
| Category 2  | -   |     |
| <i>*add more categories if required</i>                           | -   |     |
| <b>Total Expenses</b>   |     | -   |
| <b>NET INCOME (Total Revenues subtracted from Total Expenses)</b> |     | -   |

Name of the Authorized Signatory:

Authorized Signature:

*Note: This Income Statement must be completed and submitted by Bidders except the Companies registered under the Companies Act (10/96). Companies are required to submit the Financial Statements as indicated in part 16.2.2 of this document.*







July 11, 2019

பகுதி 4 - கட்டுமானம்

பகுதி 4.1: கட்டுமானம்

CONSTRUCTION OF WASTE MANAGEMENT CENTRE - GA. VILLINGILI

Bill of Quantities

| No       | Item   | Unit | Quantity | Rate | Amount |
|----------|--|------|----------|------|--------|
| <b>1</b> | <b>Preliminaries</b>   |      |          |      |        |
| 1.1      | Mobilization to site   | LS   | 1        |      |        |
| 1.2      | Site management cost including set up of temporary services for contractor's services as maybe necessary   | LS   | 1        |      |        |
|          |  |      |          |      |        |
| <b>2</b> | <b>Site Clearance</b>  |      |          |      |        |
| 2.1      | All site clean up work including removal of vegetation and relocation of existing waste to a temporary location identified by island council   | LS   | 1        |      |        |
|          |  |      |          |      |        |
| <b>3</b> | <b>Earth works</b>   |      |          |      |        |
|          | <i>Allow for all excavation work for foundations as follows</i>  |      |          |      |        |
| 3.1      | Collection bay isolated footings   | m3   | 0.00     |      |        |
| 3.2      | Collection Bay wall footing  | m3   | 0.00     |      |        |
| 3.4      | Flood light pole   | m3   | 0.13     |      |        |
| 3.5      | Ground levelling works for ground slab works   | m2   | 725.00   |      |        |
| 3.6      | Leachate collection tank   | m3   | 6.00     |      |        |
| 3.7      | Setting up a ground water well in the location shown   | LS   | 0        |      |        |
|          |  |      |          |      |        |
| <b>4</b> | <b>Concrete works</b>  |      |          |      |        |
|          | <i>Collection Bay Area</i>   |      |          |      |        |
| 4.1      | Provide 100mm concrete floor screed for collection bay area according to the slope shown in drawing with a drain at the Sorting Area. Reinforcement for the slab shall be R6@150 BW single layer | m3   | 46.98    |      |        |
| 4.2      | Wall Footing of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing  | m3   | 0.00     |      |        |
| 4.3      | Lintel for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.  | m3   | 1.34     |      |        |
| 4.4      | Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.   | m3   | 0.00     |      |        |
| 4.5      | Isolated Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing.  | m3   | 0        |      |        |
|          | <i>Compost Slab</i>  |      |          |      |        |
| 4.6      | Compost slab panels cast according to the slopes shown on drawing. Reinforcement shall be as shown on drawings.  | m3   | 22.50    |      |        |





