



Rajasthan Cricket Association

SMS Stadium, North Pavillion, Ambedkar Circle, Jaipur 302005

Phone: +91-141-2940700, 2940701, 2940702, 2940703
Web Site: www.cricketrasthan.in E-mail: rca@cricketrasthan.in

Dated: 03-12-2022

NOTICE INVITING BID

NIB No. : 001 /2022-23

RCA invites Bids in two bid system for the following works :

S.No	Name of Work	Estimated Cost In RsCr
1	Preparation of Play ground & Construction of Pitches in International Cricket Stadium, Chonp ,Ajmer –Delhi Bye pass, Jaipur	Rs 12 cr

More details may be seen in the Bidding Document at our office website www.cricketrasthan.in

Honorary Secretary
RCA

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Web Site: www.cricketrasthan.in E-mail: rca@cricketrasthan.in

No:- /2020-21/D-

Dated:-

NOTICE INVITING BID

NIB No. : / /2022-23

Name of Work	Preparation of Playground & Construction of Pitches in International Cricket Stadium, Chonp, Ajmer –Delhi Bye pass, Jaipur
Bid Procedure	<ul style="list-style-type: none">• Two Stage tender• 1st -Envelope Technical ,• 2nd Envelop Financial
Bid Evaluation Criteria (Selection Method)	L1 (eg.Least Cost Based Selection (LCBS)-L1)
Bid application and payment *	The Bidder Can down load Bid Document from RCA web Site www.cricketrasthan.in OR can be Purchased from RCA office <ul style="list-style-type: none">• Bidding document fee: Rs. 5000/- (Rupees Five thousand only)• Requisite Bid Security Deposit
Estimated Cost	<ul style="list-style-type: none">• INR Rs 12 Cr
Bid Security Deposit	<ul style="list-style-type: none">• Amount (INR) : 2% (Rs 24 lacs) in the form of DD
Start/ End Date for Sale of Bid	<ul style="list-style-type: none">• Start Date: 05.12.2022 from 10 AM onwards• End Date: 12.12.2022 upto 3.00 PM
Physical Submission of Bid Start & Closing Date	Dt 29.12.2022 . up to 3.00 PM At RCA office , North Block , SMS Stadium, Jaipur-302005 (Rajasthan) In case EMD in from BG, Original Bank Guarantee is to be submitted
Date/ Time/ Place of Technical Bid Opening	Dt 29.12.2022 at 03.30 pm At RCA office , North Block , SMS Stadium, Jaipur-302005 (Rajasthan)
Date/ Time/ Place of Financial Bid Opening	<ul style="list-style-type: none">• Dt 04.01.2023 At RCA office , North Block , SMS Stadium, Jaipur-302005 (Rajasthan)
Bid Validity	<ul style="list-style-type: none">• 120 days from the bid submission deadline
Time Period	<ul style="list-style-type: none">• 09 Months

Note :-

1. Bidder (authorized Signatory) shall S u b m i t Technical and Financial proposal as follows :

(a). Envolp –I Should contain only Technical bid papers along with Bid Security Deposit

(b). Envolp –II Should contain Financial bid

Both these envelop should be placed in One Envelop for bid Submission

2. In case, any of the bidders fails to pay tender Fee, BSD, it then in that case Bid shall not be accepted.

3. RCA reserves the complete right to cancel the bid process and reject any or all of the bids.

4. No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.

5. RCA disclaims any factual/ or other errors in the bidding documents (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid- proposal.

**Honorary Secretary
Rajasthan Cricket Association**

TECHNICAL BID DOCUMENT

(For the use of Envelope –I)

Rajasthan Cricket Association

SMS Stadium, North Pavillion, Ambedkar Circle, Jaipur 302005

SCHEDULE AND SPECIFICATIONS

1	Name of work	:	Preparation of Play ground & Construction of Pitches in International Cricket Stadium, Chonp , Ajmer –Delhi Bye pass, Jaipur
2	NIB No.	:	/2022-23
3	Approximate cost	:	Rs. 12Cr
4	Cost of the tender documents	:	Rs. 5000 The Bidders are required to submitted Bid security, cost of Bid documents, through Cash / DD /
5	Earnest Money (in favour of Secretary, RCA , Jaipur)	:	Rs. @ 2% Rs.24 lacs Bid Security (Earnest money) may be submitted by way of bank guarantee. In case bidder opts to submit bid security through bank guarantee, the bank guarantee should valid up to 12 Months from the date of opening of the bid in prescribed format.
7	Start/ End Date for Sale of Bid		Start Date: 05.12.2022 from 10 AM onwards End Date: 12.12.2022 up to 3.00 PM
8	Physical submission of Bid		Dt 29.12.2022 . up to 3.00 PM At RCA office , North Block , SMS Stadium, Jaipur-302005 (Rajasthan)
9	**Date/ Time/ Place of Bid Opening		Dt 29.12.2023 at 03.30pm , At RCA office , North Block , SMS Stadium, Jaipur-302005 (Rajasthan)
10	Date/ Time/ Place of Financial Bid Opening		Dt 04.01.2023 At RCA Office, North Block, SMS Stadium, Jaipur- 302005 (Rajasthan)
11	Bid Validity		➤ 120 days from the bid submission deadline
12	Time Period		➤ 09 Months

SCHEDULE – A: INFORMATION USEFUL FOR THE CONTRACTORS:

The Tenderer should see the site and fully understand the conditions of the site before tendering and include all leads, lift etc for the material in his item rate/percentage to be quoted on the rates give in the Schedule „G“. The work shall be carried out in accordance with the Rajasthan PWD detailed specification and to the entire satisfaction of the Engineer – In – Charge of the work.

SCHEDULE – B: LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT

The drawing may be seen in office .

SCHEDULE – C: LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR: List of the drawing to be supplied by the contractor NIL. But the contractor shall have to arrange at his own cost drawings required for the work .

