**Tendered Prices**

**ABC Construction $40,100,000 (+ $158,000 for sustainability attributes)**

**Road Builder $39,600,000 (+ $36,900 for sustainability attributes)**

**Gantt Roads $38,300,000 (+ $208,900 for sustainability attributes)**

**Sun Builder $37,900,000**

**Clock Works $39,000,000 (+ $240,700 for sustainability attributes)**

**SCHEDULE XX**

**SUSTAINABILITY ATTRIBUTES**

**(Page 1 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: ABC Construction

Signed: …A.Smith

The Tenderer is to advise the nature and extent of the proposed sustainable materials and sustainable technologies.

If the tender is subsequently accepted by the Principal, the use of the proposed sustainable materials and sustainable technologies shall be incorporated in the Works and shall conform to the requirements of the Contract.

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Other Sustainability Initiatives**  **This category includes materials used in the project other than that in the pavement layers. The tenderer is encouraged to investigate available opportunities and list them below. Examples include:**   * **glass cullet in drainage;** * **geopolymer concrete in suitable applications;** * **stormwater drainage pipes made from materials other than Portland cement concrete;** * **posts, tree guards, or retaining wall sleepers made from recycled plastic** * **the use of active reactors;** * **low voltage intersections;** * **LED lighting; and,** * **Operational renewable energy (e.g. solar panels and wind turbines).**   **This category does not include initiatives such as the following, because they are requirements in VicRoads contracts which are routinely delivered;**   * **Recycling of construction wastes (i.e. RAP or concrete);** * **Non Potable Water;** * **Reuse or Tree mulching; and,** * **LED Traffic Lighting.** | | | |
| **Item** | **Conformance to a VicRoads standard (Where Yes, state which VicRoads standard or where any other standard, state that standard)** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| ‘Green’ Street Lighting | Yes | No | $120,000 |
| Low Embodied Carbon Stormwater Piping | Yes | Yes | $0 |
| Manufactured Sand | Yes | No | $10,000 |
| Thermally Activated Road Symbols | N/A | No | $200,000 |
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This initiative would not be valued as it has not been approved for use on VicRoads Road Network

**SCHEDULE xx**

**SUSTAINABILITY ATTRIBUTES**

**(Page 2 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: ABC Construction

Signed: A. Smith

Any proposed material MUST conform to the relevant VicRoads specification. For example materials with RAP levels exceeding the allowance in the relevant specification will not be considered. It is appreciated that the tender will not have selected a supply source, however, the table below will allow a commitment to the level of sustainability of the pavement material through completing the ‘Proposed Pavement Rating’ column.

This would include crushed concrete, asphalt with RAP, glass cullet and/or warm mix asphalt

\* VicRoads evaluates its pavement sustainability. Additional Information available through the construction material manufacturers as part of the VicRoads registered design mix process.

In order to maximise the value of their tender, tenderers are encouraged to either preferably to engage with the material suppliers or if this is not possible to nominate pavements form the guidance table below.

|  |  |  |
| --- | --- | --- |
| Warm Mix Asphalt | Recycled Content\* | Rating |
| No | <20% of allowable recycled content | 0 |
| Yes | <20% of allowable recycled content | 2 |
| No | 20 to 70% of allowable recycled content | 5 |
| Yes | 20 to 70% of allowable recycled content | 7 |
| No | >70% of allowable recycled content | 10 |
| Yes | >70% of allowable recycled content | 12 |

