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**މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނަރޖީ Ministry of Environment and Energy**މާލެ، ދިވެހިރާއްޖެ. Male’, Republic of Maldives.

އިއުލާން ނަންބަރ: (IUL)438-WMPC/1/2017/66

މަޝްރޫޢުގެ ނަން: ދ.ރިނބުދޫގައި ކުނި މެނޭޖްކުރާ މަރުކަޒު ޤާއިމުކުރުމުގެ މަސައްކަތް

ބީލަން ފޮތް

ބީލަން ދޫކުރާ ފަރާތް: މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނާރޖީ

ބީލަން ފޮތުގައި ހިމެނޭ ބައިތައް

[ބީލަމާއިއެކު ހުށަހަޅާ ސިޓީ 3](#_Toc477690585)

[ބީލަމާ ބެހޭ އިރުޝާދު 4](#_Toc477690586)

[1. ތަޢާރަފް 4](#_Toc477690587)

[2. ބީލަންތައް އަގު ވަޒަންކުރުމުގައި ބަލާނެ މިންގަނޑުތައް 4](#_Toc477690588)

[3. ހުށައަޅާ ބީލަމާއިއެކު ހުށައަޅަންޖެހޭ ތަކެތި 5](#_Toc477690589)

[4. ބީލަމާއި ގުޅޭ ޕްރީބިޑް ބައްދަލުވުން އަދި އަންދާސީ ހިސާބު ހުށަހެޅުން 5](#_Toc477690590)

[5. ބީލަމާއި ގުޅޭ އިތުރު މަޢުލޫމާތު 5](#_Toc477690591)

[ފޯމް 1: ކޮންޓްރެކްޓަރުގެ ޕްރޮޕޯސަލް 7](#_Toc477690592)

[ފޯމް 2: މަސައްކަތުގެ ތާވަލް 8](#_Toc477690593)

[ފޯމް 3: މަސައްކަތުގެ އަގު 9](#_Toc477690594)

[ފޯމް 4: މަސައްކަތް ކުރުމަށް ހުށަހަޅާ އަގުގެ ޙުލާސާ 16](#_Toc477690595)

[ޖަދުވަލް 1 : ކުންފުނި ރަޖިސްޓްރޭޝަން އަދި ޖީ.އެސް.ޓީ ރެޖިސްޓްރޭޝަން ސެޓްފިކެޓް / ދިވެހި ރައްޔިތެއްކަންއަންގައިދޭ ކާރޑްގެ ކޮޕީ 17](#_Toc477690596)

[ޖަދުވަލް 2 : މަސައްކަތާއި ގުޅޭ ކުރެހުންތައް 18](#_Toc477690597)

[ޖަދުވަލް 3 : މަސައްކަތުގައި ބަލަންޖެހޭ ޓެކްނިކަލް ސްޕެސިފިކޭޝްންސް 19](#_Toc477690598)

[ޖަދުވަލް 4 : މަސައްކަތް ކުރަންޖެހޭ ސަރަހައްދު އަންގައިދޭ ޗާޓެއް 21](#_Toc477690599)

ބީލަމާއިއެކު ހުށަހަޅާ ސިޓީ

( ހުށަހަޅާފަރާތުގެ އެޑްރެސް )

މިނިސްޓަރ އޮފް އެންވަރަޔަރަންމަންޓް އެންޑް އެނަރޖީ އޮނަރަބަލް އަލްފާޟިލް ޡޯރިޤު އިބުރާހީމަށް

ވެދުން ސަލާމަށްފަހު ދަންނަވަމެވެ.

ދ.ރިނބުދޫގައި ޤާއިމްކޮށްފައިވާ ކުނި މެނޭޖްކުރާ މަރުކަޒު ޤާއިމް ކުރުމުގެ މަސައްކަތް އަމިއްލަ ތަކެތީގައި ކޮށްދޭނެ ފަރާތެއް ހޯދުމަށްޓަކައި ........ ވަނަ ދުވަހު ކޮށްފައިވާ ............. ނަންބަރު އިއުލާނާއި ޙަވާލާދީ ދަންނަވަމެވެ.

މިބީލަމުގައި ބަޔާންކުރެވިފައިވާ މަސައްކަތް ކުރުމަށް .................. ރުފިޔާއަށް އަޅުގަނޑު ހުށަހަޅަމެވެ. މި މަސައްކަތްކުރުމަށް އަޅުގަނޑު ހުށަހަޅާ މުއްދަތަކީ ކޮންޓްރެކްޓްގައި ސޮއިކުރެވޭ ތާރީޚުން ފެށިގެން .................. ދުވަހުހެވެ.

