

# Rajasthan Cricket Association



## **Name of Work**

**Preparation of Playground & Construction**

**of**

**Pitches in International Cricket Stadium,**

**Chonp, Ajmer – Delhi Bye pass, Jaipur**

**----- FINANCIAL BID -----**

**(After Corrigendum)**

# Rajasthan Cricket Association

SMS Stadium, North Pavillion, Ambedkar Circle, Jaipur 302005

## SCHEDULE AND SPECIFICATIONS

1	<b>Name of work</b>	:	<b>Preparation of Playground &amp; Construction of Pitches in International Cricket Stadium, Chonp, Ajmer-Delhi Bypass, Jaipur</b>
2	<b>NIB No.</b>	:	/2022-23
3	<b>Approximate cost</b>	:	Rs. 12 Cr
4	<b>Cost of the tender documents</b>	:	Rs. 5000 The Bidders are required to submitted Bid security, cost of Bid documents, through Cash / DD /
5	<b>Earnest Money (in favour of Secretary, RCA , Jaipur)</b>	:	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	<b>(a) Start/ End Date for Sale of Bid</b>		Start Date: 05.12.22 from 10 AM onwards End Date: 22.12.22 up to 3.00 PM
	<b>(b) Pre Bid Meeting</b>		04.01.2023
8	<b>Physical BG(Bid Security) Physical Submission of Bid Date</b>		16.01.2023 up to 3.00 PM RCA north block Building , Jaipur- 302004 (Rajasthan)
9	<b>**Date/ Time/ Place of Technical Bid Opening</b>		Dt 16.01.2023 at 03.30pm
10	<b>Date/ Time/ Place of Financial Bid Opening</b>		Dt 17.01.2023 RCA north block Building , Jaipur- 302004 (Rajasthan)
11	<b>Bid Validity</b>		➤ 120 days from the bid submission deadline
12	<b>Time Period</b>		➤ 09 Months

## SPECIAL CONDITIONS (A)

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

## **SPECIAL CONDITIONS (B)**

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 & Rule1971.
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**

**Name of Work - Preparation of Cricket Play Field With Pitches at , Chonp  
( Appx . Area14,000 ) , JAIPUR**

**GENERAL ABSTRACT**

**Part - ( A) - Irrigation & Grass Work**

S. No	Particular	Amount in Rs
1	Sub base , Irrigation & Grass Work ,Pitch work , Operation & Maintenance for 2 years	Rs

**Part - B - Sub Surface Vacuum Powered drainage & Aeration System**

S.no	Particular	Amount in Rs
1	Drainage work , Sub Surface Vacuum Powered drainage & Aeration System Operation & Maintenance of System for 3 years	Rs

Signature & Seal of Agency

Name ;

Designation :

Mobile no:

mail address :

**Name of Work - Preparation of Cricket Play Field With Pitches at , Chonp( Appx .  
Area14,000 ) , JAIPUR**

**Part - (A) with O&M**

Sl. No.	Item Description	Quantity	Units	Rate (Rs.)	Total Amount
<b>0001</b>	<b>Sub Base, Drainage ,Irrigation &amp; Grass work</b>				
0001.01	Earth work in surface excavation not exceeding 35 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m and applying anti termite chemicals	4,200	cum		
0001.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	4,200	cum		
0001.03	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	14,000	sqm		
0001.04	Providing and laying of polypropylene fibers Geotextile separation barrier of 140/150 GSM, as per the standard procedure, as per the enclosed specifications complete as required, complete as per requirement and as per direction of Engineer-in- charge.	19,600	sqm		
0001.05	Supplying, laying and compacting of stone aggregate 4mm to 6mm size to form a contour and elevation to the desired level, complete as per requirement and as per direction of Engineer- in-charge 100mm thick layer (40% extra for tranches and compaction)	1,960	cum		
0001.06	Washing charge of stone aggregate	1,960	cum		
0001.07	Supplying, laying and compacting of medium fine sand 0.5mm to 1mm and down size to form a contour and elevation to the desired level, complete as per requirement and as per direction of Engineer- in- charge (compacted thickness not less then 200mm)	2,800	cum		
	<b>Irrigation System for Cricket Field</b>				