\* Mixes which elect to utilise additional levels of RAP whose tender response has integrated the additional testing requirements as per Hot Mix Specification section 407.09 (c), will receive an additional 2 rating points for the pavement types and layers as nominated in this schedule.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. Proposed Pavement Layer Materials including Recycled Materials** | | | | | |
| **## Author to Complete** | | **TENDERER TO COMPLETE** | | | |
| **##Pavement layer** | **##Principals Nominated Pavement Type** | **Proposed Material** | **Proposed Pavement Rating\*** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| **Lower Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | DSA 1 | Crushed Concrete | 10 | Yes |  |
|  | DSA 2 | Crushed Concrete | 10 | Yes |  |
| **Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | Yes |  |
| **Upper Subbase** | DSA 1 | CT Crushed Concrete | 10 | No | $3,000 |
|  | DSA 2 | CT Crushed Concrete | 10 | No | $5,000 |
| **Basecourse** | Pavement Type X1 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X2 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | Yes |  |
|  | DSA 1 | WMA + RAP + Extra testing | 14 | No | $3,000 |
|  | DSA 2 | WMA + RAP + Extra testing | 14 | No | $6,000 |
| **Intermediate Course 2** | DSA 1 | WMA + RAP + Extra testing | 14 | No | $2,000 |
|  | DSA 2 | WMA + RAP + Extra testing | 14 | No | $4,000 |
| **Intermediate Course 1** | DSA 2 | WMA + RAP + Extra testing | 14 | No | $5,000 |
| **Wearing Course** | DSA 1 | WMA | 2 | Yes |  |
|  | DSA 2 | WMA | 2 | Yes |  |
| **Sprayseal** | Pavement Type X1 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X2 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X3 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X4 | Sprayseal | 0 | Yes |  |

**SCHEDULE XX**

**SUSTAINABILITY ATTRIBUTES**

**(Page 1 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Road Builder

Signed: …A.Builder

The Tenderer is to advise the nature and extent of the proposed sustainable materials and sustainable technologies.

If the tender is subsequently accepted by the Principal, the use of the proposed sustainable materials and sustainable technologies shall be incorporated in the Works and shall conform to the requirements of the Contract.

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Other Sustainability Initiatives**  **This category includes materials used in the project other than that in the pavement layers. The tenderer is encouraged to investigate available opportunities and list them below. Examples include:**   * **glass cullet in drainage;** * **geopolymer concrete in suitable applications;** * **stormwater drainage pipes made from materials other than Portland cement concrete;** * **posts, tree guards, or retaining wall sleepers made from recycled plastic** * **the use of active reactors;** * **low voltage intersections;** * **LED lighting; and,** * **Operational renewable energy (e.g. solar panels and wind turbines).**   **This category does not include initiatives such as the following, because they are requirements in VicRoads contracts which are routinely delivered;**   * **Recycling of construction wastes (i.e. RAP or concrete);** * **Non Potable Water;** * **Reuse or Tree mulching; and,** * **LED Traffic Lighting.** | | | |
| **Item** | **Conformance to a VicRoads standard (Where Yes, state which VicRoads standard or where any other standard, state that standard)** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| Road Furniture made from Recycled Materials | Yes | Yes |  |
| Solar Panels | N/A | No | $40,000 |
| Infrastructure reuse | Yes | Yes |  |
| Low Embodied Carbon Noise Walls | Yes | No | $70,000 |
| Relocating Vegetation | Yes | No | $40,000 |
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This initiative would not be recognised or valued as it is not within the scope of sustainable procurement

**SCHEDULE xx**

**SUSTAINABILITY ATTRIBUTES**

**(Page 2 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Road Builder

Signed: A. Builder

Any proposed material MUST conform to the relevant VicRoads specification. For example materials with RAP levels exceeding the allowance in the relevant specification will not be considered. It is appreciated that the tender will not have selected a supply source, however, the table below will allow a commitment to the level of sustainability of the pavement material through completing the ‘Proposed Pavement Rating’ column.

This would include crushed concrete, asphalt with RAP, glass cullet and/or warm mix asphalt

\* VicRoads evaluates its pavement sustainability. Additional Information available through the construction material manufacturers as part of the VicRoads registered design mix process.

In order to maximise the value of their tender, tenderers are encouraged to either preferably to engage with the material suppliers or if this is not possible to nominate pavements form the guidance table below.

|  |  |  |
| --- | --- | --- |
| Warm Mix Asphalt | Recycled Content\* | Rating |
| No | <20% of allowable recycled content | 0 |
| Yes | <20% of allowable recycled content | 2 |
| No | 20 to 70% of allowable recycled content | 5 |
| Yes | 20 to 70% of allowable recycled content | 7 |
| No | >70% of allowable recycled content | 10 |
| Yes | >70% of allowable recycled content | 12 |