މިބީލަމުގައި ހިމެނިފައިވާ ހުރިހާ މަޢުލޫމާތުތަކާއި މިބީލަމާއި އެކުގައި ހުށަހަޅާފައިވާ ލިޔެކިޔުންތަކުގައިވަނީ ޞައްހަ ތެދު މަޢުލޫމާތުކަން އަޅުގަނޑު ޔަޤީންކޮށްދެމެވެ. އަދި ހުށަހަޅާފައިވާ ބީލަމުގައި އެއްވެސް އޮޅުވާލުމެއް ނުވަތަ ދޮގު މަޢުލޫމާތު ތަކެއްވާނަމަ ބީލަން ބާޠިލް ކުރުމުގެ އިޚްތިޔާރު ތިޔަފަރާތަށް ލިބިގެންވާކަމަށް އަޅުގަނޑު ޤަބޫލުކުރަމެވެ.

އިޙްތިރާމް ޤަބޫލް ކުރެއްވުން އެދެމެވެ.

........................ 2017

(ސޮއި)

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( ނަމާއި އައި.ޑީ ކާޑު ނަންބަރު )

މިނިސްޓްރީ އޮފް އެންވަރަޔަރަންމަންޓް އެންޑް އެނަރޖީ

މާލެ،ދިވެހިރާއްޖެ

ބީލަމާ ބެހޭ އިރުޝާދު

1. ތަޢާރަފް

މި މަޝްރޫއުއަކީ ސާފު ރާއްޖެ އިނީޝިއޭޓިވްގެ ދަށުން، ރާއްޖޭގެ ރަށްތަކަށް ކުރިމަތިވެފައިވާ ކުނިމެނޭޖް ކުރުމުގެ މައްސަލައަށް ޙައްލު ހޯދައިދިނުމަށް އެހީތެރިވުމަށް މި މިނިސްޓްރީން ކުރައްވަމުން ގެންދަވާ މަސައްކަތުގެ ތެރެއިން، ދ.ރިނބުދޫ ކުނި މެނޭޖުކުރާ މަރުކަޒު ޤާއިމުކުރުމެވެ.

1. ބީލަންތައް އަގު ވަޒަންކުރުމުގައި ބަލާނެ މިންގަނޑުތައް

މިމަސައްކަތަށް ހުށަހަޅާ ބީލަންތައް އިވެލުއޭޓްކުރުމުގައި މާރކްސް ދެވޭނީ ތިރީގައި ބަޔާންކުރެވިފައިވާ ގޮތުގެ މަތިންނެވެ.

* **އަގު – %50**
* **މަސައްކަތުގެ ތަޖުރިބާ- %30**

1. ކޯށްފައިވާ މަސައްކަތް (30%)