The test of the materials and workmanship shall be conducted by the RCA staff as necessary. The result of such tests should confirm to the standard laid down in the Indian standard & or the standers laid down in the detailed specification of the Public by the contractor qualified personnel as required under the contractor enlistment rules duly approved by the Deptt. Shall have to be engaged at site by the Contractor. RCA reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE – E: SAMPLES OF THE MATERIALS:

The sample of the materials to be used by the contractor shall be deposited 15days In advance with the Engineer In charge and be got approval by him before use.

SCHEDULE - F: TIME OF COMPLETION:

The work should start within _____10_____ days of issue of work order and complete within times limits.

SCHEDULE – G: ATTACHED SEPARATELY BASED ON BSR PWD, JAIPUR.

SCHEDULE – H: SPECIAL CONDITION: Attached Separately.

SCHEDULE – I: LIST OF MATERIAL TO BE SUPPLIED BY THE RCA : NIL

SCHEDULE – J: COST OF TENDER DOCUMENTS, PROCESSING FEES & EARNEST MONEY.
Bid

Date of submission of Bid Cost, Bid Processing fees & EMD is Date 29-12-2022 upto 3.00 PM and

In the absence of such fees the bid of respective bidder will be considered as non-responsive and shall be rejected. If a bidder opt bid security to be deposited through bank guarantee, the bank guarantee should be valid for next seven months after the bid opening date. A copy of the such bank guarantee will be required to be attached with the Technical bid submission document .

The bank guarantee will be physically handed over upto prescribed time to Nodal officer of RCA office, North block, SMS Stadium, Jaipur, as per specified in bid documents, annexure-2. Bank guarantee will be in specified Performa enclosed with this bid document.

Signature of the Contractor

Hon Secretary
RCA

With full Name and Adress

Mobile No

Attachment of Documents with Technical Bid for Technical Qualification :

1. Bidder should have supplied and installed a sub-surface vacuum powered drainage & aeration system in the last 7 years which should be successfully operating for the last five years in at least one ICC compliant cricket stadium hosting international matches. Completion certificate needs to be submitted. In case the work is done with a private customer, necessary TDS certificates also needs to be submitted.
2. Bidder should have supplied and installed a USGA standards cricket outfield with natural grass in India in last 7 years compatible and successfully working in conjunction with a sub-surface vacuum powered drainage & aeration system.
3. Joint ventures are not acceptable.
4. Certified Copy of CA for average turnover of Rs 30 Cr in the last 05 years
5. Copy of registration in India , GST, PAN registration in India.
6. income tax return and annual return in India for the last 5 years.
7. Annx 1, 2 ,3

Hony Secretary
Rajasthan Cricket Association

SPECIAL CONDITIONS

1	The work shall be executed as per direction , guidance of Curator RCA
2	The material to be used in work like Black cotton soil , red soil , Bermuda tiffway 419 grass , Bermuda selection 1 grass , good earth ,Bajri ,etc shall be as per Criteria mentioned in tender document & IS Code . Quality report for the same shall be submitted by the contractor from approved laboratory/ Govt agency as required . The material shall also be to the specification of RCA , Pitch Curator / Eng In charge
3	The fertilizer (npk ,Zink , Sulpher) shall be supplied & spread minimum 3 times in a year under direction of Curator RCA / Engineer In charge . The rate for complete item is for Two years & payment will be done accordingly in stages of work
4	Operation & Maintenance shall be as per standards of IPL . The Contractor has to deploy labor & required machinery including fuel at his own cost . Water & Electricity charges will be born by RCA
5	The Contractor should quote NON-BSR item rate including all taxes , lead & lift
6	One Pitch Curator approved by BCCI should also visit the ground , pitch as and when required during BCCI approved matches / once in a month for inspecting and ensuring regular maintenance of Ground & pitch
7	During execution of work suggestions of Curator RCA will be final & work should be carried out accordingly

Specified Bank Guarantee Performa

Section – 6

Form of (Bank Guarantee) -En cashable at branch of the bank in Jaipur City.

To
Secretary,
Rajasthan Cricket Association
Jaipur

Sub: Bank Guarantee No. _____ dated _____ for [amount of Security in figures]
[in words] on behalf of _____ [Name of the Bidder] against the
Security Deposit for the work of **Preparation of Play ground & Construction of Pitches in
International Cricket Stadium , Chonp , Ajmer –Delhi Bye pass , Jaipur** WHEREAS,
_____ [name of Bidder with address] (**hereinafter called “the
Bidder”**) has submitted his Bid dated for the work of **Preparation of Play
ground & Construction of Pitches in International Cricket Stadium , Chonp , Ajmer –Delhi Bye
pass , Jaipur** (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that we _____
_____ (Name of Bank) of having our registered office
at
_____ [name of country] having our registered office
at
_____ (hereinafter called “the Bank”) are bound unto Secretary, Rajasthan
Cricket Association (Hereinafter called “the Employer”) in the sum of Rupees
_____ [**Amount of Security in figures**] _____ (in words) only
for which payment will and truly to be made to the said Employer, the Bank binds itself, its
successors, and assigns by these presents.

That on demand of RCA , this Bank Guarantee is encashable at following branch in Jaipur City.

1. Name of Bank:
2. Name of the branch with branch code:
3. Address:
4. E-Mail Id:
5. Telephone No.
6. Fax No.:

SEALED with the Common Seal of the said Bank this _____ day of _____ of 20__.

THE CONDITIONS of this obligation are:

- (1) if the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- (2) if the Bidder refuses to accept the correction of errors in his bid;
- (3) If the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the

Employer will note that the amount claimed by him is due to him owing to the occurrence of one or more of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 30 days after the date of expiration of the Bid Validity, as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

The amount covered under the above Bank Guarantee shall be automatically be credited in the accounts of RCA in Bank, Jaipur through **ISFC code No** **Bank Account No.** on the date of expiry or its validity, unless the agencies get it re- validated well before its expiry date or produce NOC from RCA in written for its release.