\* Mixes which elect to utilise additional levels of RAP whose tender response has integrated the additional testing requirements as per Hot Mix Specification section 407.09 (c), will receive an additional 2 rating points for the pavement types and layers as nominated in this schedule.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. Proposed Pavement Layer Materials including Recycled Materials** | | | | | |
| **## Author to Complete** | | **TENDERER TO COMPLETE** | | | |
| **##Pavement layer** | **##Principals Nominated Pavement Type** | **Proposed Material** | **Proposed Pavement Rating\*** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| **Lower Subbase** | Pavement Type X1 | Crushed Concrete | 10 | No | -$23,000 |
|  | Pavement Type X2 | Crushed Concrete | 10 | No | -$5,000 |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | -$1,000 |
|  | DSA 1 | Crushed Concrete | 10 | No | -$6,000 |
|  | DSA 2 | Crushed Concrete | 10 | No | -$7,000 |
| **Subbase** | Pavement Type X1 | Crushed Concrete | 10 | No | -$30,000 |
|  | Pavement Type X2 | Crushed Concrete | 10 | No | -$4,500 |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | -$1,000 |
|  | Pavement Type X4 | Crushed Concrete | 10 | No | -$3,500 |
| **Upper Subbase** | DSA 1 | CT Crushed Concrete | 10 | Yes |  |
|  | DSA 2 | CT Crushed Concrete | 10 | Yes |  |
| **Basecourse** | Pavement Type X1 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X2 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | -$1,000 |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | -$5,000 |
|  | DSA 1 | WMA + RAP | 12 | No | $3,500 |
|  | DSA 2 | WMA + RAP | 12 | No | $5,400 |
| **Intermediate Course 2** | DSA 1 | WMA + RAP | 12 | No | $1,500 |
|  | DSA 2 | WMA + RAP | 12 | No | $2,000 |
| **Intermediate Course 1** | DSA 2 | WMA + RAP | 12 | No | $1,500 |
| **Wearing Course** | DSA 1 | WMA | 2 | Yes |  |
|  | DSA 2 | WMA | 2 | Yes |  |
| **Sprayseal** | Pavement Type X1 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X2 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X3 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X4 | Sprayseal | 0 | Yes |  |

**SCHEDULE XX**

**SUSTAINABILITY ATTRIBUTES**

**(Page 1 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Gantt Roads

Signed: ….A. Jones

The Tenderer is to advise the nature and extent of the proposed sustainable materials and sustainable technologies.

If the tender is subsequently accepted by the Principal, the use of the proposed sustainable materials and sustainable technologies shall be incorporated in the Works and shall conform to the requirements of the Contract.

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Other Sustainability Initiatives**  **This category includes materials used in the project other than that in the pavement layers. The tenderer is encouraged to investigate available opportunities and list them below. Examples include:**   * **glass cullet in drainage;** * **geopolymer concrete in suitable applications;** * **stormwater drainage pipes made from materials other than Portland cement concrete;** * **posts, tree guards, or retaining wall sleepers made from recycled plastic** * **the use of active reactors;** * **low voltage intersections;** * **LED lighting; and,** * **Operational renewable energy (e.g. solar panels and wind turbines).**   **This category does not include initiatives such as the following, because they are requirements in VicRoads contracts which are routinely delivered;**   * **Recycling of construction wastes (i.e. RAP or concrete);** * **Non Potable Water;** * **Reuse or Tree mulching; and,** * **LED Traffic Lighting.** | | | |
| **Item** | **Conformance to a VicRoads standard (Where Yes, state which VicRoads standard or where any other standard, state that standard)** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| ‘Green’ Street Lighting | Yes | No | $135,000 |
| Manufactured Sand | Yes | Yes |  |
| Solar Panels | Yes | No | $45,000 |
| Low Embodied Carbon Noise Walls | Yes | No |  |
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**SCHEDULE xx**

**SUSTAINABILITY ATTRIBUTES**

**(Page 2 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Gantt Roads

Signed: A. Jones

Any proposed material MUST conform to the relevant VicRoads specification. For example materials with RAP levels exceeding the allowance in the relevant specification will not be considered. It is appreciated that the tender will not have selected a supply source, however, the table below will allow a commitment to the level of sustainability of the pavement material through completing the ‘Proposed Pavement Rating’ column.

This would include crushed concrete, asphalt with RAP, glass cullet and/or warm mix asphalt

\* VicRoads evaluates its pavement sustainability. Additional Information available through the construction material manufacturers as part of the VicRoads registered design mix process.

