**SCHEDULE C – FORM OF PROPOSAL**

**RFP Project Title: SUPPLY, DELIVERY AND INSTALLATION OF ARTIFICIAL TURF FIELDS: HJORTH, CAP, SSAP, and NAP**

**RFP Reference No.: 1220-030-2021-013**

**Legal Name of Proponent:**

**Contact Person and Title:**

**Business Address:**

**Telephone:**

**Fax:**

**E-Mail Address:**

TO:

City Representative: Richard D. Oppelt, Manager, Procurement Services

Address: Surrey City Hall

 Finance & Technology Department – Purchasing Section

 Reception Counter, 5th Floor West

 13450 – 104 Avenue, Surrey, B.C. V3T 1V8, CANADA

Email for PDF Files: purchasing@surrey.ca

Dear Sir:

1. I/We, the undersigned duly authorized representative of the Proponent, having received and carefully reviewed all of the Proposal documents, including the RFP and any issued addenda posted on the City Website and BC Bid Website, and having full knowledge of the Goods and Services required, and having fully informed ourselves as to the intent, difficulties, facilities and local conditions attendant to performing the Goods and Services, submit this Proposal in response to the RFP.
2. **I/We confirm** having full knowledge that the City reserves the right to divide up the Goods and Services by type of work, or other basis as the City may decide, and to select one or more Preferred Proponents to enter into discussions with the City for one or more agreements to perform a portion or portions of the Goods and Services.

**3.0 I/We confirm** that the following schedules are attached to and form a part of this Proposal:

Schedule C-1 – Statement of Departures;

Schedule C-2 – Proponent’s Experience, Reputation and Resources;

Schedule C-3 –Proponent’s Technical Proposal (Services);

Schedule C-4 – Proponent's Technical Proposal (Time Schedule); and

Schedule C-5 – Proponent’s Financial Proposal.

**4.0 I/We confirm** that this proposal is accurate and true to best of my/our knowledge.

**5.0** I/We confirm that, if I/we am/are awarded the agreement, I/we will at all times be the “prime contractor” as provided by the Worker's Compensation Act (British Columbia) with respect to the Goods and Services. I/we further confirm that if I/we become aware that another contractor at the place(s) of the Goods and Services has been designated as the “prime contractor”, I/we will notify the City immediately, and I/we will indemnify and hold the City harmless against any claims, demands, losses, damages, costs, liabilities or expenses suffered by the City in connection with any failure to so notify the City.

**This Proposal** is submitted by this **\_\_\_\_\_** day of **\_\_\_\_\_\_\_\_\_\_**, 2021.

**I/We have the authority to bind the Proponent.**

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Legal Name of Proponent)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Signature of Authorized Signatory)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Print Name and Position of Authorized Signatory) | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Signature of Authorized Signatory)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Print Name and Position of Authorized Signatory) |

**SCHEDULE C-1 - STATEMENT OF DEPARTURES**

**1.** I/We have reviewed the proposed agreement attached to the RFP as Schedule “B”. If requested by the City, I/we would be prepared to enter into that agreement, amended by the following departures (list, if any):

**Section Requested Departure(s) / Alternative(s)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** The City of Surrey requires that the successful Proponent have the following in place **before commencing the Services**:

a) Workers’ Compensation Board coverage in good standing and further, if an “Owner Operator” is involved, personal operator protection (P.O.P.) will be provided,

Workers' Compensation Registration Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

b) Prime Contractor qualified coordinator is Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Contact Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

c) Insurance coverage for the amounts required in the proposed agreement as a minimum, naming the City as additional insured and generally in compliance with the City’s sample insurance certificate form available on the City’s Website [Standard Certificate of Insurance](http://www.surrey.ca/files/Standard_Certificate_of_Insurance%28New_Web%29.docx);

d) City of Surrey business license;

e) If the Proponent's Goods and Services are subject to GST, the Proponent's GST Number is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; and

f) If the Proponent is a company, the company name indicated above is registered with the Registrar of Companies in the Province of British Columbia, Canada, Incorporation Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

As of the date of this Proposal, we advise that we have the ability to meet all of the above requirements **except as follows** (list, if any):

**Section Requested Departure(s) / Alternative(s)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** I/We offer the following alternates to improve the Services described in the RFP (list, if any):

**Section Requested Departure(s) / Alternative(s)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** The Proponent acknowledges that the departures it has requested in Sections 1, 2 and 3 of this Schedule C‑1 will not form part of the agreement unless and until the City agrees to them in writing by initialling or otherwise specifically consenting in writing to be bound by any of them.

