



REQUEST FOR PROPOSAL FOR OF THE MAIN PLAYING FIELD AND IRRIGATION SYSTEM

AT THE HASELY CRAWFORD STADIUM

(RFP ID # 007-PROJ- 005- 032024)

DESCRIPTION OF THE WORKS

3.3.1 GENERAL

The Tenderer shall be responsible for verifying and interpreting data made available by the Employer. Tenderers are directed to take their own measurements to ascertain the accuracy or thoroughness of the technical input information furnished by the Employer or its agents. Tenderers shall be solely liable for all aspects of their designs.

The Contractor shall procure all materials required, dispose of all materials removed, treat the field where necessary, deliver, supply and install all materials, equipment and tools necessary for the rehabilitation of the field and installation of the irrigation system.

The overall works are;

- a) Preliminary works - inclusive of transportation of labour, materials, plants, provision of general insurances, site storage, protection of the works, water for the works, tools and vehicles where and if necessary to successfully execute the scope of works at the site. Site preparation to facilitate execution of the required works.
- b) Provision of concept design drawings showing the irrigation design and the intended directions of run-off and slope of the finished field showing the depths/levels at which irrigation and drainage piping should be installed.
- c) Once awarded, provision of construction and as-built drawings showing the new irrigation piping and existing underground drainage piping.
- d) Procurement of equipment and materials for execution of the works. Product Data Sheets and Material Safety Data Sheets must be provided, where required.
- e) Checking the field drainage before excavation works. (Drainage piping must maintain a minimum positive slope gradient of greater than or equal to 0.5% towards drainage outlets)
- f) Surveying and staking the site to establish elevations of the subgrade, levels at which drainage piping must be positioned, levels of the finished field. Liaison with the Track Installer for the finished height to be achieved by the field contractor.



- g) Removal and disposal of the existing grassy areas, sub-soil and sand to the required depth. Installation of Automatic Pop-Up Irrigation System as per 3.3.3 and Replacement with all new materials as per 3.3.2 Field Rehabilitation.
- h) Protection of the existing athletic track surfaces and curbs from damage by excavation or transport equipment.
- i) Line marking in accordance with FIFA Laws of the Game 2023/2024 - Attachment D.
- j) Installation of new football goal posts, in-ground sleeves and nets meeting FIFA Laws of the Game 2023/2024 (Attachment D) and FIFA Quality Programme for Football Goals Test Manual (Attachment E)
- k) User Training

3.3.2 FIELD REHABILITATION

- a) Excavation of the field to a depth in order to strip and remove all grass, weeds and organic matter of the growing medium. Ensure the use of a surveyor to provide accuracy and consistency of the target depth.
- b) Disposal of old grass, weeds and organic matter.
- c) Spraying of weedicide to ensure all seeds, and remaining weeds are terminated. Product Data Sheets and Material Safety Data Sheets are required submittals.
- d) Inspect the functionality of the field drainage system within and surrounding the field. Ensure that proper runoff is achievable and that the piping is intact. Repairs required must be performed before proceeding, if necessary.
- e) Installation of the irrigation system (refer to 3.3.3).
- f) Procurement, delivery and laying of silica sand*. Levelled and compacted to the correct levels using a laser level to achieve 1% grading towards sides/field drains. *Silica Sand Requirements (Reference document: ASTM F2396-11 (2019) Section 5.5.2) ATTACHMENT A, contain more than 95% silica sand and mainly 0.125 –0.6mm diameter.
- g) Provision of manufacturers certificates and independent test certificates for the sand showing composition and sieve size. Sand must meet the requirements of ASTM F2396-11 (2019) Section 5.5.2. Frequency of independent testing is shown in Section 3.3.
- h) Levelling of the sand using a laser level. The contractor must ensure a gradient of no greater than 1.0% sloping towards the sides/field drains.