* އިވެލުއޭޝަންގަ ބެލެވޭނީ ވޭތުވެދިޔަ 5 އަހަރު ދުވަހު ކޮށްފައިވާ މަސައްކަތްތަކަށް އެކަންޏެވެ.
* އިވެލުއޭޝަންގައި މިކަމާއި ގުޅުންހުރި މަސައްކަތްތަކަށް ދިނުމަށް ހަމަޖެހިފައިވަނީ 15 އިންސައްތައެވެ.
* އިވެލުއޭޝަންގައި ޖުމްލަކޮށް ކޮށްފައިވާ އާންމު މަސައްކަތްތަކަށް ދިނުމަށް ހަމަޖެހިފައިވަނީ 15 އިންސައްތައެވެ.
* މަސައްކަތު ތަޖުރިބާ ހުރި މިންވަރު އިވެލުއޭޓްކުރުމުގައި ބެލެވޭނެ މިންގަނޑަކީ، މިކަމާއި ގުޅޭ މަސައްކަތްތަކަށްވެސް އަދި އާންމުކޮށް ކޮށްފައިވާ މަސައްކަތްތަކަށްވެސް ކޮންމެ މަސައްކަތަކަށްވެސް ހުށަހަޅާފައިވާ ލިޔުން ފުރިހަމަ ކަމުގައިވާނަމަ، 03 ޕޮއިންޓެވެ (03 އިންސައްތަ).
* **ކުންފުނީގެ މާލީ ޙާލަތު ހުރި މިންވަރު (20%)** 
  + ވޭތުވެދިޔަ 02 އަހަރުގެ ތެރޭގައި 1,000,000/-ރ (އެއްމިލިޔަން) ދިވެހި ރުފިޔާ އަށްވުރެ މަތީގެ 03 ޕްރޮޖެކްޓް ހިންގާފައިވާ ކަމުގެ ލިޔުން (މަސައްކަތް ނިންމި ކަމުގެ ލިޔުން) ހުށަހަޅާފައިވާނަމަ މި ބަޔަށް ހަމަޖެހިފައިވާ 20% ފުރިހަމަޔަށް ލިބޭނެއެވެ. އަދި މި ކެޓަގަރީގައި ހިމެނޭ ޕްރޮޖެކްޓްގެ ޢަދަދު 03 ޕްރޮޖެކްޓަށްވުރެ މަދުނަމަ ޕްރޯރޭޓާގެ އުޞޫލުން މި ކެޓަގަރީން މާރކްސް ދެވޭނެއެވެ. އަދި،
  + ވޭތުވެދިޔާ 02 އަހަރުގެ ތެރޭގައި 400,000ރ (ހަތަރު ލައްކަ) ދިވެހި ރުފިޔާ އާއި 1,000,000ރ (އެއްމިލިޔަން) ދިވެހި ރުފިޔާއާއި ދެމެދުގެ 06 މަސައްކަތް ކޮށްފައިވާކަމަށް ލިޔުން (މަސައްކަތް ނިންމި ކަމުގެ ލިޔުން) ހުށަހަޅާފައިވާނަމަވެސް މި ބަޔަށް ކަނޑައަޅުއްވާފައިވާ 20% ފުރިހަމަޔަށް ލިބޭނެއެވެ. އަދި މި ކެޓަގަރީގައި ހިމެނޭ ޕްރޮޖެކްޓްގެ ޢަދަދު 06 ޕްރޮޖެކްޓަށްވުރެ މަދުނަމަ ޕްރޯރޭޓާގެ އުޞޫލުން މި ކެޓަގަރީން މާރކްސް ދެވޭނެއެވެ.
  + މާލީ ޙާލަތު ބަޔާންކުރުމަށް ހުށަހަޅާ ލިޔުންތަކުގެ ތެރިއިން 400,000ރ (ހަތަރު ލައްކަ) އަށް ވުރެ ދަށުގެ އަދަދަކަށް ކޮށްފައިވާ މަސައްކަތްތަށް މިބައިގެ އިވެލުއޭޝަންގައި ނުބެލެވޭނެއެވެ.

ނޯޓް:

* މަސައްކަތު ތަޖުރިބާ ހުރި މިންވަރު ހާމަކުރުމުގައި އަދި މާލީ ޙާލާތު ހުރި މިންވަރު ހާމަކޮށްދިނުމަށް ހުށަހަޅާ ލިޔުމަކީ، މަސައްކަތް ކޮށްފައިވާ ތާރީޙް، މަސައްކަތުގެ ޖުމްލަ އަގު އަދި މަސައްކަތުގެ ބާވަތް ހާމަވާން ޖެހޭ ލިޔުމަކަށް ވާންޖެހޭނެއެވެ.
* މަސައްކަތަށް ހޮވޭނީ އިވެލުއޭޝަންއިން އެންމެ މަތިން މަރކްސް ލިބޭ ފަރާތެކެވެ.

1. ހުށައަޅާ ބީލަމާއިއެކު ހުށައަޅަންޖެހޭ ތަކެތި

* ކުންފުންޏެއްނަމަ، ކުންފުނީގެ ރަޖިސްޓްރީގެ ކޮޕީ.
* ޖީ.އެސް.ޓީއަށް ރަޖިސްޓްރީ ކޮށްފައިވާ ފަރާތްތަކުގެ ޖީ.އެސް.ޓީ ރަޖިސްޓްރޭޝަން ކޮޕީ.
* މިނިސްޓްރީ އޮފް ހައުސިންގ އެންޑް އިންފްރާސްޓްރަކްޗަރގައި ކޮންސްޓްރަކްޝަން ކުންފުންޏެއްގެ ގޮތުގައި ރަޖިސްޓަރީ ވެފައި ވާ ކަމުގެ ލިޔުން.
* ދައުލަތަށް ދައްކަންޖެހޭ އެއްވެސް ފައިސާ އެއް ނެތްކަން ހާމަކޮށްދޭ ލިޔުމެއް (މޯލްޑިވްސް އިންލެންޑް ރެވިނިއު އޮތޯރިޓީ) އިން ހޯދުމަށްފަހު.