In order to maximise the value of their tender, tenderers are encouraged to either preferably to engage with the material suppliers or if this is not possible to nominate pavements form the guidance table below.

|  |  |  |
| --- | --- | --- |
| Warm Mix Asphalt | Recycled Content\* | Rating |
| No | <20% of allowable recycled content | 0 |
| Yes | <20% of allowable recycled content | 2 |
| No | 20 to 70% of allowable recycled content | 5 |
| Yes | 20 to 70% of allowable recycled content | 7 |
| No | >70% of allowable recycled content | 10 |
| Yes | >70% of allowable recycled content | 12 |

\* Mixes which elect to utilise additional levels of RAP whose tender response has integrated the additional testing requirements as per Hot Mix Specification section 407.09 (c), will receive an additional 2 rating points for the pavement types and layers as nominated in this schedule.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. Proposed Pavement Layer Materials including Recycled Materials** | | | | | |
| **## Author to Complete** | | **TENDERER TO COMPLETE** | | | |
| **##Pavement layer** | **##Principals Nominated Pavement Type** | **Proposed Material** | **Proposed Pavement Rating\*** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| **Lower Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | DSA 1 | Crushed Concrete | 10 | Yes |  |
|  | DSA 2 | Crushed Concrete | 10 | Yes |  |
| **Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | Yes |  |
| **Upper Subbase** | DSA 1 | CT Crushed Concrete | 10 | No | $2000 |
|  | DSA 2 | CT Crushed Concrete | 10 | No | $4500 |
| **Basecourse** | Pavement Type X1 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X2 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | No |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | No |  |
|  | DSA 1 | HMA + RAP + Extra testing | 12 | No | $4,500 |
|  | DSA 2 | HMA + RAP+ Extra Testing | 12 | No | $6,400 |
| **Intermediate Course 2** | DSA 1 | HMA + RAP+ Extra Testing | 12 | No | $1,500 |
|  | DSA 2 | HMA + RAP+ Extra Testing | 12 | No | $3,000 |
| **Intermediate Course 1** | DSA 2 | HMA + RAP+ Extra Testing | 12 | No | $2,000 |
| **Wearing Course** | DSA 1 | WMA | 2 | No | $3,000 |
|  | DSA 2 | WMA | 2 | No | $2,000 |
| **Sprayseal** | Pavement Type X1 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X2 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X3 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X4 | Sprayseal | 0 | Yes |  |

**SCHEDULE XX**

**SUSTAINABILITY ATTRIBUTES**

**(Page 1 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Sun Builders

Signed: …S. Smith

The Tenderer is to advise the nature and extent of the proposed sustainable materials and sustainable technologies.

If the tender is subsequently accepted by the Principal, the use of the proposed sustainable materials and sustainable technologies shall be incorporated in the Works and shall conform to the requirements of the Contract.

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| --- | --- | --- | --- |
| **1. Other Sustainability Initiatives**  **This category includes materials used in the project other than that in the pavement layers. The tenderer is encouraged to investigate available opportunities and list them below. Examples include:**   * **glass cullet in drainage;** * **geopolymer concrete in suitable applications;** * **stormwater drainage pipes made from materials other than Portland cement concrete;** * **posts, tree guards, or retaining wall sleepers made from recycled plastic** * **the use of active reactors;** * **low voltage intersections;** * **LED lighting; and,** * **Operational renewable energy (e.g. solar panels and wind turbines).**   **This category does not include initiatives such as the following, because they are requirements in VicRoads contracts which are routinely delivered;**   * **Recycling of construction wastes (i.e. RAP or concrete);** * **Non Potable Water;** * **Reuse or Tree mulching; and,** * **LED Traffic Lighting.** | | | |
| **Item** | **Conformance to a VicRoads standard (Where Yes, state which VicRoads standard or where any other standard, state that standard)** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| Infrastructure reuse |  | Yes |  |
| Manufactured Sand |  | Yes |  |
| Relocating Vegetation |  | Yes |  |
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This initiative would not be recognised or valued as it is not within the scope of sustainable procurement

**SCHEDULE xx**

**SUSTAINABILITY ATTRIBUTES**

**(Page 2 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Sun Builders

Signed: S. Smith

Any proposed material MUST conform to the relevant VicRoads specification. For example materials with RAP levels exceeding the allowance in the relevant specification will not be considered. It is appreciated that the tender will not have selected a supply source, however, the table below will allow a commitment to the level of sustainability of the pavement material through completing the ‘Proposed Pavement Rating’ column.