**- end of page -**

**SCHEDULE C-2 - PROPONENT’S EXPERIENCE, REPUTATION AND RESOURCES**

The Corporate Performance Proposal shall apply to all/any of the different synthetic turf Products for which the Proponent submits financial and technical proposals.

Proponents should provide the following information with respect to their corporate performance relating to the supply and installation of synthetic turf fields. This information will be used to evaluate the Proponent’s past performance and ability to deliver the work included in this RFP.

## C.2.1 Proponent’s Ability to Back the Warranty

Describe the manner in which the Proponent proposes to back the Warranty to be provided under the terms of this RFP. Indicate the approximate value of work (or sales, as applicable) completed by the Proponent for each of the past three years.

## C.2.2 Proponent’s History Relating to Synthetic Fields

Provide the Proponent’s history with particular reference to experience with the supply and installation of synthetic turf fields, including the total number of fields installed. A list of fields installed over the past ten years should also be provided.

Provide the details of the company responsible for recycling of the synthetic turf system (including fibre, backing and infill). Indicate how the recycled materials will be recycled and finally repurposed. Provide details of chain of custody controls and corporate recycling certifications.

## C.2.3 Proponent’s Installation Crew Qualifications

Provide a resume describing the qualifications for each installation crew member that will be assigned to the Project.

## C.2.4 Proponent’s Installation Crew’s Superintendent’s Qualifications

Provide a resume for the proposed superintendent of the installation crew giving details on qualifications and experience relating to the installation of synthetic turf fields including descriptions of synthetic turfs installed. Provide names and telephone numbers of references for the proposed superintendent.

## C.2.5 Proponent’s Installation Performance Record

Provide the following information for the Proponent’s past five installations (minimum):

* Location
* Type and size of installation (turf product)
* Date of installation
* Owner
* Purpose / use of fields
* Contact name for owner / operator with telephone number

Proponents should provide at least three project references for each different turf product for which a Proposal is submitted. Provide the details of any outstanding unresolved construction claims or any active legal action(s) filed against the Proponent related to past or current synthetic field installations.

## C.2.6 Number of Installation Crews

Provide the Proponent’s number of installation crews that will be made available to the City and identify their availability for this Project. Describe the resources the Proponent will apply to allow turf installation to meet the Project schedule.

Provide the name of each crew member, an overview of their experience and their normal base of operations (i.e. Corporation, Province/State).

## C.2.7 Proponent’s Post-Installation Support

Describe the post-installation support which will be provided. Provide the details of any permanent local post-installation support personnel.

Provide details of the company’s typical response time for follow-up service calls including the location of the nearest service centre to the Project. Indicate whether the City would incur travel expenses for out-of-warranty service requests. Provide the hourly cost for out-of-warranty work, indicating whether travel time and lodging costs will be charged. Provide a base estimate for out-of-warranty turf repair work assuming an eight hour repair and current travel/lodging/other costs.

## C.2.8 Proponent’s Production Capabilities

Describe the Proponent’s production capabilities and their ability to meet the Project schedule.

## C.2.9 Proponent’s Civil Construction Experience

Describe the Proponent’s (or their civil subcontractor) experience with the fine grading and construction of permeable aggregate base for synthetic turf.

## C.2.10 Turf and Infill Removal and Disposition

Describe the Proponent’s equipment and process for turf removal, separation and cleaning of the existing infill material to be re-used.

Describe how the existing turf will be recycled or repurposed.

**- end of page -**

**Schedule C-3 – PROPONENT’S TECHINCAL PROPOSAL (SERVICES);**

Separate Product Technical Proposals are required for each different Product for which the Proponent is submitting a Proposal. The Product Technical Proposal should also include two samples of each synthetic turf product proposed.

## C.3.1 Technical Product Data

For each synthetic turf product for which a price is provided in the Proposal Form and Schedule of Prices, the Proponent is to complete a technical product data sheet. A blank copy of the technical product data sheet is attached in Appendix C1.