Date _____

Signature of the Bank _____

Witness _____

Seal _____

[Signature, Name and Address]

[Note: To be furnished on appropriate non-judicial

SPECIAL CONDITIONS

SCHEDULE 'H'

01. Use of Bitumen mixture Tar mechanical lime grinder, cement concrete mixer & vibrator is essential for the work. This shall have to be arranged by the bidder at his own level /cost.
02. If there is any typographical error or otherwise in the 'G' Schedule the rate given in the relevant BSR on which Schedule 'G' has been prepared, shall prevail.
03. The bidder shall follow the bidder labour regulation and abolition Act 1970 & Rule 1971.
04. The RCA shall have right to cause an audit technical examination of the work and the final bills of the bidder including all supporting vouchers, abstract etc. to be made within two years after payment of the final bills and if as a result such audit any amount is found to have been over paid / excess in respect of any work done by the bidder under the contract or any work claimed by him to have been done under this contract and found not to have been executed the bidder shall be liable to refund such amount and it shall be lawful for the RCA to recover such sum from him in the manner prescribed in special condition no. 8 or any other manner legally permissible and if it is found that the bidder was paid less than that was due to him under the contract in respect of work executed by him under it, the amount of such under payment shall be paid by the RCA to the bidder.
5. The bidder shall not work after the sunset and before sunrise without specific permission of the authority Engineer.
6. Wherever any claim against the bidder for the payment of a sum of money arises out of under the contracts, the RCA shall be entitled to recover the sum by appropriating in part or whole of the security deposit of the bidder, In the event of the security being insufficient or if no security has been taken from the bidder then the balance of the total sum recoverable as the case may shall be deducted from any sum then due or which at any time there contract with the RCA should this sum be sufficient to recover the full amount recoverable. The bidder shall pay to RCA on demand the balance remaining due. The RCA shall further have the right to affect such recoveries under P.D.R. Act.
7. The rate quoted by the bidder shall remain valid for a period of 4 (Four) months from the date of opening of the bids.
8. By submission of this Bid the bidder agree to abide with all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
9. No conditions are to be added by the bidder and conditional Bid is liable to be rejected.
10. All transaction in this execution of this work and this bid will be liable to Sale-Tax vide section. 2(B) read with sub-clause (4) Sale-tax Rule, 1954.
11. If any bidder withdraws his Bid prior to expiry of said validity period given at S.No. 7 or mutually extended prior or makes modifications in the rate, terms and conditions of the Bid within the said period which are not acceptable to the department or fails to commence the work in the specified period, fails to execute the agreement the department shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of earnest money given in any form absolutely. If any bidder, who having submitted a Bid does not execute the agreement or start the work or does not complete the work and the work has to be put to rebidding he will stand

debarred for six months from participating of Biding in RCA in addition to forfeiture of Earnest Money / Security Deposit and other action under agreement

12. The bidder shall arrange his own machinery required for the work such as Bitumen Mixer, Hot Mix plants and paver, road roller, Tar boiler, sprayer etc.
13. The bidder shall arrange his own Storage tanks up to 10 tones capacity for strong bulk bitumen. Wherever supplied by the department.
14. Rules regarding enlistment of bidder provide that work up to the times limit for which they are qualified for Biding can be allotted to them, therefore, before bidders the bidder will keep this in mind, and submit the details of the work. Bid with incomplete or incorrect information are liable to be rejected.
15. Any material not conforming to the specifications collected at site have to be removed by the bidder within a period of 3 days of the instruction, issued by do Engineer -In charge in writing failing which, such material shall be removed by the Engineer-In charge at risk and cost of the bidder after expiry of 3 days period's
16. The material collected at site and paid provisionally shall remain under and ward of the bidder till it is consumed, fully on the work.
17. The rates provided in Bid documents are inclusive of all Taxes and royalty
18. For paver work at lest 3 road rollers shall be simultaneously deployed.
19. Bitumen for tack coat or any other purposes shall be applied only by a bitumen sprayer of a mechanical pressure.
20. No extra lead of earth/material shall be paid over and above as specified in 'G' Schedule Source/borrow pit area for earth shall have to be arranged by the Bidder at his own cost.
21. Undersigned has full right to reject any or all Bids without given any reasons.
22. Mortar of Masonry work and lean concrete will be permitted mixer with hopper.
23. As per Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the etc."
24. Defect Liability Period (DLP) for shall be for 1 year from date of completion
25. The Bidder are required to submit copy of their enlistment as bidder.
26. Conditions of RPWA-100 will be mandatory & acceptable to the bidder.
27. Any Bid received with unattested cutting/overwriting in rates shall be rejected

Signature of Contractor

**Hon Secretary
RCA**

TECHNICAL SPECIFICATIONS OF SUB-SURFACE VACUUM POWERED DRAINAGE & AERATION SYSTEM

The sub-surface vacuum powered drainage and aeration system (hereafter referred to as 'SYSTEM') should be designed to pull ("Vacuum" mode) or push ("Pressure" mode) air through the soil profile of a sports field playing area. This system should attach to a drainage network located beneath the playing surface and should utilize the drainage network as a medium to move air and remove moisture from the turf sub-surface.

The System should utilize three main equipment systems that should operate in conjunction to one another. These systems include the above-ground air handling equipment, below-ground air/water separator equipment, and in-field sensors. The above-ground air handling equipment should include the following components:

- Field Aeration Fan
- Air-Flow Reversing Valve
- 60" X 120" Intake/Exhaust Louver

Among this equipment, the field aeration fan, field aeration, and air flow reversing valve will be contained on a skidded unit. Other equipment that needs to be located within the System air handling equipment room includes the following:

- Exhaust Fan
- 24" X 24" Barometric Louver

The underground air/water separator should include the following components:

- Submersible Dewatering Pumps (2 qty.)
- Main Drain Isolation Valve

The in-field sensors should include the following components:

- Wireless temperature, moisture, and salinity sensors (12 qty.)
- Hard wired oxygen sensors (2 qty.)

