



MADHYA PRADESH CRICKET ASSOCIATION

Holkar Stadium, Race Course Road, Indore (Madhya Pradesh, India)

Email : infra@mpcaonline.com

TENDER DOCUMENT

FOR

**LAND-LEVELLING/DRESSING/ FIELD IMPROVEMENT/ CONSTRUCTION OF OUTFEILD & PITCH
BLOCK INCLUDING TURF PLANTATION FOR MPCA CRICKET GROUND**

AT

**VILLAGE BHATI, ETORA ROAD
REWA (MP)**

SPECIFICATIONS, TENDER DETAILS & BILL OF QUANTITY

ISSUED BY

HON. SECRETARY

MADHYA PRADESH CRICKET ASSOCIATION

HOLKAR STADIUM, RACE COURSE ROAD, INDORE – 452 003 (M.P.)

Tender document Charges: Rs. 5000/- + Service Tax



MADHYA PRADESH CRICKET ASSOCIATION

Holkar Stadium, Race Course Road, Indore (Madhya Pradesh, India)

Email : infra@mpcaonline.com

NOTICE INVITING THE TENDER

From: Hon. Secretary
Madhya Pradesh Cricket Association
Holkar Stadium, Race Course Road
INDORE – 452 003 (M.P.) INDIA

To: -----

On behalf of the MADHYA PRADESH CRICKET ASSOCIATION (also referred as the Contracting Authority), sealed item rate tenders are invited from the reputed firms/ contractors engaged in this field for the work of Leveling/ Dressing/ Field improvement /construction of outfield & pitch block including turf plantation for Cricket Ground at Village Bhati. Etor Road,REWA (MP) for Madhya Pradesh Cricket Association.

The blank tender copies, specifications and tender conditions will be available at the MPCA office, Indore as per the details mentioned in the data sheet.

The tender forms duly completed in all respects and sealed should be deposited in the office of the MPCA as per the details mentioned in the data sheet

Madhya Pradesh Cricket Association reserves the right to reject the lowest, any or all tenders without assigning any reason thereof.

The tenderer should fill the rates, both in figures as well as in words in ink in English. Any discrepancy or inaccuracy thereof may hold the tender liable for rejection.

Tender documents are required to be signed including the general conditions, specifications etc. as laid down and incorporate in the tender form. Tenderers are also presumed to have inspected the site of works, the access thereto, various structures, trees, soil conditions, space availability, etc. at site, availability of water and power, nearness to an important running road and any other conditions thereof.

ISSUED BY :

HON. SECRETARY

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HOLKAR STADIUM, RACE COURSE ROAD, INDORE (MADHYA PRADESH, INDIA)



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ELIGIBILITY CRITERIA FOR THE TENDERERS:

- While submitting the tender, the tenderer shall deposit EMD of Rs. 2, 00,000.00 (Rs. Two Lac only) in the form of DD in the favor of 'M. P. Cricket Association' payable at Indore, in case of the tenderer who is allotted the work same shall be converted to Security Deposited till completion of the project.
- The tenderer should have an experience in sports turf ground development preferably cricket grounds / Sports infrastructure Development and field work etc since 2009 and should have necessarily in last 4 years (2015-16, 2016-17, 2017-18 and 2018-19) done at least 03 (THREE) Cricket Grounds used for domestic matches.
- The tenderer preferably associate with State cricket association Curator or BCCI certified Curator.
- The tenderer should have completed relevant construction and field development work for average annual receipt amount of Rs. 60 lac (Rs. Sixty Lac) /each year during last 3 years (2016-17, 2017-18, 2018-19) (certificate/proof required)
- The tenderer should preferably have valid GST Registration & P.F. /ESI Registration. (Proof to be attached).
- The tenderer should preferably have been accustomed of working at REWA or surrounding region.