2.0	<p>Supply and installation of pop-up sprinkler system (Toro) including all fittings, pvc pipe, accessories, excavation, laying pipes, complete in all the aspects Including supplying and installation of 10 H.P. submersible mono block pumping set with Electronic controller, making connections suitable for T.W/ D.C.B./ open well, installation of complete fittings and accessories with supplying pipes, jointing of electrical cable and other connections with manual operations. Sprinkler specifications should be: Arc adjustable from the top (30°-360°), colour coded nozzle tree, supplied with each sprinkler provides easy identification and versatility. 6 main nozzles and 2 inner nozzles provided with each sprinkler, screw-in nozzles — no adjustment screw required for retention. Full 4" pop-up, arc memory feature returns arc to previous setting (even if nozzle is turned beyond setting), rubber cover for minimizing impact damage, standard Check-O-Matic for eliminating low-head drainage, over-molded riser seal for greater debris resistance. Bidirectional, planetary, water-lubricated geardrive for providing extended life. Snap ring designed for ease of maintenance. Radius: 48'-71', flow rate: 5.6-31.3 GPM, operating pressure range: 40-100 PSI, recommended operating pressure: 60 PSI, 1" NPT femalethreaded inlet, nozzle trajectory: 25°, apex at 60 PSI, precipitation rate: 0.20" to 0.63" per hour, Check-O-Matic maintains 10' elevation change, Dimensions - Height: 8.50", Exposed surface: 3.38", Body diameter: 2.50"</p> <p>The approx pipe configuration is mentioned below: PVC pipe 90 mm-10 kg/cm<sup>2</sup> (Finolex/Supreme) 465m PVC pipe 63mm-10 kg/cm<sup>2</sup> (Finolex/Supreme) 315m PVC pipe 50mm-10 kg/cm<sup>2</sup> (Finolex/Supreme) 315m PVC pipe 40mm-10 kg/cm<sup>2</sup> (Finolex/Supreme) 450m Complete in all respect in Running Condition</p> <p><b>Note :</b> If there is any additional area then rate per sqm will be derived based on the rate quoted against this item.</p>	1	Job		
3	Grassing work				
3.1	Grassing with bermuda TIFFWAY 419 natural grass as per climatic requirement of the area with dibbling method including watering and maintenance of the lawn for 60 days, free from weeds and fit for mowing, complete as per requirement and as per direction of Engineer /RCA in- charge. The grass shall be dibbled in rows 3 cm apart in both directions and as per direction of Engineer in charge.	14,000	sqm		
3.2	Supplying of neem cake manure at site and mixing with sand on field, 3 kg per Sq M complete as per requirement and as per direction of Engineer/ RCA -in- charge.	42,000	kg		
3.3	Supplying of Dynosuper organic manure at site and mixing with sand on required percentage of 2 kg per Sq M(2%), complete as per requirement and as per direction of Engineerin/ RCA - charge.	84,000	Kg		
3.4	Supplying of Cocopeat manure at site and mixing with sand on required percentage of 3 kg per Sq M(3%), complete as per requirement and as per direction of Engineer/ RCA -in- charge.	42,000	kg		
3.5	Suppling and applying of needful chemical and fertilizer for the growth of grass and its protection from weed, insects and other objects	14,000	sqm		