1. ބީލަމާއި ގުޅޭ ޕްރީބިޑް ބައްދަލުވުން އަދި އަންދާސީ ހިސާބު ހުށަހެޅުން

* މިމަޝްރޫއުގެ ޕްރީ ބިޑް ބައްދަލުވުން އޮންނާނީ 03 އޮގަސްޓް 2017 ވާ ބުރާސްފަތި ދުވަހުގެ ހެނދުނު 11:00 ގައި މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނާރޖީގައެވެ.
* ބިޑު ހުޅުވުމަށް ހަމަޖެހިފައިވަނީ 10 އޮގަސްޓް 2017 ވާ ބުރާސްފަތި ދުވަހުގެ ހެނދުނު 11:30 ގައި މިނިސްޓްރީ އޮފް އެންވަޔަރަންމަންޓް އެންޑް އެނާރޖީގައި މަސައްކަތަށް އަންދާސީ ހިސާބު ހުށަހަޅުއްވާ ފަރާތްތަކުގެތެރެއިން މި ޖަލްސާގައި ބައިވެރިވެވަޑައިންނަވާ ބޭފުޅުންގެ ހާޒިރުގައެވެ.

1. ބީލަމާއި ގުޅޭ އިތުރު މަޢުލޫމާތު

* ބީލަން ހުށައަޅުއްވަން ވަޑައިގަންނަވަން ހަމަޖެހިފައިވާ ދުވަހުގެ ހަމަޖެހިފައިވާ ގަޑީގެ ފަހުން ހުށައަޅާ ބީލަންތަށް ބަލައެއް ނުގަނެވޭނެއެވެ.
* ހުށައަޅާ ބީލަން ތަކަށް މަދުވެގެން 90 ދުވަހުގެ ވެލިޑިޓީއެއް ދޭންވާނެއެވެ.
* މަސައްކަތް ފެށުމަށްޓަކައި ކޮންޓްރެކްޓަރަށް 15 އިންސައްތަޔަށް ވާ އަދަދުގެ އެޑްވާންސް ޕޭމަންޓަކަށް އެދެވިދާނެއެވެ، އެޑްވާންސް ޕޭމަންޓް ރައްދުކޮށްދެވޭނީ މާލިޔައްތު ޤާވާދުގައިވާ ގޮތަށް އޭގެ މިންގަނޑުތަކަށް ބަލައިގެންނެވެ.
* މުޅި މަސައްކަތުގެ 5 (ފަހެއް) އިންސައްތަޔަށް ވާ ފައިސާ ރިޓެންޝަންގެ ގޮތުގައި 6 (ހައެއް) މަސްދުވަހުގެ މުއްދަތަކަށް ހިފެހެއްޓޭނެއެވެ.
* ބީލަމާއި ގުޅޭ އިތުރު މަޢުލޫމާތު އޮޅުންފިލުވުމަށް ގުޅަންވީ ފަރާތްތަށް ތިރީގައިވާ ތާވަލްގައި އެވަނީއެވެ؛

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| **މަޢުލޫމާތުގެ ބާވަތް** | **ގުޅަންވީ ފަރާތް** | **ގުޅަންވީ ނަންބަރު** |
| ޕްރޮކިޔުމަންޓްގެ މަޢުލޫމާތެއް ސާފުކުރުމަށް | ޕްރޮކިޔުމަންޓް ޔުނިޓް / އެމް.އީ.އީ | 3018341 |
| މަސައްކަތާއި ގުޅޭ ޓެކްނިކަލް މަޢުލޫމާތެއް ސާފުކުރުމަށް | ވެސްޓް މެނޭޖްމަންޓް އެންޑް ޕްލިޔުޝަން ކޮންޓްރޯލް ޑިޕަރޓްމަންޓް / އެމް.އީ.އީ | 3018390 |
| މަސައްކަތް ކުރުމަށް ހަމަޖެހިފައިވާ ސައިޓާއި (ދ.ރިނބުދޫ) ބެހޭ މަޢުލޫމާތެއް ސާފުކުރުމަށް | ދ.ރިނބުދޫ ކައުންސިލްގެ ފޯކަލް ޕޮއިންޓް | 7503097 |