## C.3.2 Basic Product Requirements

The following key minimum qualities have been identified as best meeting the needs of the City. Proponents are to include at least one product that meets the key requirements indicated below. Alternative turf products may be submitted for consideration, if desired.

* Infilled synthetic turf with crumb rubber and silica sand infill;
* Synthetic grass fibre height minimum of 60 mm (2.4 inches);
* Infill depth of 45 mm (1.75 inches), based on the final, settled-in depth;
* Infill composition (by volume) consisting of crumb rubber (from truck tires) and a minimum of 20% silica sand;
* Product and quality control test criteria meeting or exceeding FIFA Quality programme standards;
* Rolls are to be sewn together, not glued (except for inlaid lines and markings).

Please refer to the Performance Specifications for a full description.

## C.3.3 Seam and Inlaid Line Details

Describe the seaming and inlaid line joining and construction details including:

* Turf roll joining method (seams sewn, cemented, etc.).
* Width of seam overlap.
* Inlaid line joining method.

## C.3.4 Operation and Maintenance Procedures

* Describe the general operations and maintenance procedures for each turf type included in the Proposal.
* Identify any special operations and maintenance equipment required.

##

## C.3.5 Sport Association Accreditation

Proponents are to submit documentation for each type of turf indicating any association accreditation for any specific sports activities (such as FIFA, WR, etc.). The documentation is to provide the name of the association, the exact name and description of the turf for which accreditation has been obtained and an association contact name, address and telephone number to permit verification.

## C.3.6 Patent Infringement Concerns

Proponents are to submit documentation confirming that their turf product does not infringe any existing or pending Canadian patent. Provide the details of any outstanding unresolved patent infringement claims or any active legal action(s) filed against the Proponent or against the owner of a past or current synthetic field installation supplied or installed by the Proponent. Provide the details (where legally permitted to do so) of the outcome of any resolved past patent infringement claims.

## C.3.7 Warranty

* Confirm that the eight (8) year Warranty with the terms and conditions exactly as specified in the RFP will be provided.
* Indicate if the Proponent has any outstanding warranty claims that have not been resolved to the satisfaction of the field owner.
* Provide details of any additional Warranty benefits offered (ie. extended Warranty duration, etc.).

## C.3.8 Acceptance of Base Design

Proponents must provide confirmation that they will accept the base design (see below) for the synthetic turf(s) for which a Proposal is being submitted and that they will be prepared to certify the turf(s) installation providing the base is provided in accordance with the design described in this RFP. The base is considered to be all base materials and drainage under the synthetic turf surfacing. A description of the field aggregate base design follows:

* 50 mm of permeable aggregate, over:
* 200 mm of permeable base course aggregate, over:
* Compacted, non-organic subgrade, with:
* Perforated subsurface drains at 4.5 m spacing.

## C.3.10 Turf Product Samples

The City prefers the following samples for each synthetic turf product for which a price is proposed in the Proposal.

Two sets of:

* Synthetic Turf  - 150 mm by 150 mm unfilled square of each type of synthetic turf proposed.

One set of:

* Drainage/Shock Pad– 300 mm by 300 mm square of each type of pad proposed. Shock pad samples are not required for the pre-approved products.

**C3.11 Environmental Concerns and Opportunities**

Confirm the existing synthetic turf system (synthetic turf fibre, backing, infill, adhesives, and all other components) will be recycled as much as facilities exist to do so. Provide specific locations where each type of material will be taken and disposed of.

Confirm the proposed synthetic turf system (synthetic turf fibre, backing, infill, adhesives and all other components) meets all current Canadian environmental regulations (for public sports field/playground use) with respect to contaminants such as lead and other hazardous materials, in accordance with the Performance Specifications. Confirm that the synthetic turf system will continue to meet all current Canadian environmental regulations upon installation and throughout the life of the Warranty.

Provide details of any environmentally sustainable or ‘green’ features of the turf system including recycled content, alternate infill material(s) proposed, recyclability of turf system when replaced in future, heavy metal content of fibre, and other relevant information.

## C.3.12 Value-Added Elements

Describe in detail any value-added elements that will provide additional benefits or value to the Owner. Proponents should also describe in this section any potential cost saving measures that might be possible through alternative design standards or Specification modifications.