A control system should be included for each of the components listed above; the System should be completely automated and should be controlled locally via a local control station at the unit assembly or remotely via a web-based user interface.

The comprehensive equipment description is given below.

GROUNDEQUIPMENT

Field Aeration Fan (and Motor Controls): The field aeration fan (EF-1) is a Class 32 centrifugal blower. The fan motor is controlled by a variable frequency drive (VFD)

Air-Flow Reversing Valve: The air-flow reversing valve is an automated valve that allows the system to operate in "Pressure" or "Vacuum" mode.

Intake/Exhaust Louver: The intake/exhaust louver is a fixed louver to allow 27.81 ft.2 of free area across the louver. This provides for a free area velocity of 474.65 ft./m across the louver at the fan's design point.

Barometric Louver: A barometric 2' X 2' barometric louver to be used to allow inlet air flow to the aeration room

Controls: The System should be composed of two (2) varieties of system control. The unit should contain a local control panel assembly at the above ground equipment location. These controls should include all motor controls, manual operation controls (i.e., ON, OFF modes), pump controls, and fault

illuminations. The System should provide access to real time field conditions and system operations via any internet connected device. At the main control center, a HMI screen should also display current field conditions and operations of all system activity. The field managers should be able to review all information from a smartphone, tablet or desktop computer. Oxygen, soil temperature, moisture and salinity levels throughout the entire field can be monitored, evaluated and the system can be initiated to respond with treatment options to restore the field to specific targeted levels. It should be cloud based storage which retains all operations and field data for trending and evaluation. The combined monitoring, operational and communication technologies should give field managers immediate systems response and access to control healthy field conditions that support grass and root growth.

BELOWGROUNDEQUIPMENT

Dewatering Pumps: One qty. dewatering pumps are to be mounted inside the air/water separator. The pumps should include a lift-out system and 1" SS lift-out rails. Pumps should be controlled via lead/lag pump controller and a series of five (5) float switches. These pumps should also provide seal fail and thermal protection for the pump motor. Rigid, non-metallic 1-1/2" NOM conduit shall connect the control system (located in the control room) with dewatering pumps, controls, and limit switches. Conduits shall connect the air/water separator with the System above-ground equipment. Two (2) of the conduits should be for the pump power leads, one (1) for the control leads and pressure tube, one (1) for the oxygen sensor cables and the fifth as a spare.

Isolation Valve: The main drain isolation valve should be an automated pneumatic valve designed to isolate the main drain line out of the air/water separator, thus allowing all of the treatment from the System to be directed solely to the playing field subsurface. The isolation valve should be pneumatically controlled using common components seen utilized by the air reversing valve. All valve movement should be composed of a stainless steel 2" bore cylinder and a stainless steel isolation gate. The valve body should be composed of two (2) 1" thick HDPE plates. The configuration of the valve along with a safety circuit for pneumatic protection should make the valve normally open.

INGROUNDEQUIPMENT

Wireless Sensors (Moisture, Salinity, Temperature): Twelve (12) qty. wireless sensors should be provided and located at six (6) locations within the playing surface. These sensors should measure salinity, moisture, and temperature levels at two depth locations within the soil subsurface. All data collected from these sensors should be able to be viewed via web-based interface. All data should also be backlogged and can be accessed for data analysis and integrated into operation of the System's aeration unit. The soil scout sensors should operate on a mesh network, have a battery life of 3-5 years, collect data readings every twenty (20) minutes, and can be mobilized as needed. Sensors should be accurate up to 0.1 °F temperature resolution, 0.1% volumetric soil moisture content resolution, and 0.1 dS/m soil conductivity for salinity measurements. All sensors should be mobile, and may be located by the field manager.

Wired Oxygen Sensor: This sensor should monitor soil respiration, aeration, and oxygen levels. The sensor heads should allow for oxygen reading range of 0 to 100% at less than 0.02% oxygen drift per day, with repeatability of $\pm 0.001\%$ oxygen. Direct burial shielded audio and communication conductor shall be used for communication between the in ground sensor and the base station.

UNITOPERATION

The System should have two modes of operation Vacuum and Pressure. Each mode of operation can be run either manually (at the local controller) or remotely. If the Manual mode is selected then the system will run indefinitely until turned off by the user. When the auto mode controls are utilized, the user has a variety of options for system use.

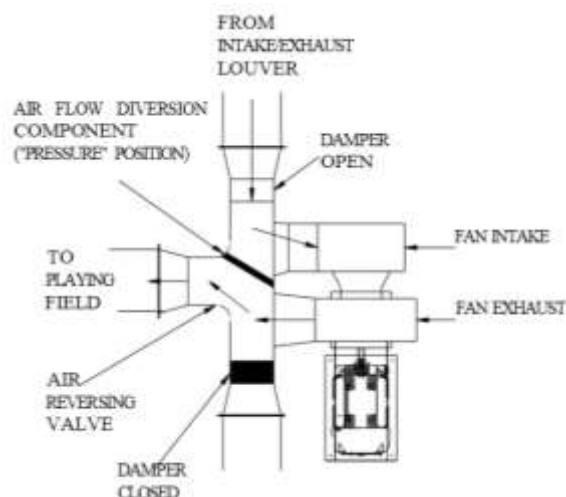
OPERATION

Vacuum Mode

The System can be placed in vacuum mode via local controls or remotely. When given permission to run in vacuum mode, pneumatic actuators should move the air flow reversing valve into proper position via air flow diversion component and intake/exhaust dampers. This should ensure the System will pull air through the field subsurface. Simultaneously, a pneumatic signal should close the isolation valve in the air/water separator.