**\*މި ބީލަން ފޮތުގައިވާ ފޯމް 1، 2، 3 އަދި 4 ކޮންމެހެން ފުރިހަމަ ކުރަންޖެހޭނެއެވެ.**

ފޯމް 1: ކޮންޓްރެކްޓަރުގެ ޕްރޮޕޯސަލް

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|  | ބީލަން ހުށަހަޅާ ފަރާތުގެ ފުރިހަމަ ނަން: (ކުންފުންޏެއް ނަމަ މިނިސްޓްރީ އޮފް އިކޮނޮމިކް ޑިވޮލޮޕްމަންޓްގައި ކުންފުނި ރެޖިސްޓްރީ ކުރެވިފައިވާ ގޮތަށް) |
|  | އައި.ޑީ ކާޑް ނަންބަރު/ކުންފުނީގެ ރެޖިސްޓްރޭޝަން ނަންބަރު |

1. އަޅުގަނޑަކީ/މިކުންފުންޏަކީ މިބީލަމުގައި ބަޔަންކޮށްފައިވާ ބާވަތުގެ މަސައްކަތްކުރާ މީހަކީމެވެ/ކުންފުންޏެކެވެ.

1. ކޮންސްޓްރަކްޝަން މަސައްކަތް ކުރާ ބައެއްގެ ގޮތުގައި އަޅުގަނޑު/ކުންފުނި ހަރަކާތްތެރިވާތާ ......... އަހަރު ވެއްޖެއެވެ.
2. ބީލަމުގައި ބަޔާންކުރެވިފައިވާ މަސައްކަތްތައް ކުރުމަށް ތިރީގައި ބަޔާންކުރެވިފައިވާ މީހުން ފޯރުކޮށްދެވޭނެއެވެ.

ސްޕަރވައިޒަރ

އިންޖިނިއަރުން

ވެލްޑަރުން

ރާނާ މީހުން

ވަޑިން

މަސައްކަތު މީހުން (އެހީތެރިން)

( އެ މަސައްކަތަކާއި ގުޅޭ ގޮޅީގައި ރަނގަޅު ފާހަގަ 🗹 ޖައްސަވާށެވެ. )

ފޯމް 2: މަސައްކަތުގެ ތާވަލް

|  |  |
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| މަސައްކަތް މުޅިން ނިންމުމަށް ހުށަހަޅާ މުއްދަތު: |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ނިންމާ ތާރީޙް | ފެށޭ ތާރީޙް | ހަފްތާ | | | | | | | | | | މުއްދަތު (ދުވަސް) | މަސައްކަތްތައް |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ސައިޓް ސާފު ކުރުން |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ތަކެތި ހޯދުން |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ކޮނުމުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ކޮންކްރީޓް މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ރޭނުމުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ސިމެންތި ޖެހުމުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ކުލަ ލުމާއި ދަވާދުލުމުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ފުރާޅު މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ދަގަނޑުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ކަރަންޓުގެ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ފެންވައިރިންގ މަސައްކަތް |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ދޮރުތަށް ހެދުމާއި ހަރުކުރުން |

ނޯޓް: ތާވަލްގައި ވަގުތު ހިމަނާނީ ބީލަމުގައި ހިމެނިފައިވާ މަސައްކަތްތަކަށް އެކަންޏެވެ.