## C.3.13 Technical Data Sheets

Complete the Technical Data Sheets on the following pages for each product proposed.

**- end of page -**

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 1)**

Provide the following information for each Synthetic turf system proposed in the RFP.

Product Name:

Proponent Name:

Product Construction (Check as applicable): **PRODUCT MUST BE MONOFILAMENT**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Monofilament |  |  |
|  | Tufted |  | Knitted |
|  | Secondary Thatch Layer |

Property Minimum Spec. Units ASTM

Pile Yarn Composition

Minimum Yarn Denier D1577

Maximum Yarn Denier D1577

Yarn Breaking Strength gms./denier D2256

Yarn Melting Point degrees F D789

Minimum Pile Height inches D5823-13

Maximum Pile Height inches D5823-13

Yarn Ends per Stitch D584810e1

Pile Weight oz./sq. yd D584810e1

Primary Backing Wt oz./sq. yd D584810e1

Secondary Backing Wt oz./sq. yd D584810e1

Total Weight oz./sq. yd D584810e1

Tuft or Stitch Spacing per inch D5793

Gauge per inch D5793

Tuft Bind (without infill) lbs. D1335

Grab Tear Strength lbs. D5034-09

Roll Width (15) ft.

Impact Attenuation (max):

At Installation Gmax D355

At 12 months Gmax D355

At 24 months Gmax D355

At 48months Gmax D355

At 60 months Gmax D355

At 84 months Gmax D355

At 96 months (165) Gmax D355

Pill Burn Test (Pass) D2859

Drainage Rate (including infill) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mm/hr

Heavy Metal Content of System (attach material safety data sheets)

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 2)**

Infill Material

Indicate the technical specifications and detailed description of the components comprising the infill material of the synthetic turf system. Attach a separate specification sheet(s) where the proposed infill is a material other than recycled crumb rubber or recycled crumb rubber/silica sand blend.

Total Depth of Infill Material inches (minimum)

Minimum Number of Infill Material Applications

Maximum Depth of Infill Material per Application inches

Type of Infill\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| Infill Material – Check one: |
|  |  | Crumb Rubber/Silica Sand Blend |
|  |  | \_\_\_% Sand by volume **Note min 20% Sand Required** |
|  |  | \_\_\_% Rubber by volume  |
|  |  | Other (Describe/attach specifications) |

For Crumb Rubber and Rubber/Sand Infills (Check as applicable):

|  |  |
| --- | --- |
|  | Ambient Ground Rubber |
|  | Cryogenic Ground Rubber |
|  | Recycled Truck Tires (check if applicable) |
|  |  |

Crumb Rubber Supplier (Company name/address) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Crumb Rubber Particle Size Distribution (complete or attach sieve analysis)

|  |  |  |  |
| --- | --- | --- | --- |
|  mm |  mm |  %  |  %  |
|  mm  |  mm  |  %  |  %  |
|  mm  |  mm |  %  |  %  |
|  mm  |  mm |  %  |  %  |

The sand gradation (wet sieve analysis):

|  |  |  |  |
| --- | --- | --- | --- |
| Sieve Size | % Passing (max – min) | Sieve Size | % Passing (max – min) |
| #8 |  | #40 |  |
| #16 |  | #50 |  |
| #20 |  | #100 |  |
| #30 |  |  |  |

Sand Description (Silica, ceramic-coated silica, etc.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_% minimum rounded, compaction resistant, washed and dried

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 3)**

**Proposed product is to perform to the minimum testing requirements equivalent to FIFA Quality Pro, with the exception of Simulated Wear criteria which is to conform to Lisport XL 6,000 cycles. FIFA Certification is not required.** Supplier to provide 3rd party support documentation outlining Technical Data results for ‘FIFA Quality Pro’ Performance Standards for ‘FIFA Quality Pro’ designation in accordance with FIFA Quality Programme for Football Turf October 2015 Edition of the Handbook Requirements Version 3.1 (16.03.2020), and Handbook of Test Methods – Version 3.1 (16.03.2020).

| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | **Results** |
| --- | --- | --- | --- | --- | --- |
| Preparation | T◦C | Cond. |
| Vertical ball rebound | FIFA 01&FIFA 15 | Pre-Cond. | 23◦ | Dry | 0.60 – 0.85m | 0.60 – 1.0m |  |
| Wet |  |
| Sim. Wear 3,000 cycles |  | 0.60 – 0.85m | NA |  |
| Sim. Wear 6,000 cyc. | NA | 0.60 – 1.0m  |  |
| Angle ball rebound | FIFA 02 | Pre-cond. | 23◦ | Dry | 45 - 60% | 45 - 70% |  |
| Wet | 45 - 80% |  |
| Reduced Ball Roll | FIFA 17&FIFA 15 | Pre-Cond. | 23 | Dry | 4 – 8m | 4 – 10 m |  |
| Sim. Wear 3,000 cycles | Dry | 4 – 8m | NA |  |
| Wet | 4 – 8m | NA |  |
| Sim. Wear 6,000 cycles | Dry | NA | 4 – 12 m |  |
| Wet | NA | 4 – 12 m |  |

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 4)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | Results |
| Preparation | T◦C | Cond. |
| Shock absorption | FIFA 04 a&FIFA 15 | Pre-cond. | 23◦ | Dry | 62 - 68% | 57 -68% |  |
| Wet |  |
| Sim. Wear 3,000 cycles | Dry | 62 - 68% | NA |  |
| Sim. Wear 6,000 cyc. | NA | 57 -68% |  |
| Pre-cond. | 50 | Dry | 62 - 68% | 57 -68% |  |
| FIFA04a1st impact | - | -5◦ | Frozen | 62 - 68% | 57 -68% |  |
| Vertical deformation | FIFA 05a&FIFA 15 | Pre-cond. | 23◦ | Dry | 4 – 10 mm | 4 – 11 mm |  |
| Pre-cond. | Wet |  |
| Sim. Wear 3,000 cycles | Dry | 4 – 10 mm | NA |  |
| Sim. Wear 6,000 cycles. | NA | 4 – 11 mm  |  |
| Pre-cond. | 50 | Dry | 4 – 10 mm | 4 – 11 mm |  |
| FIFA 05a 1st Impact |  | -5 | Frozen | 4 – 10 mm | 4 – 11 mm |  |

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 5)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | Test Method | Test Conditions | FIFA Quality Pro Req’s | FIFA Quality Req’s | Results |
| Preparation | T◦C | Cond. |
| Rotational resistance | FIFA 06 or 6a&FIFA 15 | Pre-cond. | 23◦ | Dry | 32 – 43Nm | 27 – 48Nm |  |
| Wet |  |
| Sim. Wear 3,000 cycles | Dry | 32 – 43Nm | NA |  |
| Sim. Wear 6,000 cycles | NA | 27 – 48Nm |  |
| Skin/Surface Friction | FIFA 08 | Pre-cond. | 23 | Dry | 0.35 – 0.75 | 0.35 – 0.75 |  |
| Skin/Surface Friction | FIFA 08 | Sim. Wear 3,000 cycles | 23 | Dry | 0.35 – 0.75 |  |  |
| Skin/Surface Friction | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry |  | 0.35 – 0.75 |  |
| Skin Abrasion | FIFA 08 | Pre-cond. | 23 | Dry | +/- 30% | +/- 30% |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 3,000 cycles | 23 | Dry | +/- 30% |  |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry |  | +/- 30% |  |
| Skin Abrasion | FIFA 08 | Sim. Wear 6,000 cycles | 23 | Dry | 0.35 – 0.75 | 0.35 – 0.75 |  |
| Heat Determination | FIFA 14 | Pre-cond. | NA | Dry | For information | Optional Information |  |
| Infill Splash | FIFA 16 | Pre-cond. | 23 | Dry | Note <1.5% or ≥ 1.5% | NA |  |