This would include crushed concrete, asphalt with RAP, glass cullet and/or warm mix asphalt

\* VicRoads evaluates its pavement sustainability. Additional Information available through the construction material manufacturers as part of the VicRoads registered design mix process.

In order to maximise the value of their tender, tenderers are encouraged to either preferably to engage with the material suppliers or if this is not possible to nominate pavements form the guidance table below.

|  |  |  |
| --- | --- | --- |
| Warm Mix Asphalt | Recycled Content\* | Rating |
| No | <20% of allowable recycled content | 0 |
| Yes | <20% of allowable recycled content | 2 |
| No | 20 to 70% of allowable recycled content | 5 |
| Yes | 20 to 70% of allowable recycled content | 7 |
| No | >70% of allowable recycled content | 10 |
| Yes | >70% of allowable recycled content | 12 |

\* Mixes which elect to utilise additional levels of RAP whose tender response has integrated the additional testing requirements as per Hot Mix Specification section 407.09 (c), will receive an additional 2 rating points for the pavement types and layers as nominated in this schedule.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. Proposed Pavement Layer Materials including Recycled Materials** | | | | | |
| **## Author to Complete** | | **TENDERER TO COMPLETE** | | | |
| **##Pavement layer** | **##Principals Nominated Pavement Type** | **Proposed Material** | **Proposed Pavement Rating\*** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| **Lower Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | DSA 1 | Crushed Concrete | 10 | Yes |  |
|  | DSA 2 | Crushed Concrete | 10 | Yes |  |
| **Subbase** | Pavement Type X1 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X2 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | Yes |  |
| **Upper Subbase** | DSA 1 | CT Crushed Rock | 0 | Yes |  |
|  | DSA 2 | CT Crushed Rock | 0 | Yes |  |
| **Basecourse** | Pavement Type X1 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X2 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | Yes |  |
|  | Pavement Type X4 | Crushed Concrete | 10 | Yes |  |
|  | DSA 1 | HMA | 0 | Yes |  |
|  | DSA 2 | HMA | 0 | Yes |  |
| **Intermediate Course 2** | DSA 1 | HMA | 0 | Yes |  |
|  | DSA 2 | HMA | 0 | Yes |  |
| **Intermediate Course 1** | DSA 2 | HMA | 0 | Yes |  |
| **Wearing Course** | DSA 1 | HMA | 0 | Yes |  |
|  | DSA 2 | HMA | 0 | Yes |  |
| **Sprayseal** | Pavement Type X1 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X2 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X3 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X4 | Sprayseal | 0 | Yes |  |

**SCHEDULE XX**

**SUSTAINABILITY ATTRIBUTES**

**(Page 1 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Clock Works

Signed: …P. Phillipis

The Tenderer is to advise the nature and extent of the proposed sustainable materials and sustainable technologies.

If the tender is subsequently accepted by the Principal, the use of the proposed sustainable materials and sustainable technologies shall be incorporated in the Works and shall conform to the requirements of the Contract.

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| --- | --- | --- | --- |
| **1. Other Sustainability Initiatives**  **This category includes materials used in the project other than that in the pavement layers. The tenderer is encouraged to investigate available opportunities and list them below. Examples include:**   * **glass cullet in drainage;** * **geopolymer concrete in suitable applications;** * **stormwater drainage pipes made from materials other than Portland cement concrete;** * **posts, tree guards, or retaining wall sleepers made from recycled plastic** * **the use of active reactors;** * **low voltage intersections;** * **LED lighting; and,** * **Operational renewable energy (e.g. solar panels and wind turbines).**   **This category does not include initiatives such as the following, because they are requirements in VicRoads contracts which are routinely delivered;**   * **Recycling of construction wastes (i.e. RAP or concrete);** * **Non Potable Water;** * **Reuse or Tree mulching; and,** * **LED Traffic Lighting.** | | | |
| **Item** | **Conformance to a VicRoads standard (Where Yes, state which VicRoads standard or where any other standard, state that standard)** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| ‘Green’ Street Lighting | Yes | No | $130,000 |
| Road Furniture made from Recycled Mateirals | Yes | Yes |  |
| Low Embodied Carbon Stormwater Piping | Yes | Yes |  |
| Manufactured Sand | Yes | Yes |  |
| Low Embodied Carbon Noise Walls | Yes | No | $75,000 |
| Thermally Activated Road Symbols | N/A | No | $180,000 |
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This initiative would not be valued as it has not been approved for use on VicRoads Road Network