ފޯމް 3: މަސައްކަތުގެ އަގު

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| --- | --- | --- | --- | --- | --- |
| **CONSTRUCTION OF WASTE MANAGEMENT CENTRE** | | | | | |
| **Bill of Quantities** | | | | | |
| **No** | **Item** | **Unit** | **Quantity** | **Rate** | **Amount** |
| **1** | **Preliminaries** |  |  |  |  |
| 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 |  |  |
| 1.3 | Setup sign boards on site as specified | LS | 1 |  |  |
| 1.4 | Clean up site upon completion of works | LS | 1 |  |  |
| 1.5 | Demobilization | LS | 1 |  |  |
|  |  |  |  |  |  |
| **2** | **Site Clearance** |  |  |  |  |
| 2.1 | Allow for all site clean-up work including relocation of existing waste to a temporary location identified by island council | LS | 1 |  |  |
|  |  |  |  |  |  |
| **3** | **Earth works** |  |  |  |  |
|  | *Allow for all excavation work for foundations as follows* |  |  |  |  |
| 3.1 | Collection bay foundation | m3 | 5.23 |  |  |
| 3.2 | Perimeter wall | m3 | 4.77 |  |  |
| 3.4 | Flood light pole | m3 | 0.13 |  |  |
| 3.5 | Ground levelling works for ground slab works | m2 | 267.61 |  |  |
| 3.6 | Leachate collection tank | m3 | 6.00 |  |  |
| 3.7 | Setting up a ground water well in the location shown | LS | 1 |  |  |
|  |  |  |  |  |  |
| **4** | **Concrete works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 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 | 11.76 |  |  |
| 4.2 | Wall Footing of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing | m3 | 3.28 |  |  |
| 4.3 | Middle Beams of Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing. | m3 | 0.98 |  |  |
| 4.4 | Lintel for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing. | m3 | 0.98 |  |  |
| 4.5 | Columns for Collection Bay Area walls cast according to drawing. Reinforcement shall be as shown on drawing. | m3 | 1.45 |  |  |
| 4.6 | Concrete column for sorting area platform cast according to drawing. | m3 | 0.612 |  |  |
| 4.7 | Provide 150mm thick reinforced concrete slab for sorting area platform cast according to drawing. Reinforcements shall be as shown on drawing. | m3 | 1.2 |  |  |
|  | *Compost Slab* |  |  |  |  |
| 4.8 | Compost slab panels cast according to the slopes shown on drawing. Reinforcement shall be as shown on drawings. | m3 | 7.50 |  |  |
| 4.9 | B1 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing. | m3 | 1.72 |  |  |
| 4.10 | B2 beams of compost slab cast according to drawing. Reinforcement shall be as shown on drawing. | m3 | 0.37 |  |  |
| 4.11 | B3 beams of compost slab with a mortar layer at an adequate slope, cast according to drawing. Reinforcement shall be as shown on drawing. Rate shall include reinforcement work, formwork, casting and mortar works. | m3 | 1.35 |  |  |
| 4.12 | Provide 100mm concrete floor screed for composting area. Reinforcement for the slab shall be R6@150 BW single layer | m3 | 7.50 |  |  |
| 4.13 | Leachate collection tank with primary and secondary tanks as shown on drawing. Rate shall include all formwork, casting and placing of the tank | Nos | 1 |  |  |
|  | *Perimeter Wall* |  |  |  |  |
| 4.14 | Perimeter wall column | m3 | 1.33 |  |  |
| 4.15 | Perimeter wall beam | m3 | 1.74 |  |  |
|  | *Other* |  |  |  |  |
| 4.16 | Foundation for flood light pole | m3 | 0.29 |  |  |
| 4.17 | Ground water well casting work | LS | 1 |  |  |
|  |  |  |  |  |  |
| **5** | **Structural steel works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 5.1 | Provide 75mm G.I pipe as structural columns for collection bay area. Rate shall include all fixings at both ends of the pipe for necessary connections as shown on drawing | Nos | 8.00 |  |  |
| 5.2 | Provide truss as shown on the drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and setting up the truss | m | 6.15 |  |  |
|  | *Perimeter Wall* |  |  |  |  |
| 5.3 | Perimeter fence using 50mm G.I pipe as shown on drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and, setting up the fence. | m | 45.40 |  |  |
|  | *Other* |  |  |  |  |
| 5.4 | Perimeter fence using 50mm G.I pipe as shown on drawing. Rate shall include all cuttings, weldings, applying of protective coating for welded joints, and, setting up the fence. | m | 45.40 |  |  |
| 5.5 | Provide 75mm G.I pipe as flood light fixing poles. Rate shall include installation charges as shown on drawing. | Nos | 2 |  |  |
|  |  |  |  |  |  |
| **6** | **Masonry works** |  |  |  |  |
|  | *Collection Bay Area walls of thickness 150mm* |  |  |  |  |
| 6.1 | 3500mm high walls for Collection Bay Walls | m3 | 22.21 |  |  |
| 6.2 | 1500mm high walls for Collection Bay section separation | m3 | 2.40 |  |  |
|  | *Perimeter walls of thickness 150mm* |  |  |  |  |
| 6.3 | 1000mm high wall for perimeter wall | m3 | 5.79 |  |  |
|  | *Other* |  |  |  |  |
| 6.4 | 2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level) | m3 | 1.76 |  |  |
|  |  |  |  |  |  |
| **7** | **Plastering works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 7.1 | 25mm plastering on 3500mm high walls for Collection Bay Outer Walls | m2 | 350.45 |  |  |
| 7.2 | 25mm plastering on 1500mm high walls for Collection Bay section separation | m2 | 51.30 |  |  |
|  | *Perimeter Wall* |  |  |  |  |
| 7.3 | 25mm plastering on 1000mm wall for perimeter wall | m2 | 98.51 |  |  |
|  | *Other* |  |  |  |  |
| 7.4 | 2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level) | m2 | 12.58 |  |  |
|  |  |  |  |  |  |
| **8** | **Painting works** |  |  |  |  |
|  | *Collection Bay Area Walls* |  |  |  |  |
| 8.1 | Apply emulsion paint coating on 3500mm high walls for Collection Bay Outer Walls | m2 | 350.45 |  |  |
| 8.2 | Apply emulsion paint coating on 1500mm high walls for Collection Bay section separation | m2 | 51.30 |  |  |
|  | *Collection Bay Area Steel Members* |  |  |  |  |