<b>4</b>	<b>Cricket Pitch as Per direction of RCA in charge</b>				
4.1	Earth work in surface excavation not exceeding 35 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m	400	cum		
4.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	400	cum		
<b>4.3</b>	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	1,333	sqm		
4.4	Construction of 6 no's of pitches Black Clay from the selected site of KALAHANDI Or BALANGIR in ODHISA, duly tested and approved by the Grounds Curator in charge, with a pitch profile consisting 100 mm base of coarse river sand, 100mm of fine river sand and 200mm top layer of supplied clay soil (final profile volume to be measured after optimum compaction at OMC during handing over). Supplied soil is to be dried and aggregated to the desired size and laid layer by layer in dry condition after compacting each layer of no more than 75 mm by plate vibrator in dry condition, lightly scarifying the top of the compacted layer before laying soil for the next layer.				
a	100mm thick coarse River Sand	106	Cum		
b	100mm thick fine River Sand	106	Cum		
c	200mm thick Black Clay	177	Cum		
d	Bermuda Grassing with Selection no. 1	708	Sqm		
<b>5</b>	Construction of 5 no's of pitches RED Clay from the selected site of Mumbai, duly tested and approved by the Grounds Curator in charge, with a pitch profile consisting 100 mm base of coarse river sand, 100mm of fine river sand and 200mm top layer of supplied clay soil (final profile volume to be measured after optimum compaction at OMC during handing over). Supplied soil is to be dried and aggregated to the desired size and laid layer by layer in dry condition after compacting each layer of no more than 75 mm by plate vibrator in dry condition, lightly scarifying the top of the compacted layer before laying soil for the next layer.				
a	100mm thick coarse River Sand	89	Cum		
b	100mm thick fine River Sand	89	Cum		
c	200mm thick Black Clay	148	Cum		
d	Grassing with Selection no. 1	590	Sqm		
<b>6</b>	Preparation and maintenance of cricket pitch (until the pitch is playable) including time to time rolling, watering, grassing and grass cutting as pe1r requirement	1,333	sqm		

**NAME OF Work :- O&M OF CRICKET GROUND PITCHES FOR 2 YEAR  
AT CRICKET STADIUM CHONP, JAIPUR**

Material Description	Unit	Nos.	Rate In Rs	Amount
<b>O&amp;M for Ground of 2 years</b>				
<p>Operation &amp; Maintenance of Ground &amp; Pitches of main ply field &amp; Practice area</p> <p>(a). Minimum 5 persons to be employed for grass cutting, rolling , operating pop-up system as per requirement, spreading of fertilizers, insecticides Pesticides etc and other necessary works to make sure optimum growth of grass</p> <p>(b). Deploying suitable Equipments and machinery including fuel at your own cost required for regular and good maintenance of Cricket Ground and Pitches with following  1 Roller – Manual (250kg and 500kg)  2Machined Roller – 1 Tone , 2 tone and 500kg )  3 Pitch Grass Cutting Machine  4 Outfield Grass Cutting Machine  Super Sopper etc</p> <p>(c). One Pitch Curator approved by BCCI should also visit the ground as and when required during maintenance / during BCCI approved Matches /Once in a month for inspecting &amp; enshuring regular maintenance of ground &amp; Pitches</p>	Per month	24 months Month		

**Total Part -(A)- Rs .....**

Note - Qty during execution of work may vary as per ground size

Signature of Contractor

M/S .....

**Part - (B) SUB-SURFACE VACUUM POWERED DRAINAGE & AERATION SYSTEM & its O& M**

Sl. No.	Item Description	Quantity	Units	Rate (Rs.)	Total Amount
1	Excavating trenches of required width and depth for pipes including excavation for sockets, and dressing of sides, ramming of bottoms	3,928	Mtrs.		
2	Providing and laying double wall corrugated (DWC) high density polythene (HDPE) perforated pipe (SN 8) with perforation of required size in 180 degree, including all fittings like end cap, reducer, Y-junction, Tjunction etc. & jointing all as per direction of Engineer-in-charge : 150mm ID, complete as per requirement.	3,060	Mtrs.		
3	Providing and laying double wall corrugated (DWC) high density polythene (HDPE) perforated pipe (SN 8) with perforation of required size in 180 degree, as per direction of Engineer-in-charge :300mm ID, complete as per requirement.	415	Mtrs.		
4	Providing and laying of 300mm to 150mm Yjunction with 45 and 75 degree with complete as per requirement and as per direction of Engineer-in-charge : 300mm x 150mm ID.	71	Nos		
5	Providing and laying of 150mm End Cap with complete as per requirement and as per direction of Engineer-in-charge	143	Nos		
6	Providing and laying of 300mm End Cap with complete as per requirement and as per direction of Engineer-in-charge	13	Nos		
7	Providing and laying double wall corrugated (DWC) high density polythene (HDPE) perforated pipe (SN 8) with perforation of required size in 30 degree with complete as per requirement and as per direction of Engineer-in-charge : 400mm ID.	227	Mtrs.		
8	Providing and laying double wall corrugated (DWC) high density polythene (HDPE) perforated pipe (SN 8) with perforation of required size in 30 degree with complete as per requirement and as per direction of Engineer-in-charge : 600mm ID.	227	Mtrs.		
9	Providing and laying double wall corrugated (DWC) high density polythene (HDPE) Nonperforated pipe (SN 8) with as per requirement and as per direction of Engineer-in-charge : 800mm ID.	25	Mtrs.		
10	Providing and laying of 400mm x300mm and 600mm x 300mm T' joint including complete as per requirement and as per direction of Engineer-in-charge	12	Nos		