- i) Incorporation of soil ameliorants for optimum grass growth including rot ovation. Product Data Sheets and Material Safety Data Sheets are required submittals.
 - j) Final laser grade of field to design slope, 1% grading to grant proper drainage of the field (as per approved construction drawings).
 - k) Meeting the Specifications for the required level and grade as per the World Athletics - Track and Field Facilities Manual (2019) - Section 2.4 Facilities for Throwing Events & Section 2.5 Layout of “Standard Competition Area”. Refer to Drawing 1 Layout of Track & Field Activities ATTACHMENT B.
- *Please note that some coordination is required with the track installer.
- l) The contractor is responsible for the supply and plugging of the compacted field to establish the new turf. Sprigging may be done using suitable Bermuda grass (*Cynodon dactylon* species) or zoysia species (mainly *Zoysia japonica* and *Zoysia matrella*).
 - m) Sizing of sprigs, spacing between sprigs and depth are provided in Section 6.6 of FIFA Natural Turf Guidelines (January 2023) ATTACHMENT C.
 - n) Sprigs must be weed-free, uniformly mature turf-grass, measure in the region of 75-125mm in length, and feature at least two (and usually three or more) nodes.
 - o) Harvesting and planting operations should be coordinated so as to prevent the sprigs from being exposed to excessive heat or suffering from desiccation prior to covering. Sprigs should ideally be planted within 24 hours of harvest. Commercially supplied sprigs should preferably be harvested and delivered on the same day.
 - p) Row planting typically sees the sprigs placed at least 50mm apart. A suggested sprigging rate is 200-250 sprigs per m².
 - q) Carrying out all required practice to ensure the successful establishment of grass sprigs, inclusive of irrigating, fertilizing, weed control and mowing for 3 months. Care must be taken to ensure that any turf installed around pitch infrastructure, e.g. irrigation heads, is even.
 - r) Re-painting of football field markings in accordance with the FIFA Laws of the Game 2023/2024, Section 1 The Field of Play (Attachment D) and clean-up where necessary.
 - s) Disposal of any other matter where necessary.

3.3.3 FIELD IRRIGATION

- a) The field irrigation system required is “in-ground” and automated with nearly all components located below ground with the exception of the control interface. The pop-up



sprinklers will be automated to provide the correct amount of water in the sequence required to cover every area of the field and surrounding grass areas within the stadium.

An assessment of the adequacy of the water supply and pumps must be undertaken to ensure that the automatic field irrigation system is well supported. The flow rate range to be achieved as well as the water demands must be specified.

- b) Details such as Product Data Sheets should be provided for each component:
 - i. Pop-up Sprinkler Heads: Devices that spray water onto the field, suitable for sports field applications.
 - ii. Piping Systems: Networks of underground pipes that transport water from the source to the sprinklers. Size and rating is required.
 - iii. Controllers and Timers: Automated devices that schedule and control the watering process, ensuring optimal watering times and durations.
 - iv. Valves: Control the flow of water, allowing it to be directed to specific zones or sections of the field.
 - v. Pressure Regulators: Ensure consistent water pressure throughout the system, preventing issues like water hammer or uneven watering.
 - vi. Backflow Preventers: Devices that prevent any potential contamination of the water source, ensuring the water being sprayed is clean and safe.
 - vii. Filter Systems: Remove debris and contaminants from the water before it's sprayed onto the field.
 - viii. Zoning Systems: Segment the field into specific areas or zones, allowing for targeted watering based on the unique needs of each zone.
- c) Systems must be designed with sections catering for spray angles of 90°, 180° and 360°, with sprinklers able to be run separately and with individual timing to allow for even water coverage. Refer to FIFA Natural Turf Guidelines (January 2023) Section 4.4.
- d) Consideration should be given to the source of water and the rate of flow required. Existing on-site services such as water tanks, pumps and electrical supply panels are the responsibility of the Employer and will be identified by the Employer's Representatives. The Tenderer will assume responsibility from the 4" supply line for the field which runs from the moat under the track in a tunnel, this 4" supply line will be accessed from the hatch in the field.



- g) The field irrigation piping currently runs from the 4” line to two locations only on the North side of the field. There is no piping to the South side at present. Refer to HCS Field and Track Drawing – ATTACHMENT E for locations of existing valves.
- h) The control panel for the irrigation system must be enclosed in a vandal-proof, lockable cabinet to prevent the possibility of any tampering.
- e) The tenderer will provide:
 - i. System design - Include statement that identifies the assumptions used for design purposes, description of design details and specifications, manner of operation (timed and manual).
 - ii. Design proposal drawings/schematics/controller map showing sprinkler head locations, valves, spacings, zones together with services and equipment required to support the field irrigation.
 - iii. Calculations should be performed for peak dry season, estimating the water requirement and frequency required.
- f) As-built drawings will be required showing the irrigation system, the location of any existing drainage pipework and new pipework required.
- g) The Contractor shall adjust irrigation frequency and timing of all irrigation systems at the level required to provide uniform distribution to maintain healthy turf.
- h) The Contractor shall calibrate the irrigation system so that all areas receive adequate coverage.
- i) The Contractor shall cater for temporary irrigation solutions during the athletic track installation which minimises overspray.