1. DATA SHEET

1	WORK	LAND-LEVELLING/DRESSING/FIELD IMPROVEMENT / CONSTRUCTION OF OUTFIELD & PITCH BLOCK INCLUDING TURF PLANTATION FOR MPCA CRICKET GROUND AT VILLAGE BHATI, ETORA ROAD,REWA.
2	CONTRACTING AUTHORITY	HON. SECRETARY, MPCA
3	ADDRESS OF THE CONTRACTING AUTHORITY	MADHYA PRADESH CRICKET ASSOCIATION, HOLKAR STDAIUM, RACE COURSE ROAD, INDORE 452 003 TEL : 0731 2543602 EMAIL : infra@mpcaonline.com
4	AVAILABILITY OF EOI DOCUMENT AT MPCA OFFIECE-	FROM : 05.04.2019 (1:00 PM) TO : 11.04.2019 (up to 7.00 PM)
5	ADDRESS FOR BID SUBMISSION	MADHYA PRADESH CRICKET ASSOCIATION, HOLKAR STDAIUM, RACE COURSE ROAD, INDORE 452 003 , TEL : 0731 2543602
6	LAST DATE FOR SUBMISSION OF PROPOSALS AT MPCA OFFICE	17.04.2019 BY 12.00 PM
7	FOR ANY ASSISTANCE FROM CONTRACTING AUTHORITY, PL CONTACT	SHRI SHRAVAN GUPTA- CHAIRMAN INFRA STRUCTURE (9893277727) OR MR. ASHISH JAISWAL (09630042574)



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2. **LIST OF OWNERSHIP OF MACHINERY** Available with tenderer – As per **ANNEXURE III.**
3. **SCOPE OF WORK-** As per **ANNEXURE IV.**
4. **TECHNICAL SPECIFICATION** for outfield, pitch block construction and turf plantation- As per **ANNEXURE V.**
5. **SURVEY & TEST REPORTS-** As per **ANNEXURE VI.**
6. **DRAWINGS** – SECTION FOR OUTFIELD, PITCH BLOCK & RAIN WATER & TV CABLE LINE - As per **ANNEXURE VII.**
7. **GENERAL TERMS & CONDITIONS-**

I. **Type of Contract**

The Contract shall be an item-rate contract. The tenderer shall be paid for the actual quantity of work done, as measured at site, at the rates quoted in the Contract Bills; mode of measurements shall be as per BOQ.

II. **Schedule of Quantities**

The schedule of Quantities given in the Contract Bill is provisional and is meant to indicate the intent of the work and to provide a uniform basis for tendering. The Contracting Authority reserves the right to increase or decrease any of the quantities or to totally omit any item of work and the tenderer shall not claim any extras or damages on these grounds. Any error in description or in quantity or omission of items from the Contract Bill shall not vitiate this Contract but shall be treated as a variation.

III. **Contract Drawings**

In general the Drawings shall indicate dimensions, position and type of construction; the Specifications shall indicate the qualities and the methods and the Bill of Quantities shall indicate the Quantum and the rate for each item of work. Any work indicated on the Drawings and not mentioned in The Specification or vice versa shall be furnished as though fully set forth in both. Work not Detailed, called for marked or specified shall be the same as similar parts that are detailed, marked or Specified. The tenderer's work shall not deviate from the Drawings and the Specifications.

IV. **Progress Chart**

The tenderer shall prepare progress charts and submit the same for approval of the MPCA Authority/Engineer/Architect for his record within 04 (four) days of the Award of the Contract. The chart shall indicate the expected date of commencement and completion of each of the items of the work.

V. **Taxes**

The tenderer shall add to the amount of his tender the amount of all prevailing taxes, any payable and it shall be assumed that his rates cover for all taxes and duties and no claim on this account will be entertained.

VI. **Licenses, Permits, Royalty etc for Materials under Government control**

Licenses and Permits for any materials under Government control shall be obtained by the tenderer through the collaboration and help of the Contracting Authority/ Architect, the tenderer shall include in his tender all transport charges and other expenses likely to be incurred to bring the materials to the Site(Copy to be furnished).

VII. **Water and Electricity for construction**

Water and Electricity shall be in tendrer's scope on their cost only and MPCA shall not provide same at site.



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VIII. **Materials and Workmanship**

All materials and workmanship shall be as per the relevant code of I.S.I Specification and BCCI / ICC approved norms and type and the tenderer shall immediately remove from the works any material and/or workmanship which in the opinion of the MPCA Authority/Engineer/Architect are defective or unsuitable and shall substitute proper materials and/or workmanship at his own cost. The term approval used in connection with this contract shall mean the approval of the Architect.