11	Providing and laying of 600mm x 450mm Reducer including complete as per requirement and as per direction of Engineer-in-charge	2	Nos		
	<b>Kerb Around the Field</b>				

Sl. No.	Item Description	Quantity	Units	Rate (Rs.)	Total Amount
12	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil.	83	cum		
13	Centering and shuttering including strutting in foundation	277	Sqm		
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size	18	Cum		
15	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in : Cement mortar 1:4 (1cement : 4 coarse sand)	69	Cum		
16	Cement plaster 1:4 (1 cement: 3 coarse sand) finished with a floating coat of neat cement : 12mm cement plaster	347	Sqm		

	<b>Air Water Separator</b>				
17	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil.	52	Each		
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size	2	Cum		
19	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	2,500	Kg		

20	Centering and shuttering including strutting, propping etc. and removal of form for all heights : in any size of wall, slab, beam, column, raft etc.	200	Sqm		
21	Cement concrete ratio of 1:1.5:3 (1 cement : 1.5 coarse sand :3 graded stone aggregate)	15	cum		
22	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement : 15 mm cement plaster	75	Sqm		
23	Providing S.S.manhole including Frame with diameter of 950mm with required foot rests including fixing in water tank as per direction of Engineer-in-charge design.	2	Each		

**Part - SUB-SURFACE VACUUM POWERED DRAINAGE & AERATION SYSTEM**

24	<p>The features of the sub-surface vacuum powered drainage &amp; aeration system control should be, measure temperature, salinity &amp; moisture at two depths per sensor location; data is transmitted via radio to the turf manager's office; provides alarms &amp; alert when parameters are exceeded; can be remotely monitored and controlled from internet or mobile. The sub-surface vacuum powered drainage &amp; aeration system should be comprising of the following:</p> <ul style="list-style-type: none"> <li>a) Variable Frequency Drive (VFD) Motor Control</li> <li>b) Programmable Logic Control (PLC)</li> <li>c) Barometric damper</li> <li>d) Transition Coupler – Connects sub-surface vacuum powered drainage &amp; aeration system Pipe</li> <li>e) Intake/Exhaust Louvers</li> <li>f) Intake/Exhaust Plenum</li> <li>g) Field Aeration Fan</li> <li>h) Drive Motor</li> <li>i) Air Flow Reversing Valve</li> <li>j) Air Compressor</li> <li>k) Air Dryer</li> <li>l) Control Panel with Local manual controls</li> <li>m) In Room Ducting</li> <li>n) Ducting from sub-surface vacuum powered drainage &amp; aeration system room to Intake/Exhaust Location (Up to 30ft)</li> <li>o) Float Switches Located Inside WaterSeparator</li> <li>p) All Skids and Stands Required</li> <li>q) Engineering and Installation Drawings</li> <li>r) Field Sensors</li> <li>s) Assembling, Testing, Commissioning</li> <li>t) 15 days training will be provided to the RCA nominated operator post installation of the sub-surface vacuum powered drainage and aeration system</li> <li>u) Free remote access assistance will be provided to RCA</li> <li>v) Online refresher training to be provided on need basis from the manufacturer Complete in all respect</li> </ul> <p><b>Note :</b> If there is any additional area then rate per sqm will be derived based on the rate quoted against this item.</p>	1	set		
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O& M OF THE SUB-SURFACE VACUUM POWERED DRAINAGE & AERATION SYSTEM					
25	Operating and Maintaining installed Sub Surface Vacuum powered drainage & Aeration system for 2 years complete in all respect so that it is always available in running condition by deploying sufficient staff and technician	1	set		
<b>TOTAL - Part -(B)</b>					

Signature & Seal of Agency

Name :

Designation

Mobile no:

mail address