Drawing 2 – Irrigation System Overlaps

3.4 SPECIFICATIONS FOR STANDARDS OF WORK

3.4.1 GENERAL DESIGN GUIDELINES

The Proponent shall prepare and submit a Design Proposal for:

1. the playing field showing the grades to be achieved,
2. irrigation system layout and control wiring schematics and
3. goal posts design.



Conceptual Design Drawings of all elements of the Works shall comprise Layout Plans, all four (4) elevations, Longitudinal and Transverse sections. The drawings are to be submitted in both PDF and Auto CAD format. All dimensional data should be provided in the International System of Units (SI) system of metric units. The Contractor shall verify all data provided by the Employer and shall produce designs that are based on that data.

3.4.2 MECHANICAL DESIGN REPORT

A written system brief with an overview of the intended operations of the irrigation system inclusive of any assumptions required for the water storage, supply and any other mechanical systems incorporated in the system.

Preliminary calculations for water supply rate and assumptions are to be included in the report.

3.4.3 AS-BUILT DRAWINGS

Contractor to Supply a full and complete set of "As-Built" Drawings:

- i. Contractor shall provide to the Employer, upon completion of the Works, a full set of the Contract and/or Working Drawings together with any other relevant details and information fully marked up, revised, and updated to indicate the final construction and form of the whole of the Works as completed;
- ii. During the construction of the Works, one set of the working drawings shall be kept in a 'record set' by the Contractor on the site marked up to show, as they occur; any variations in the Works, location of services uncovered, obstructions, etc. This set of marked-up 'record' drawings shall be made available for inspection by the Employer whenever required and ultimately used as the basis for a final set of "As-Built" drawings;
- iii. The "As-Built" set of drawings shall be completed and delivered to the Employer as soon as possible after the completion of the Works. The Taking Over Certificate shall not be issued by the Employer until the "as-built" drawings are received and reviewed. The Contractor shall provide Two (2) Hard Copies and two (2) soft copies – PDF & Native File; and
- iv. Any failure of the Contractor to submit the "As Built" set of drawings within fourteen (14) calendar days before the completion of the works shall entitle the Employer to have such drawings prepared by others at the Contractor's expense.



EVALUATION CRITERIA

	EVALUATION/QUALIFICATION CRITERIA	REQUIREMENTS	MAX SCORE	MIN SCORE
Qualification	Eligibility of Contractor	Submission of all documentation required by this RFP, inter alia: <ol style="list-style-type: none"> 1. Certificate of Incorporation, Valid VAT, NIS and BIR Certificates & Compliance Certificates, Annual Returns (As applicable) 2. Completed Form of Tender 3. Tender Security Bond 4. Declaration and Commitment Form 	Yes/No	
Qualification	Historical Contract Non - Performance	Separate Statements provided on: <ol style="list-style-type: none"> 1. No History of Non-performing contracts 2. Pending Litigation 3. Past judgements within the last five (5) years. 	Yes/No	
Technical	Track record of contractor with respect to similar projects / contracts	List of past projects inclusive of a brief scope that will demonstrate your Company's' relevant experience in the successful completion of three (3) or more similar projects / similar scope of works. <ol style="list-style-type: none"> 1. 3 similar projects & client references (15 marks) 2. 2 similar projects & client references (10) 3. 1 similar project & client reference (5) *Marks may be pro-rated based on combination submitted.	15	7
Technical	The experience and knowledge of contractors' key personnel on the Project Team	Clear description of: <ol style="list-style-type: none"> 1. Organisational Chart of Project Team and Project Role definition (5) 2. Relevant qualifications and experience of Project Team (6) 3. Previous experience in construction of FIFA compliant or High-Level playing fields (8) 4. Previous experience in installation of pop-up irrigation systems for sporting field (3) 	25	12



		5. Hand & signed CVs of each Personnel in the Project Team (3)		
Technical	Methodology/Schedule	<ol style="list-style-type: none"> 1. Project-specific Methodology for undertaking the project (15) 2. QA/QC Plan showing hold points, inspection and tests (5) 3. Project-specific detailed Programme of Work (5) 4. Listing of Tools and Equipment to be used on site (5) 	30	15
Technical	Health Safety Security & Environmental Plan & Quality Assurance	<ol style="list-style-type: none"> 1. Quality Manual and Policy Statement (5) 2. Health, Safety & Environmental Manual and Policy Statement (5) 	10	5
Financial	Project Costing	Contractor's Price Proposal	20	-
Total Score			100	