IX. **Injury to Persons and property of Contracting Authority & Insurance**

The tenderer has to arrange for the complete safety of the persons working for project and the users of the grounds. The tenderer shall indemnify the Contracting Authority against any liability, loss, claim or proceedings whatsoever arising under any statute or at common law in respect of any personal injury to or the death of any person whomsoever arising out of or in the course of or caused by the carrying out of the works, unless due to any act or neglect of the concerned person.

From the Starting Date until the date of the Defects Certificate is issued, the tenderer shall insure itself against liability for death, injury or illness of tenderer's Personnel. For employees of contractor, this obligation may be satisfied by ensuring that the tenderer maintains the insurance. The tenderer shall ensure that this insurance includes a provision that indemnifies the Employer against any liability for which the tenderer would be entitled to an indemnity, including costs, charges and expenses.

X. **Cleaning**

The tenderer shall properly clean the playfield and other items as it progresses and shall remove all rubbish and debris from the site from time to time as is necessary and as directed. On completion the tenderer shall ensure that the premises and/or site are cleaned surplus and materials debris, sheds etc.

XI. **TIME OF COMPLETION OF WORK**

The entire work as per the specification and quantities at site, including cleaning and handing over the site shall be completed **WITHIN FORTY FIVE DAYS (45)/ 1.5 MONTHS** from the date of issue of the Work Order/LOI/ Agreement by CONTRACTING AUTHORITY as per the following schedule –

- a. For Outfield and pitch block construction – 30 days, planning from mid May 2019 onwards.
- b. For Grass plantation for both Outfield and pitch block construction areas- 15 days, planning for mid June 2019 after 2-3 rain showers and **completion within next 15 days.**

XII. **Penalty**

Any delays from tenderer side, beyond 7 days of schedule as above from the agreed schedule, shall attract penalty at the rate of 1.0 % of total work value per week, subject to a maximum of 7.5% of total order value.

XIII. **GUARANTEE IN DLP PERIOD**

This is an important and integral part of the tender. The tenderer has to provide Comprehensive Guarantee except due to playing for the maintenance of the Levels of the ground, related requirements of the turf density filling work of undulation which may be due to natural/ seasonal or due to contraction or expansion etc reasons for a DLP period of 1 year from the completion of the work.

During this period, the tenderer has to inspect the Ground every quarter or as and when required and the requirement of any maintenance / repairing / repainting should be completed within a period of 7days from such inspection.

8. **PAYMENT SCHEDULE**

9.1. No Mobilization advance shall be paid to the tenderer.



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9.2. Tenderer can claim 70 % of cost of material made available at site subject to invoice and certification of material at site by MPCA engineer, which shall be paid within 8-10 days after receipt of the certified invoice copy. This facility can be available for 2 times during the project. In case of material required royalty etc. copy to be furnished.

9.3. There shall be 02 Running bill + 01 final bill, RA Bill shall be released to each of 70 % payment before certification within 7-8 days and after certified quantity during the ongoing work balance shall be payable.

9.4. Final bill shall be payable within 30 days of completion of work and joint measurements and duly certified by CONTRACTING AUTHORITY.

9.5. **Retention money:** From the certified payments, 10 % of total contract value shall be deducted as retention money from each bill and 5 % shall be paid back after completion of the period of 12 months and remaining 5 % after 24 months from settlement of the final bill.

9.6. **Security deposit:** While signing the contract, EMD Rs. 2, 00,000.00 (Rs. Two Lac only) with the contracting authority, shall be converted in to the security deposit and shall be return the same after completion of work in all respect and against BCCI Curator/ MPCA authority's certification.

9. METHOD OF SELECTION, NEGOTIATION AND OTHER RIGHTS RETAINED BY THE CONTRACTING AUTHORITY:

- i. The offers shall be scrutinized as per the 'Quality and Cost Based Selection' pattern decided by the contracting authority.
- ii. However, CONTRACTING AUTHORITY reserves the right to reject any or all the tenders with or without any negotiations, without assigning any reasons thereof.
- iii. Reject or accept any application, cancel the tender process, and reject all applications;
- iv. Amend the scope and value of any contracts tendered under this project. In such an event, tender will only be invited to submit needful documents / offers for the revised requirements;
- v. Contracting Authority shall not be liable for any such actions and shall be under no obligation to inform the tenderer of the grounds for such actions.
- vi. If deemed fit, CONTRACTING AUTHORITY may call any or all the tenderer who have participated in the tender for further negotiation of rates or any of the conditions.