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 6)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Property** | **Test Method** | **Requirement** | **Result** |
| Artificial Weathering FIFA 10 |
| Artificial Turf(all colours) | Colour Change | EN ISO 20105-A02 | > Grey Scale 3 |  |
| Pile Yarn (all colours) | Peak Breakage Force | EN 13864 | % Change from green unaged to be no more than 25% |  |
| Polymeric Infill | Colour Change | EN ISO 20105-A02 | > Grey Scale 3, no change in shape |  |
| Joint Strength: stitched seams | Joint Strength - unaged | EN 12228 Method 1 | 1000N/100 mm |  |
| Joint Strength – immersion in hot water  | 13744 & EN 12228 Method 1 |
| Joint Strength: bonded seams | Joint Strength - unaged | EN 12228 Method 2 | 75N/100 mm |  |
| Joint Strength – immersion in hot water  | 13744 & EN 12228 Method 2 |
| **Property** | **Test Method** | **Condition** | **FIFA Quality Pro Req’s** | **FIFA Quality Req’s** | **Result** |
| Tuft Withdrawal | ISO 4919 | Unaged | ≥ 40N | ≥ 40N |  |
| Tuft Withdrawal | EN 13744 & ISO 4919 | Immersion in hot water | ≥ 40N | ≥ 40N |  |
| Tensile Strength of shock pads and elayer (as applicable) | EN 12230 | Unaged | ≥ 0.15 MPa | ≥ 0.15 MPa |  |
| Water permeability | FIA 24 | Unaged | ≥ 180 mm/hr | ≥ 180 mm/hr |  |

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 7)**

| Property | Test Method | Test Conditions | Two Star Req’s | One Star Req’s | **Results** |
| --- | --- | --- | --- | --- | --- |
| Preparation | T◦C | Cond. |
| Vertical ball rebound | FIFA 01&FIFA 09 | Pre-Cond. | 23◦ | Dry | 0.60 – 0.85m | 0.60 – 1.0m |  |
| Wet |  |
| Sim. Wear 5,200 cycles |  | 0.60 – 0.85m | NA |  |
| Sim. Wear 20,200 cyc. | NA | 0.60 – 1.0m  |  |
| Angle ball rebound | FIFA 02 | Pre-cond. | 23◦ | Dry | 45 - 60% | 45 - 70% |  |
| Wet | 45 - 80% |  |
| Ball Roll | FIFA 03 | Pre-cond. | 23◦ | Dry | 4 – 8m | 4 – 10m |  |
| Wet |  |
| Shock absorption | FIFA 04a&FIFA 09 | Pre-cond. | 23◦ | Dry | 60 - 70% | 55 - 70% |  |
| Wet |  |
| Sim. Wear 5,200 cycles | Dry | 60 - 70% | NA |  |
| Sim. Wear 20,200 cyc. | NA | 55 - 70% |  |
| Pre-cond. | 40◦ | Dry | 60 - 70% | 55- 70% |  |
| FIFA04a1st impact | - | -5◦ | Frozen | 60 - 70% | 55- 70% |  |

**APPENDIX C3-1-TECHNICAL PRODUCT DATA SHEET (Page 8)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Property | Test Method | Test Conditions | Two Star Req’s | One Star Req’s | Results |
| Preparation | T◦C | Cond. |
| Vertical deformation | FIFA 05a&FIFA 09 | Pre-cond. | 23◦ | Dry | 4 – 10mm | 4 – 11mm |  |
| Pre-cond. | Wet |  |
| Sim. Wear 5,200 cycles | Dry | 4 – 10mm | NA |  |
| Sim. Wear 20,200 cyc. | NA | 4 – 11mm  |  |
| Rotational resistance | FIFA 06&FIFA 09 | Pre-cond. | 23◦ | Dry | 30 – 45Nm | 25 – 50Nm |  |
| Wet |  |
| Sim. Wear 5,200 cycles | Dry | 30 – 45Nm | NA |  |
| Sim. Wear 20,200 cyc. | NA | 25 – 50Nm  |  |
| Linear friction – Stud Decel. Value | FIFA 07 | Pre-cond. | 23◦ | Dry | 3.0 – 5.5g | 3.0 – 6.0g |  |
| Wet |  |
| Linear friction – Stud Slide Value | Pre-cond. | 23◦ | Dry | 130 - 210 | 120 - 220 |  |
| Wet |  |
| Skin / surface friction | FIFA 08 | Pre-cond. | 23◦ | Dry | 0.35 – 0.75 |  |
| Skin abrasion | FIFA 08 | Pre-cond. | 23◦ | Dry | ±30% |  |

**SCHEDULE C-4 - PROPONENT’S TECHNICAL PROPOSAL (TIME SCHEDULE)**

The City requires the synthetic turf to be installed as follows for the following sites:

Award of Contracts to Preferred Proponents March 9, 2021

**Hjorth Road Park – Turf Replacement**

Project Start March 29, 2021

Complete Turf, Infill & Pad Install: April 23, 2021

**Cloverdale Athletic Park Field #3 – Turf Replacement**

Project Start May 3, 2021

Complete Turf, Infill & Pad Install: May 28, 2021

**South Surrey Athletic Park Field #8**

*Timing and schedule for expected ‘Ready for Turf’ date to be confirmed in conjunction with final design coordination in Spring 2021*

Project Start Expected Fall 2021

Complete Turf, Infill & Pad Install: 4 week duration

**Newton Athletic Park Field #5**

*Timing and schedule for expected ‘Ready for Turf’ date to be confirmed in conjunction with final design coordination in Spring 2021*

Project Start Expected Fall 2021

Complete Turf, Infill & Pad Install: 4 week duration

Proponents should provide a preliminary Time Schedule for the Goods and Services, including the range of start dates to which your firm is prepared to commit and anticipated completion dates. This Time Schedule should work within the timeframes as may be outlined by the City. Any conflict in the two should be described. The Time Schedule should include a list of all anticipated meetings with the City and their locations.

The City prefers the preliminary schedule to be provided as a Microsoft Project Gantt chart both in paper and electronically.

Indicate the proposed schedule (in weeks) for the new synthetic turf installation including the proposed sequencing and duration of the turf system manufacture and delivery. Confirm whether the key dates indicated in the RFP can be achieved.

Include a list of all assumptions used in developing the Time Schedule for the Goods and Services as presented in Schedule A – Specifications of Goods and Scope of Services, but not limited to the following:

* Project Meetings
* Design Milestones
* Construction/Installation Milestones
* Equipment and Material Procurement
* Training and Demonstration Periods
* Final Completion of the Goods and Services

The schedule included may be on 11”x17” size sheets.

**SCHEDULE C-5 - PROPONENT’S FINANCIAL PROPOSAL**

Separate Financial Proposals are required for each different Product for which the Proponent is submitting a Proposal.

The Proponent offers to supply to the City of Surrey the Goods and Services for the prices plus applicable taxes as indicated below and on the attached pages. Prices are in Canadian Funds.

We hereby declare that we have carefully examined the site of the project, have read and examined the RFP package including the supporting Specifications and Project Drawings, and hereby offer to furnish all plant, labour, materials, technical and professional services necessary to supply and install the synthetic turf surface, in accordance with all the provisions stated in the RFP documents, for the following stipulated price:

**A. HJORTH ROAD PARK – Turf Replacement**

Synthetic Turf Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shock Pad Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Base Bid:**

A.1 - Remove & Recycle Existing Turf: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.2 - Remove & Dispose Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.3 – Civil - Inspect, Test and Regrade Base Aggregates: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.4 – Civil - Dispose of Excess Gravel Offsite: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.5 - Supply and Install Shock Pad: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.6 - Supply and Install Synthetic Turf (includes Lines/Markings): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.7 - Supply and Install New CRI Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A.8 – Testing, as per Specifications: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Subtotal: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Goods and Services Tax (GST) 5%: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Guaranteed Maximum Price $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Optional Pricing:**

A.9 – Rubber Infill Re-Use and supplement with new infill: ($\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

*Note: Credit for Optional Pricing would be applied to Base Bid Price*

(Note that a separate executed Proposal Form, Product Data Sheet, Product Installation/Reference Sheet and Turf Samples are to be completed for each synthetic turf system for which the Proponent submits a Proposal.)

**B. CLOVERDALE ATHLETIC PARK – Field #3 Turf Replacement**

Synthetic Turf Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shock Pad Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Base Bid:**

B.1 - Remove & Recycle Existing Turf: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.2 - Remove & Dispose Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.3 – Civil - Inspect, Test and Regrade Base Aggregates: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.4 – Civil - Dispose of Excess Gravel Offsite: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.5 - Supply and Install Shock Pad: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.6 - Supply and Install Synthetic Turf (includes Lines/Markings): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.7 - Supply and Install New CRI Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.8 – Testing, as per Specifications: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Subtotal: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Goods and Services Tax (GST) 5%: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Guaranteed Maximum Price $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Optional Pricing:**

B.9 – Rubber Infill Re-Use and supplement with new infill: ($\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

*Note: Credit for Optional Pricing would be applied to Base Bid Price*

(Note that a separate executed Proposal Form, Product Data Sheet, Product Installation/Reference Sheet and Turf Samples are to be completed for each synthetic turf system for which the Proponent submits a Proposal.)