July 11, 2019

|           |  |     |      |  |  |
|-----------|--|-----|------|--|--|
| 10.5      | Provide and mount a exhaust fan inside the Hazardous Waste Storage Room. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories  | LS  | 1    |  |  |
| 10.6      | Provide 25 sqmm 4 core power supply cable from nearest existing distribution box to waste yard distribution board  | m   | 150  |  |  |
|           | <i>Other</i>   |     |      |  |  |
| 10.7      | Provide 13 A power socket for well water pump inside the Equipment Room, provide the switch for the pump near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker.   | Nos | 1    |  |  |
| 10.8      | Provide 200 W flood light for illuminating the waste yard. Rate shall include connecting each light to a switch near circuit breaker inside the equipment room and providing power to the switch   | Nos | 2    |  |  |
| 10.9      | Provide well water pump. Rate shall include its fixing inside the Equipment Room   | Nos | 1    |  |  |
|           |  |     |      |  |  |
| <b>11</b> | <b>Plumbing works</b>  |     |      |  |  |
| 11.1      | Provide connection from pump to ground water well. Rate shall include all necessary pipes, bends, fittings and footvalve and others as maybe required.   | LS  | 1    |  |  |
| 11.2      | Provide outlet pipes as shown on drawing. Rate shall include connection to pump, bends, fittings and others as maybe necessary.  | LS  | 1    |  |  |
| 11.3      | Provide PVC taps at ends of outlet pipes.  | Nos | 3    |  |  |
| 11.4      | Supply 25mm diameter flexible hose   | m   | 25.0 |  |  |
|           |  |     |      |  |  |
| <b>12</b> | <b>Doors and windows</b>   |     |      |  |  |
|           | <i>Metal Doors</i>   |     |      |  |  |
| 12.1      | Provide lockable metal sliding gates for entrance to hazardous waste storage room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well. | Nos | 1    |  |  |
| 12.2      | Provide lockable metal folding gates for entrance to Equipment room. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the door and proper fixing of the door. Rate shall include fabrication and fixing of guide rails and wheels as well.               | Nos | 2    |  |  |

July 11, 2019

|           |  |     |        |  |  |
|-----------|--|-----|--------|--|--|
| 12.3      | Provide lockable metal gates for entrance to waste yard as specified in the drawing. Rate shall include all cuts, welds, applying protective coating to welded joints, painting the frame and properly fixing the door to the fence. | Nos | 2      |  |  |
|           | <i>Timber Doors</i>  |     |        |  |  |
| 12.4      | Provide a lockable timber door of dimensions 1000mm x 1000mm with double door frames and fixed timber louvers for the ground water pump room hut. Rates shall include all materials, hinges and fixings.                             | Nos | 1      |  |  |
|           |  |     |        |  |  |
| <b>13</b> | <b>Other Works</b>   |     |        |  |  |
|           | <i>Collection Bay Area</i>   |     |        |  |  |
| 13.1      | Provide a 5" vinyl roof gutter with 2" x 3" downspout. Rates shall include all materials and fastenings.   | LS  | 1      |  |  |
|           | <i>Compost Slab</i>  |     |        |  |  |
| 13.2      | Provide HDPE membrane below compost slab and collection bay floor slab   | m2  | 725.00 |  |  |
| 13.3      | Provide expansion joint in slab and fill the joint with polyethylene joint filler form and silicone as shown on drawing  | m   | 40.00  |  |  |
| 13.4      | Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles.   | LS  | 2      |  |  |
| 13.5      | Connection of compost slab drain to primary tank of the leachate tank including ball valve   | LS  | 1      |  |  |
| 13.6      | Covering the 1.5m gap between the roof and masonry walls around the walls indicated in the drawing using Lysaght Sheets  | m   | 91.00  |  |  |
|           |  |     |        |  |  |
| <b>14</b> | <b>Demobilisation Works</b>  |     |        |  |  |
| 14.1      | Setup sign boards on site as specified   | LS  | 1      |  |  |
| 14.2      | Clean up site upon completion of works   | LS  | 1      |  |  |
| 14.3      | Demobilization   | LS  | 1      |  |  |

**TOTAL**

July 11, 2019

பக்கம் 4.2 : கட்டுமானப் பணிகளின் சுருக்கிய பட்டியல்

**CONSTRUCTION OF WASTEMANAGEMENT CENTRE - GA. VILLIGILI**  
**Bill of Quantities**  
**SUMMARY SHEET**

| Bill No | Item                              | Amount |
|---------|-----------------------------------|--------|
| 1       | Preliminaries                     |        |
| 2       | Site clearance/Demolition/Removal |        |
| 3       | Earth works                       |        |
| 4       | Concrete works                    |        |
| 5       | Structural steel works            |        |
| 6       | Masonry works                     |        |
| 7       | Plastering works                  |        |
| 8       | Painting works                    |        |
| 9       | Roofing works                     |        |
| 10      | Electrical works                  |        |
| 11      | Plumbing works                    |        |
| 12      | Doors and windows                 |        |
| 13      | Other Works                       |        |
| 14      | Demobilisation                    |        |
|         | <b>Sub Total</b>                  |        |
|         | <b>GST 6%</b>                     |        |
|         | <b>GRAND TOTAL</b>                |        |