**SCHEDULE xx**

**SUSTAINABILITY ATTRIBUTES**

**(Page 2 of 2)**

***[To be submitted with Tender]***

Contract No.: VR1234

Name of Tenderer: Clock Works

Signed: P. Phillips

Any proposed material MUST conform to the relevant VicRoads specification. For example materials with RAP levels exceeding the allowance in the relevant specification will not be considered. It is appreciated that the tender will not have selected a supply source, however, the table below will allow a commitment to the level of sustainability of the pavement material through completing the ‘Proposed Pavement Rating’ column.

This would include crushed concrete, asphalt with RAP, glass cullet and/or warm mix asphalt

\* VicRoads evaluates its pavement sustainability. Additional Information available through the construction material manufacturers as part of the VicRoads registered design mix process.

In order to maximise the value of their tender, tenderers are encouraged to either preferably to engage with the material suppliers or if this is not possible to nominate pavements form the guidance table below.

|  |  |  |
| --- | --- | --- |
| Warm Mix Asphalt | Recycled Content\* | Rating |
| No | <20% of allowable recycled content | 0 |
| Yes | <20% of allowable recycled content | 2 |
| No | 20 to 70% of allowable recycled content | 5 |
| Yes | 20 to 70% of allowable recycled content | 7 |
| No | >70% of allowable recycled content | 10 |
| Yes | >70% of allowable recycled content | 12 |

\* Mixes which elect to utilise additional levels of RAP whose tender response has integrated the additional testing requirements as per Hot Mix Specification section 407.09 (c), will receive an additional 2 rating points for the pavement types and layers as nominated in this schedule.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **3. Proposed Pavement Layer Materials including Recycled Materials** | | | | | |
| **## Author to Complete** | | **TENDERER TO COMPLETE** | | | |
| **##Pavement layer** | **##Principals Nominated Pavement Type** | **Proposed Material** | **Proposed Pavement Rating\*** | **Included in Contract Sum (Yes/No)** | **Adjustment to Contract Sum if accepted** |
| **Lower Subbase** | Pavement Type X1 | Crushed Concrete | 10 | No | $3,000 |
|  | Pavement Type X2 | Crushed Concrete | 10 | No | $1,000 |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | $2,000 |
|  | DSA 1 | Crushed Concrete | 10 | No | $2,000 |
|  | DSA 2 | Crushed Concrete | 10 | No | $1,000 |
| **Subbase** | Pavement Type X1 | Crushed Concrete | 10 | No | $10,000 |
|  | Pavement Type X2 | Crushed Concrete | 10 | No | $1,000 |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | $1,000 |
|  | Pavement Type X4 | Crushed Concrete | 10 | No | $1,500 |
| **Upper Subbase** | DSA 1 | CT Crushed Concrete | 10 | Yes |  |
|  | DSA 2 | CT Crushed Concrete | 10 | Yes |  |
| **Basecourse** | Pavement Type X1 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X2 | C1 Crushed Rock | 0 | Yes |  |
|  | Pavement Type X3 | Crushed Concrete | 10 | No | $1,000 |
|  | Pavement Type X4 | Crushed Concrete | 10 | No | $1,000 |
|  | DSA 1 | WMA + RAP | 12 | No | $2,500 |
|  | DSA 2 | WMA + RAP | 12 | No | $4,400 |
| **Intermediate Course 2** | DSA 1 | WMA + RAP | 12 | No | $1,800 |
|  | DSA 2 | WMA + RAP | 12 | No | $1,300 |
| **Intermediate Course 1** | DSA 2 | WMA + RAP | 12 | No | $1,200 |
| **Wearing Course** | DSA 1 | WMA | 2 | Yes |  |
|  | DSA 2 | WMA | 2 | Yes |  |
| **Sprayseal** | Pavement Type X1 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X2 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X3 | Sprayseal | 0 | Yes |  |
|  | Pavement Type X4 | Sprayseal | 0 | Yes |  |