Once all components are properly positioned, submersible pumps located in the air/water separator are to be placed on alert via a pump controller. The unit should then receive permission to run in the vacuum mode via a variable frequency drive. Air will subsequently be pulled from the playing field, through the air/water separator, through the System air handling assembly, and discharged through the intake/exhaust louver.

When water drains from the soil profile, it should be easily removed from the air/water separator without stopping the system. Carefully placed float switches five (5 qty.) in the air/water separator should control water level via submersible pumps. As the water level rises, these pumps should discharge water from the air/water separator, around the isolation valve, and into the main drain line. Should the water level rise above the highest float switch level, the system will shut down and main drain valve open, allowing all water to gravity drain out of the air/water separator.



SYSTEM USE OVERVIEW WATER REMOVAL

When the field is saturated, water takes up space in the profile and prevents air from penetrating the soil profile. Thus, the soil porosity is low. As the field dries out, the porosity increases and air flows easier through the profile. As the vacuum level decreases, air flow increases.

This vacuum force will pull water from the profile and into the drainage system. Once in the drainage piping, the water will gravity drain through a water separator. Accumulated water within the separator is then discharged to the main drain line via submersible pumps located within the water separator.

AERATION

The air and accumulation of gases (i.e. carbon dioxide and methane) in the soil profile are displaced by fresh air when the system is operating in pressure or vacuum. When a field is saturated with water, the vacuum level is high and uniform throughout the playing surface whether measured near a drain line or between laterals. Water removal and aeration are therefore uniform.

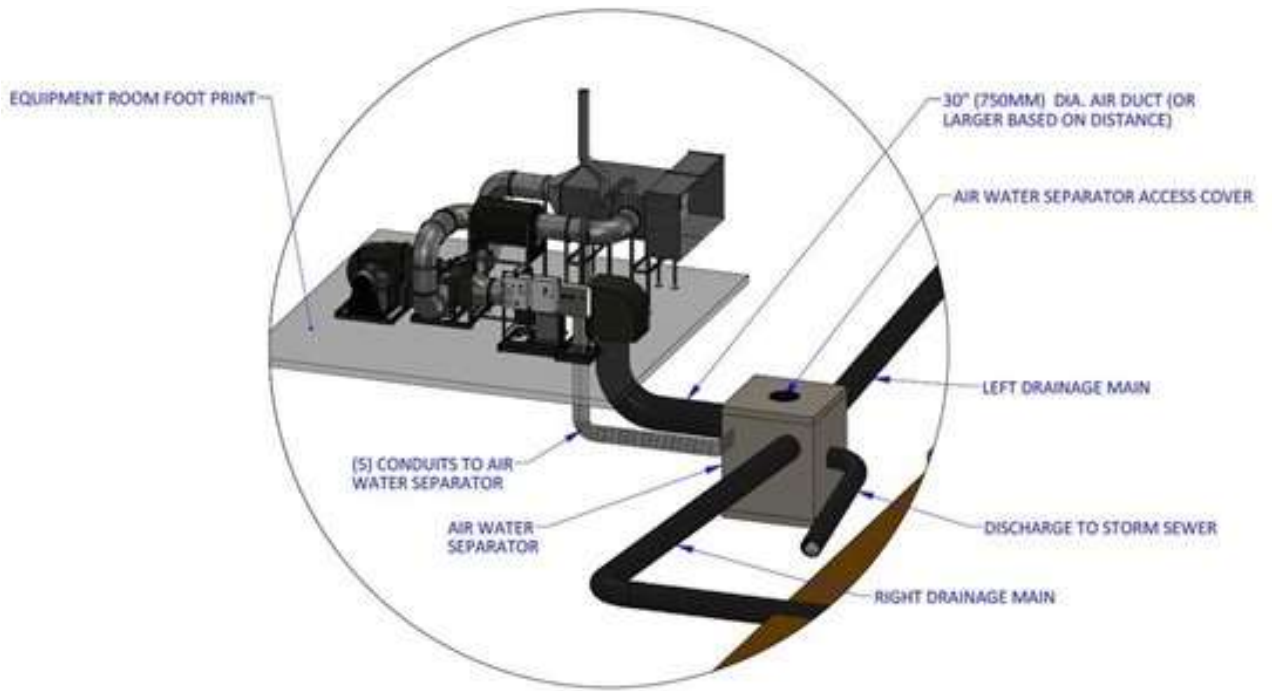
When a field is dry, the vacuum level at the gravel layer is higher near the drain piping; therefore the rate of aeration is higher there. Over time, equilibrium is reached and the levels of oxygen, carbon dioxide, etc. are uniform throughout the playing surface

MaterialsList(for one unit)