July 11, 2019

سید سعید احمد: 4.3: ڈیپارٹمنٹ آف ایگریکلچرل سائنسز

### Work Schedule

| Works                             | Duration | Week |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   | Start Date | End Date |  |
|-----------------------------------|----------|------|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|------------|----------|--|
|                                   |          | 18   | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |            |          |  |
| Preliminaries                     |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| clearance/Demolition/Removal Site |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Earth                       |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Concrete                    |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| steel works Structural            |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Masonary                    |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Plastering                  |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Painting                    |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Roofing                     |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Electrical                  |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| works Plumbing                    |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| and windows Doors                 |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| Works Other                       |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |
| Demobilisation                    |          |      |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |            |          |  |



سٺو سڪو 4.5: سڪو جي وڌيڪ وڌيڪ



July 11, 2019

## 4.6: شروط ومواصفات العمل

### Working Site

The site should be kept clean during the construction work period and should be thoroughly cleaned once the works are completed. Works should be carried out on site in a safe manner to all the workers on site and the people living in the vicinity of site. Disturbance to the neighborhood should be kept to a minimum. Electricity and water supply to the site, during construction period, should be provided by the contractor

### Concrete

Cement conforming to BS12 standards should be used for all concrete, masonry and plastering works. The cement intended for use should be fresh and should not have any traces of hardened cement in the bag.

1. All concrete works should be done using one brand of cement
2. Sand and aggregate used for concrete works should be well graded.
3. Concrete should be mixed in the ratio 1:2:3 which are 1 part cement, 2 parts sand and 3 parts aggregate.
4. All foundations should be cast on a lean concrete layer. The lean concrete should be placed on well compacted ground.
5. Concrete should be mixed using a concrete mixer. Concrete should not be mixed by hand. When pouring concrete into the formwork, the mix should be compacted using a mechanical vibrator.
6. Aggregate used for concrete works should not be larger than 20mm.
7. Sand and aggregate used for concrete works should be clear from dust, mud and other debris.
8. All reinforcement bars used for the concrete works should be free from rust and grease that could weaken the bonding between the reinforcement bar and the concrete. Care should be taken to use continuous bars rather than short segments joined by laps.

### Masonry Works

1. All masonry work should be done using Cement confirming to BS12 standards.
2. Masonry blocks should be made from imported sand or local white sand sourced from a permitted sand borrow area. The sand should be free from organic matter and other debris.
3. Masonry blocks should be made from mortar mixed at 1:5 ratio with 1 part cement to 5 part sand.
4. Average size of sand particles should not exceed 5mm.

### Plastering Works

1. All plastering work should be done using Cement confirming to BS12 standards.
2. Plaster mix should be made from imported or local sand white sand sourced from a permitted borrow area. The sand should be free from organic matter and other debris.
3. Plaster mix should be made by mixing Cement and Sand at a ratio of 1:3 with 1 part Cement to 3 part Sand.

July 11, 2019

4. Average size of sand particles should not exceed 5mm.

**Structural Steel work**

1. All steel pipes obtained for the work should be new pipes and free from rust.
2. Thickness of pipes should not be less than 2.5mm

**Electrical works**

1. All materials used for electrical wiring should comply with MEA standards.

**Roofing works**

1. All materials used for roofing work should be newly purchased for the project.
2. All screws or bolts used for roof fixing should be G-I or Zinc finish screws.