10. SUBMISSION OF TENDER :

1. The tenderer shall submit the documents in two separate envelopes marked as

ENVELOPE 'A' - TECHNICAL SPECIFICATION AS PER ANNEXURE I

AND

ENVELOPE 'B' - QUANTITIES & PRICES AS PER ANNEXURE II

2. THESE TWO ENVELOPES SHALL BE PACKED IN ONE COVER ENVELOPE ADDRESSED AS UNDER –



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HON. SECRETARY - MADHYA PRADESH CRICKET ASSOCIATION
HOLKAR STADIUM, RACE COURSE ROAD, INDORE 452 003

THE COVER ENVELOPE SHOULD MENTION 'TENDER FOR- LAND-LEVELLING/DRESSING/FIELD IMPROVEMENT / CONSTRUCTION OF OUTFEILD & PITCH BLOCK INCLUDING TURF PLANTATION FOR CRICKET GROUND FOR MPCA AT VILLAGE BHATI, ETORA ROAD, REWA.

ALL PAGES / ANNEXURE / DOCUMENTS ETC. SHOULD BE INITIALED BY THE APPROPRIATE AUTHORITY. THE DULY COMPLETED SUBMISSION SHOULD BE DEPOSITED AT THE OFFICE OF THE CONTRACTING AUTHORITY IN PERSON / POST / COURIER AS PER THE STIPULATED DATE / TIME MENTIONED IN THE DATA SHEET.

ISSUED BY :

HON. SECRETARY

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HOLKAR STADIUM, RACE COURSE ROAD, INDORE (MADHYA PRADESH, INDIA)



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ANNEXURE I

TO BE SEALED IN ENVELOPE MARKED AS 'A – TECHNICAL SPECIFICATION' ON THE LETTER HEAD OF THE TENDERER

TENDER FORM

From: -----

To: Hon. Secretary
Madhya Pradesh Cricket Association
Holkar Stadium, Race Course Road
INDORE – 452 003 (M.P.) INDIA

Dear Sirs,

This has reference to the Notice Inviting Tender for the work of Leveling/ Dressing/ Field improvement /construction of outfield & pitch block including turf plantation for Cricket Ground for Madhya Pradesh Cricket Association at Village Bhati, Etor Road, REWA.

I/We have received the Tender Documents in details with Bill of Quantities containing Tender documents.

I/We hereby offer to execute the works under contract at the respective rates mentioned in the schedule of quantities herein attached.

I/We have examined the specification and BOQ and read the general Conditions of contract and specifications and confirm herewith that I/we have inspected the site of works, access to the works and local prevailing conditions.

I/we agree to complete the whole of the works within the stipulated time of completion of **45 Days** as mention in the tender after the commencement of works as per the work order if issued to us.

I/We do hereby agree that this work of Painting shall be as per the guidelines and specifications followed in P.W.D. SOR for Building work in force from 2012 and issued by E-IN-C. M.P. PWD. Bhopal, with all the latest amendments.

Yours truly

(Signature & Seal of the tenderer)

Enclosure:

- DD of EMD Rs. 2, 00,000.00 (Rs. Two Lac only) in the favor of 'M. P. Cricket Association' payable at Indore
- CA certificate copy of the accounts statement to confirm the annual receipts as per the eligibility criteria.
- Self attested photocopy of the GST Registration of the firm,
- Self attested photocopy of the P.F. Registration.
- Self attested photocopy of the completion certificate /work orders etc. towards works executed in last 4(four) years as per the eligibility criteria.
- Self attested photocopy of the certificate/ confirmation letter from the parties (for whom tenderer have executed similar work earlier) towards satisfactory performance of tendererr firm.
-



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ANNEXURE II

TO BE SEALED IN ENVELOPE MARKED AS 'B - QUANTITIES & PRICES'.

ESTIMATE FOR Leveling/ Dressing/ Field improvement /construction of outfield & pitch block including turf plantation for Cricket Ground for Madhya Pradesh Cricket Association at Village Bhati, Etor Road, REWA.