**C. SOUTH SURREY ATHLETIC PARK – Field #8**

Synthetic Turf Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shock Pad Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Base Bid:**

C.1 - Supply and Install Shock Pad: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C.2 - Supply and Install Synthetic Turf (includes Lines/Markings): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C.3 - Supply and Install CRI Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C.4 – Testing, as per Specifications: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Subtotal: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Goods and Services Tax (GST) 5%: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Guaranteed Maximum Price $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Optional Pricing:**

C.5 – Supply and Install New TPE Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*\*Note: Value of Item C.5 represents Deletion of Item C.3 and replace with value of Item C.5. Proponent to complete Technical Data Sheet for proposed TPE Infill.*

(Note that a separate executed Proposal Form, Product Data Sheet, Product Installation/Reference Sheet and Turf Samples are to be completed for each synthetic turf system for which the Proponent submits a Proposal.)

**D. NEWTON ATHLETIC PARK – Field #5**

Synthetic Turf Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shock Pad Product (Name):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Base Bid:**

D.1 - Supply and Install Shock Pad: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D.2 - Supply and Install Synthetic Turf (includes Lines/Markings): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D.3 - Supply and Install CRI Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D.4 – Testing, as per Specifications: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Subtotal: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Goods and Services Tax (GST) 5%: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Guaranteed Maximum Price $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Optional Pricing:**

D.5 – Supply and Install New TPE Infill: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*\*Note: Value of Item D.5 represents Deletion of Item D.3 and replace with value of Item D.5. Proponent to complete Technical Data Sheet for proposed TPE Infill.*

(Note that a separate executed Proposal Form, Product Data Sheet, Product

Installation/Reference Sheet and Turf Samples are to be completed for each synthetic turf system for which the Proponent submits a Proposal.)

**E. VALUE ADDED – MULTIPLE CONTRACT AWARD**

Should the City elect to award multiple field contracts to a single proponent, outline the value added savings the City may expect.

E.1 – Award of Two Fields: ($\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

E.2 – Award of Three Fields: ($\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

E.3 – Award of Four Fields: ($\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

Proponents are encouraged to outline on a separate page, any other value added considerations the City should consider in awarding multiple field contracts to a single Proponents.

**SCHEDULE C-5 - PROPONENT’S FINANCIAL PROPOSAL**

Out of Warranty Work

Provide a base price for out-of-warranty turf repair work assuming an eight hour repair (one day), travel, lodging, meals and any other costs that would be incurred by the City. Actual costs would be adjusted allowing for inflation (based on prevailing inflation rate in British Columbia), and the actual difference. The cost of any additional work not indicated below should be pro-rated across the other line items indicated. Where costs would be applicable, indicate ‘NC’.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Unit Rate | Unit | Quantity | Cost |
| Turf Repair Crew | $ | Per crew hour | 8 hours | $ |
| Superintendent | $ | Per hour | 8 hours | $ |
| Travel (all Crew Members & Superintendent) | LUMP SUM | $ |
| Lodging (Crew & Superintendent) | $ | Per night | 2 nights | $ |
| Meals – Crew/Superintendent | $ | Per day | 2 days | $ |
| Materials – Turf | $ | Per sq. m. | 20 sq. m. | $ |
| Materials – Infill, Glue | $ | Per sq. m. | 20 sq. m. | $ |

**Additional Expenses:**

The proposed Contract attached as Schedule "B" to the RFP provides that expenses are to be included within the fee, other than the expenses listed in the Contract as disbursements. Details of disbursements are to be shown in the chart above. Please indicate any expenses that would be payable in addition to the proposed fee and proposed disbursements set out above:

**Payment Terms:**

A cash discount of \_\_\_\_\_\_% will be allowed if account is paid within \_\_\_\_\_\_\_ days, or the \_\_\_\_\_\_\_\_\_ day of the month following, or net 30 days, on a best effort basis.