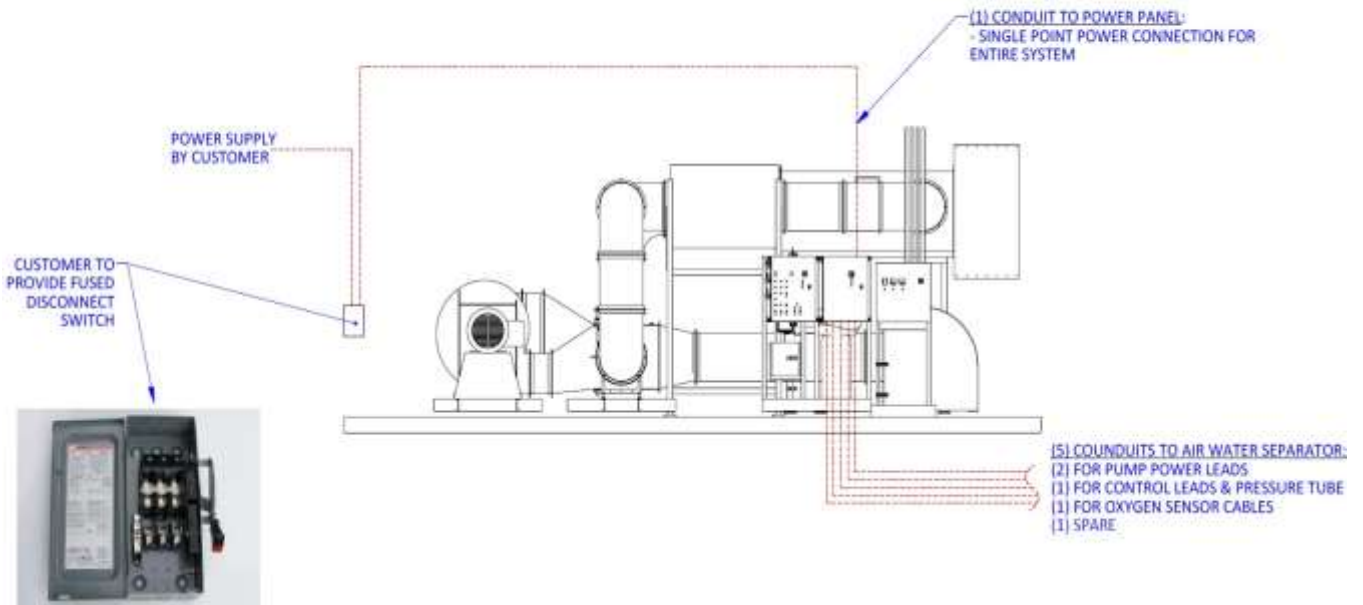
Sl. No.	Item	Description	Appx .Quantity	Country of Origin
1	Motor	150hp1800RPM460/60/3PremEffTEFC WEGMotor	1	USA
2	Compressor	5 HP 3 Phase TEFC 460V Motor, 60 GallonVertical Tank, Delivers 18 cfm @ 175 Psi;(Customer will provide their own MagneticStarter),(NoAutomatictankdrains requestedforthis quote)	1	USA
3	Blower	90 degree inlet position, Bolted accessdoor w/ flush interior surface, 1" drainthreaded half coupling plugged, Flangedand drilled in/out, RAL 6007 GreenIndustrial enamel exterior coat, Teflonshaftseal,150°FMaxdesigntemp.,Lase r cutprecision	1	USA
4	Valve	Custom Airflowreversingvalve,5port, rolledsteel	1	USA
5	Airdryer	RefrigeratedAirDryer	1	USA
6	Panel stand	PANELSTAND	1	USA
7	SilencerStand	Customfabricatedstandtodimensions providedfromCAD	1	USA
8	Silencer	Noisecanceling,circular,horizontalmount, fabricatedsilencer	1	USA
9	Louver	Ruskin,stationary,acousticallouver	1	USA
10	Transformer	200KVATRANSFROMER380VPRIMARY 480Y/277V	1	USA
11	Repeater	ECHOSolarPoweredRepeaterITU-1 (No Antenna)	2	USA
12	Sensors	HYDRAScoutITU-1(20minute transmissioninterval)	12	USA
13	OmniAntenna	OmniAntenna80cm (31.5")/6dBgain/5° electronicdowntilt	2	USA
14	YagiAntenna	YagiAntenna(330x215x65mm)enclosed 8dBiLogPeriodic. 90° receptionarc	2	USA
15	StubAntenna	Stubantenna800/900tilt-and-swivel22cm (8.7")/3dBgain	1	USA
16	CoaxialCable	5mCoaxialantennacable(BNC+N connector)	3	USA
17	PowerSupply	PowerSupply100-240VAC5m(EUPlug)	2	USA
18	CoaxialCable	30cmCoaxialantennacable(BNC+N connector)	3	USA
19	Basestation	BaseStationSubAir -ITU-1	1	USA
20	PLC	M258PerformanceLogicController-2 x5 fastsinkinput(200kHz,24Vdc),	1	USA
21	PneumaticS olenoids	Solenoid Air Control Valve, 4-Way/2Position/Spring Return, Coil 24 VDC, MaxTempRange0to122F,MaxOperatingPSI 115,CFM26,CV0.70	1	USA

22	Compressor VFD	SPEEDDRIVE7.5/5HP480V	1	USA
23	Main VFD	ATV630TYPE1460V150HPND125HP HD	1	USA
24	Enclosure	MetallicEnclosure39x32x12	2	USA
25	250amp Breaker	3P250ATHERMALMAGNETICBRKR	1	USA
26	Wired Oxygen Field Sensor	ApogeeInstrumentsSoilOxygenSensor withThermistor	2	USA
27	Transformer	Touch-Safe High-Inrush AC/ACTransformer750VA,240/480VInput, 120VOutput	1	USA
28	Float separator	Float Switches for dry-running protectionwithacordlengthof10meter(33feet).	5	USA
29	Plant roomducting andstands	Custom fabricated to dimensions providedfromCAD	up to 10meters	USA