| 8.3 | Apply emulsion paint coating on G.I columns of collection bay | LS | 1 |  |  |
| 8.4 | Apply emulsion paint coating on the roof trusses | LS | 1 |  |  |
| 8.5 | Apply paint coating on the metal sliding door of the Hazardous waste storage room | LS | 1 |  |  |
| 8.6 | Apply paint coating on the two metal folding doors of the equipment room | LS | 2 |  |  |
|  | *Perimeter Wall* |  |  |  |  |
| 8.7 | Apply emulsion paint coating on 1000mm high wall for perimeter fence | m2 | 98.51 |  |  |
|  | *Perimeter Wall Steel members* |  |  |  |  |
| 8.7 | Apply emulsion paint coating on G.I members of perimeter fence | LS | 1 |  |  |
| 8.9 | Apply emulsion paint coating on G.I members and MS Sheets of gates | LS | 1 |  |  |
|  | *Other* |  |  |  |  |
| 8.10 | Apply paint coating on flood light pole | LS | 2 |  |  |
| 8.11 | Apply emulsion paint coating on the removable timber covers of the leachate collection tanks | LS | 2 |  |  |
| 8.12 | Apply emulsion paint coating on 2000mm high walls of thickness 150mm for Pump House (1700mm high wall above ground level with 300mm below ground level) | m2 | 12.58 |  |  |
|  |  |  |  |  |  |
| **9** | **Roofing works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 9.1 | Lysaght roofing sheet for collection bay area. Rate shall include all necessary laps, fastening, fixtures and sealing of joints | m2 | 131.28 |  |  |
| 9.2 | Roof flashing. Rate shall include fastening and sealing of joints | m | 35.95 |  |  |
| 9.3 | Timber beams - 150 x 75mm. Rate shall include for all fixing and joints. | m | 82.05 |  |  |
| 9.4 | Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints | m | 30.39 |  |  |
| 9.5 | Timber battens - 50 x 38mm. Rate shall include for all fixing and joints. | m | 45.58 |  |  |
|  | *Other* |  |  |  |  |
| 9.6 | Lysaght roofing sheet for Pump House. Rate shall include all necessary laps, fastening, fixtures and sealing of joints | m2 | 4.00 |  |  |
| 9.7 | Pump House Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints | m | 4.00 |  |  |
| 9.8 | Pump House Timber battens - 50 x 38mm. Rate shall include for all fixing and joints. | m | 6.67 |  |  |
|  |  |  |  |  |  |
| **10** | **Electrical works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 10.1 | Provide 3 phase 13 A power sockets in equipment room. Rate shall include connection to circuit breaker using 4sqmm power supply cable and all necessary accessories | Nos | 4 |  |  |
| 10.2 | Provide 100W ceiling mount energy saving light in equipment room, provide the switches near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker | Nos | 1 |  |  |
| 10.3 | Provide 100W ceiling mount energy saving light in hazardous waste storage room, provide the switches near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker | Nos | 1 |  |  |
| 10.4 | Provide and mount a Ceiling fan inside the Equipment Room as indicated. Rate shall include provision of switch near the circuit breaker inside the equipment room, connection to circuit breaker and all necessary accessories | Nos | 1 |  |  |
| 10.5 | Supply and fix electric meter, 4 pole MCCB, Single Phase distribution board and 3 Phase distribution board as shown on drawing. Earth link and connection to earth rod with proper earth pit should be provided as well | LS | 1 |  |  |
| 10.6 | Provide and mount a exhaust fan inside the Equipment Room and 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 | 2 |  |  |
| 10.7 | Provide weather proof switch for all lights | LS | 1 |  |  |
| 10.8 | Provide 25 sqmm 4 core power supply cable from nearest distribution box to waste yard distribution board | m | 100 |  |  |
|  | *Other* |  |  |  |  |
| 10.9 | Provide 13 A power socket for well water pump inside the Pump House, provide the switch for the pump near circuit breaker inside the equipment room. Rate shall include connection to circuit breaker. | Nos | 1 |  |  |
| 10.10 | 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 |  |  |
| 10.11 | Provide well water pump. Rate shall include its fixing inside the Pump House | Nos | 1 |  |  |
|  |  |  |  |  |  |
| **11** | **Plumbing works** |  |  |  |  |
| 11.1 | Provide connection from pump to ground water well. Rate shall include all necessary pipes, bends, fittings and foot valve 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 | 2 |  |  |
| 11.4 | Supply 25mm diameter flexible hose | m | 25.0 |  |  |
|  |  |  |  |  |  |
| **12** | **Doors and windows** |  |  |  |  |
|  | *Metal Doors* |  |  |  |  |
| 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 |  |  |
| 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 |  |  |
|  | *Timber Doors* |  |  |  |  |
| 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 |  |  |
|  |  |  |  |  |  |
| **13** | **Other Works** |  |  |  |  |
|  | *Collection Bay Area* |  |  |  |  |
| 13.1 | Provide a 5" vinyl roof gutter with 2" x 3" downspout. Rates shall include all materials and fastenings. | LS | 1 |  |  |
| 13.2 | Provide 12" x 12" ceramic tiles for the top and the sides of the concrete slab for sorting area platform | m2 | 9.80 |  |  |
|  | *Perimeter Wall* |  |  |  |  |
| 13.3 | 50 x 50 PVC coated mesh. Rate shall include properly securing the mesh to G.I steel frame | m2 | 95.53 |  |  |
|  | *Compost Slab* |  |  |  |  |
| 13.4 | Provide HDPE membrane below compost slab, Concrete screed and collection bay floor slab | m2 | 267.61 |  |  |
| 13.5 | Provide expansion joint in slab and fill the joint with polyethylene joint filler form and silicone as shown on drawing | m | 15.00 |  |  |
| 13.6 | Provide two timber removable covers for the leachate collection tank of size 1000x2000mm. Rates shall include all materials, fastenings and handles. | LS | 2 |  |  |
| 13.7 | Connection of compost slab drain to primary tank of the leachate tank including ball valve | LS | 1 |  |  |
|  |  |  |  | **TOTAL** |  |

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|  |  |  |
| --- | --- | --- |
| **CONSTRUCTION OF WASTE COLLECTION CENTRE – DHAALU RINBUDHOO** | | |
|
| **Bill of Quantities** | | |
| **SUMMARY SHEET** | | |
|  |  |  |
| **Bill No** | **Item** | **Amount** |
| **1** | **Preliminaries** |  |
| **2** | **Site Clearance** |  |
| **3** | **Earth works** |  |
| **4** | **Concrete works** |  |
| **5** | **Masonry works** |  |
| **6** | **Plastering works** |  |
| **7** | **Structural steel works** |  |
| **8** | **Painting works** |  |
| **9** | **Electrical works** |  |
| **10** | **Doors and windows** |  |
| **11** | **Roofing works** |  |
| **12** | **Plumbing works** |  |
| **13** | **Others** |  |
|  | **Sub Total** |  |
|  | **GST 6%** |  |
|  |  |  |
|  | **GRAND TOTAL** |  |

ޖަދުވަލް 1 : ކުންފުނި ރަޖިސްޓްރޭޝަން އަދި ޖީ.އެސް.ޓީ ރެޖިސްޓްރޭޝަން ސެޓްފިކެޓް / ދިވެހި ރައްޔިތެއްކަންއަންގައިދޭ ކާޑްގެ ކޮޕީ

ޖަދުވަލް 2 : މަސައްކަތާއި ގުޅޭ ކުރެހުންތައް

ޖަދުވަލް 3 : މަސައްކަތުގައި ބަލަންޖެހޭ ޓެކްނިކަލް ސްޕެސިފިކޭޝްންސް

**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.
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.

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