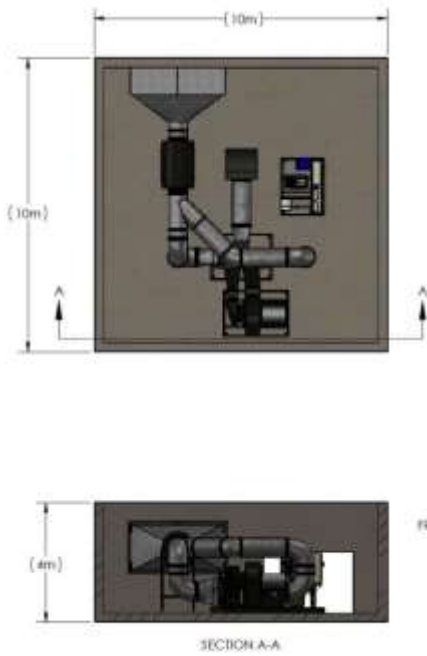
TECHNICAL DRAWINGS



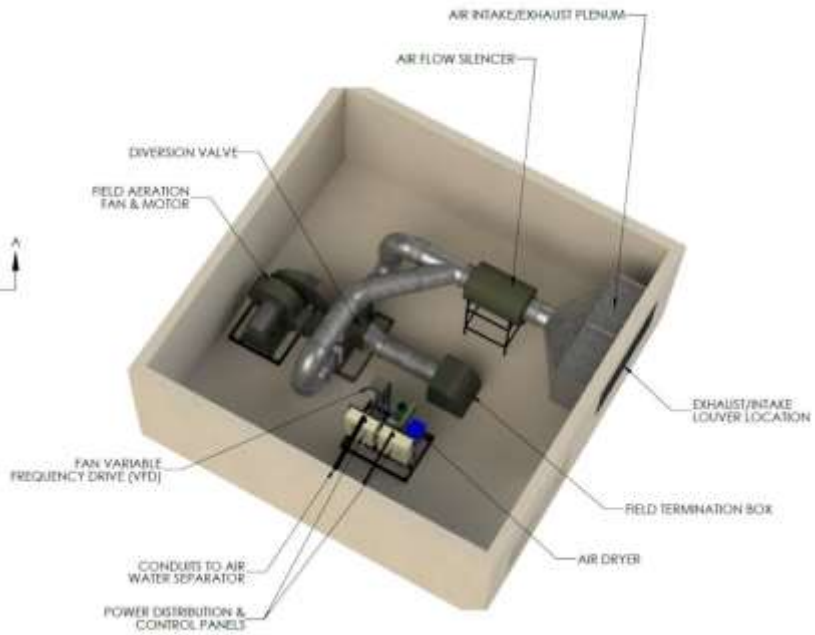
TYPICAL ON SITE ELECTRICAL INSTALLATION DETAILS:



ROOM LAYOUT

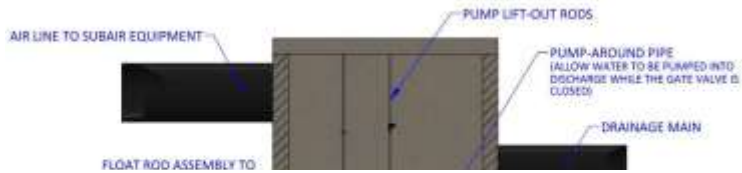


PRELIMINARY PLAN

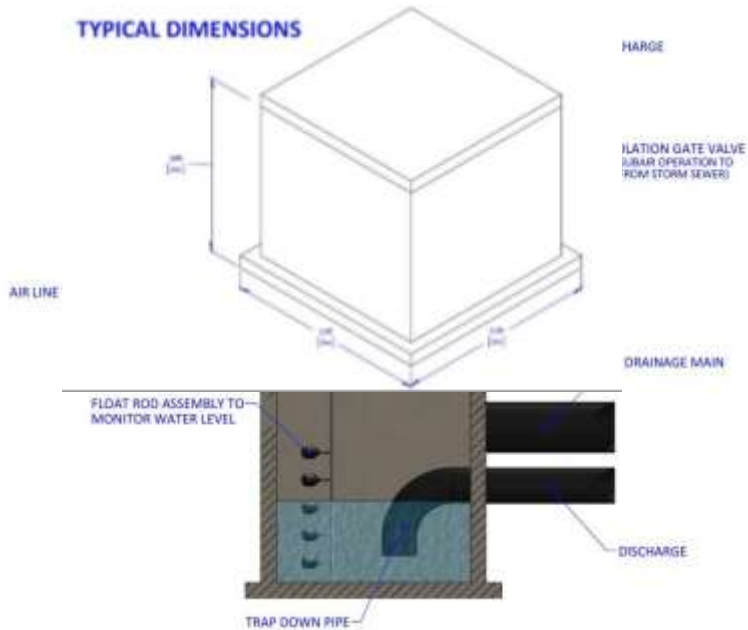


AIR-WATER SEPARATOR DESIGNS

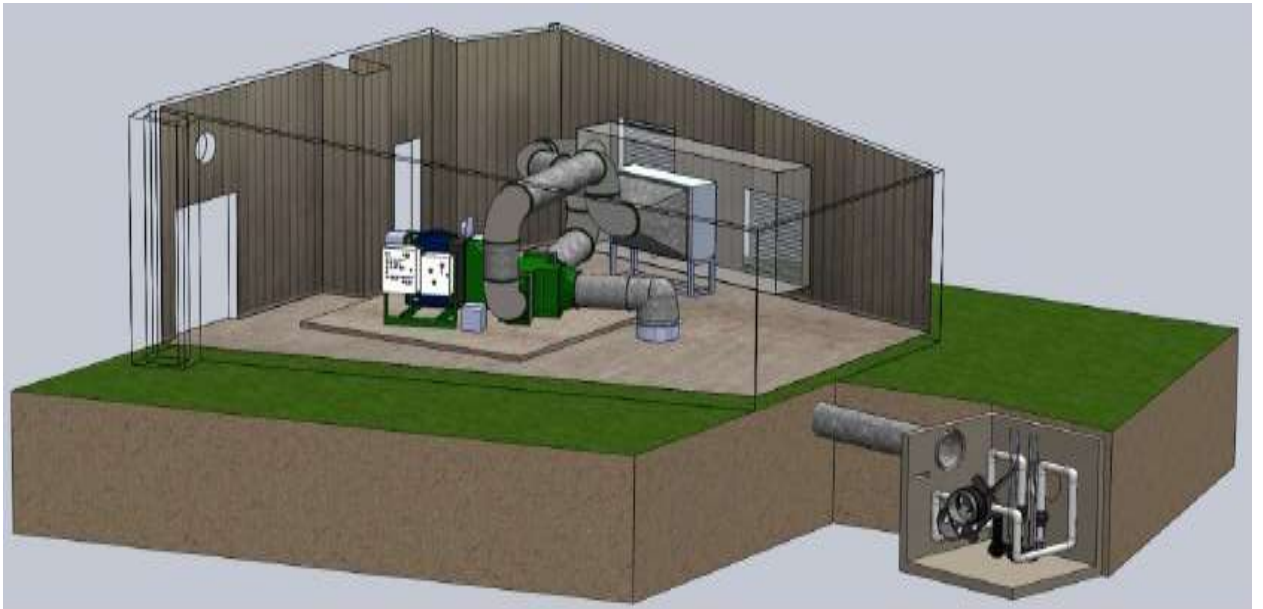
SEPARATOR WITH PUMP SYSTEM



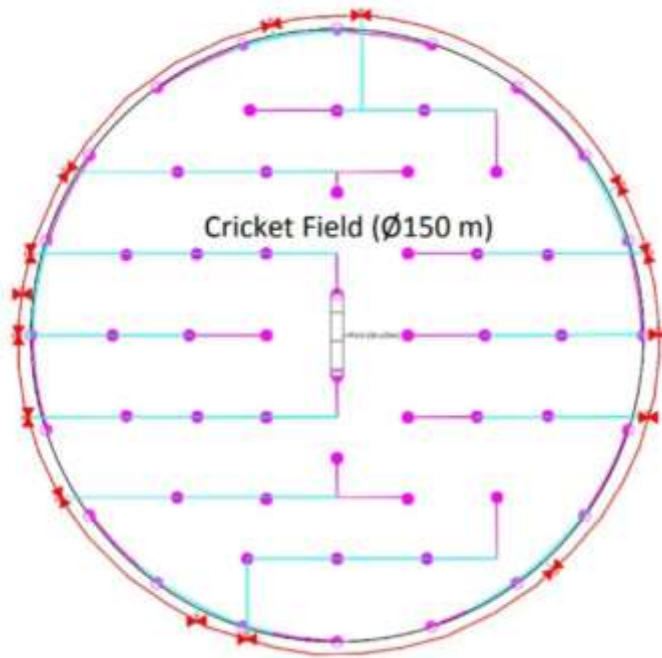
TYPICAL DIMENSIONS



SYSTEM ASSEMBLY



LINE DIAGRAM OF IRRIGATION SYSTEM





Rajasthan Cricket Association

SMS Stadium, North Pavillion, Ambedkar Circle, Jaipur 302005

Phone: +91-141-2940700, 2940701, 2940702, 2940703

Web Site: www.cricketrasthan.in E-mail: rca@cricketrasthan.in

GENERAL INFORMATION

1. Tender Copy can be purchased from the office of RCA on Cash payment of Rs. 5000 which is non-refundable.
2. Tender should be submitted in a one Main Envelop , in side Main envelop,
1st envelop should contain Technical bid documents and“ Technical Bid Envelop” Should be written over it
2nd Envelop Should contain Financial Bid and “Financial Bid” Envelop Should be written over it
3. The tender document should be duly signed by authorized person of the tendering firm. with all relevant details of contact person as Shown in document
4. The work is to be carried out to the satisfactions of Curator RCA & Engineer-in-charge. RCA
5. Earnest Money of Rs 24 lacs shall be deposit with the tender. Earnest Money would be deposited in the form of Demand Draft in favor of Rajasthan Cricket Association payable at Jaipur.
6. The RCA reserves the right to accept/reject any or all of the tenders without assigning any reason whatsoever and its decision will be final.
7. All tenders, in which any of the prescribed conditions are not fulfilled or which have been vitiated by errors in calculations, totaling or other discrepancies or which contain over-writing in figures or words or corrections not initialed and dated, will be liable to rejection.

BID Submission Procedure

The Submission procedure for tender is as follows:

1. 1st Envelop envelope will contain(Technical Bid)
 - DD of Rs. 24 lacs
 - All papers mentioned for Technical Qualification Criteria
 - Annx 1 , 2 , 3
2. 2nd envelope will contain only the price bid (Financial bid.)
- 3 2nd Envelope [Financial Bid] of those bidders will be opened:
 - (a) if amount towards EMD is found in order
 - (b) If all papers mentioned in Table of bid for Technical Qualification Criteria found in Order

Important Dates:

Date	Time	Particular
		Tender Notice
05.12. 2022 to 12.12. 2022	Up to 03:00 pm	Sale of Tender Document
19.12.2022	11 am	Pre bid meeting in Lounge , RCA academy
28.12 .2022	Up to 03:00 pm	Submission of Bid

Financial Details

1. Name of Work _____ :
2. Name of Contractor _____
3. Income Tax Pan No. _____
4. GST .NO. : _____
5. Average financial turnover achieved by the bidder in the last 05 financial years:

Sr.#	Year	Turnover
1		
2		
3		
4		
5		
	Average	Rs

Note: Balance sheets and Profit & Loss Accounts for the last three financial years should be enclosed.

6. Has the bidder ever been debarred form tendering for Central Government/any State Government/any Government undertaking? Yes/No
If yes, give details
7. Has the bidder ever been declared insolvent? Yes/No
If yes, give details
8. Names (S) and Branch (s) of bidder's Bankers

I/WE hereby certify that the above information is correct to the best of my/our knowledge and belief.

Date :

Place :

**Signature of Bidder
(With Full Name & Seal)**

Availability of Machinery, Equipment and Man Power

Sr. #	Details	Owned (Nos.)	Leased (Nos.)	Total
1.	Electrical Hammer			
2.	Tractor With Trolley			
3.				
4.				

Date :

Place :

Signature of Bidder
(With Full Name, Address & Seal)

Details of Major Works Completed

S.No.	Name of works (with agreement No. & Date)	Client	Place (District/ State)	Cost of work as per work order	Date of commencement	Stipulated date of completion	Actual Date of Completion	Actual Value of work Completed
1	2	3	4	5	6	7	8	9

Date :

Place :

Signature of Bidder
(With Full Name, Address & Seal)