A LAND-LEVELLING/DRESSING/ FIELD IMPROVEMENT/ CONSTRUCTION OF OUTFIELD					
SR	PARTICULERS	COMPECTED QTY - CUM	UNIT	RATE	AMOUNT
1	Excavation for Ground -600 MM : The work comprises of excavating the ground to the required depth as per the survey layout plan and requirements of the MPCA, reconstructing the same within the specified time with the treatment as per the specifications and levels given in the enclosed drawing and dressing the excavated earth as per the directions and levels. - AREA -17663 SQM	8831	CUM		
2	Cutting for Ground 1000 MM : The work comprises of excavating the ground to the required depth as per the survey layout plan and requirements of the MPCA, reconstructing the same within the specified time with the treatment as per the specifications and levels given in the enclosed drawing and dressing the excavated earth as per the directions and levels. - AREA -17662	8831	CUM		
3	Filling available excavated earth---- Filling available excavated earth: The excavated soil is to be laid in the ground to maintain the desired levels and dressing the top levels. The item shall be executed with the mechanical equipments like JCB or Pock lain machine in line and grade according to the specific slope and leveling given by the architects or MPCA authority. The surface of excavated ground shall be prepared by loosening the earth and thereof consolidating and compacting with the vibratory roller or compactor capacity of 8-10 tonne and removing the foreign materials including maintaining necessary slope.	12364	CUM		
4	Sandy loom soil 8" thick 200MM : first 4" layer than 2" x 2 layers each 4" & 2" layer 4" by vibro roller and next layers by plate vibrator first 4" layer req. compaction by vibro roller in dry and wet form and next layer req.in 2" only statics rolling in form of layer by plate vibrator.	4945	CUM		



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5	Pitch block Rain water drain line: Supply & laying 110 mm dai PVC/HDPE perforated pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA PVC Pipe inverted slotted covered with Geo fabric cloth (underneath) around the Pitch Square with a gradient of 1:100 Feet and connected to the main storm water Drainage system through 150 mm dai PVC/HDPE plain pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA (perforation at half of the pipe at top level), wrapped with geo-fabric cloth, covered by stone granules, sand etc and at any one direction along with the desired slope ratio. Connected with boundary storm water drain line as per the guideline provided by the BCCI curator.Accessories required for the above work – 6/8 KG PVC REDUCER 6" TO 4", 6 KG PVC BEND 6" TO 6" , 6 KG PVC TEE 6" TO 4" , MAKE - ASTRAL/JAIN IRRIGATION/KASTA & PVC ADHESIVE, END CAPS 4" AND 6" FOR CLOSING THE PIPE AT ENDS.Shall be connect with main drain line, root of the the drain line will be opposite of tv cable line.	95	RM		
6	Pitch block Rain water drain line: Supply & laying 150 mm dai PVC/HDPE Plain pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA (RATE DIFFERENCE FOR 4" AND 6" PIPE ONLY)	75	RM		
7	Grass plantation for outfield: Tiff way 419 (Bermuda), already using at Indore/Puna/Jaipur/Nagpur etc. dark green shade, fine textured, consistent and uniform growth, free from any weeds, impurity and such other contamination.Grafting roots by re-plantation, details as mention in the scope of work. Mixing required in the top layer of soil with the following fertilizers: a)Nimkhali powder b) Boi –fertilizers as recommended by the curator Washing grass by clean water Treatment by holmic acid or bawisteen	21195	SQM		
	TOTAL COST				
	GST @18%				
	TOTAL ESTIMATE FOR land leveling+ outfield + grass plantation				



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MAIN CRICKET PITCH BLOCK, SIZES 82 FT X 100 FT BLOCK FOR (07 NOS TURF WICKETS)					
SR	PARTICULARS	COMPECTED QTY - CUM	UNIT	RATE	AMOUNT
1	Earth Excavation BY MACHINARY JCB/ EXCAVATOR , size 82 ft x 100 ft x 1' depthH (NOS OF PITCHES =07 nos)	314.00	CUM		
2	Anti- termite Treatment complete for pitch block area 100 FT X 100 FT	762.00	SQM		
3	Pitch Construction 1.st Layer Supply and Laying Core sand 2" Layering as per BCCI Norms (as per approved sample) supply of all labour, also includes dressing leveling of trench 82' X 100' '	50.00	CUM		
4	2nd layer 4" BRICK LAYER with 1" course sand filling	36937	NOS		
5	Pitch Construction 3rd Layer Supply and Laying Core sand 2" Layering as per BCCI Norms (as per approved sample) supply of all labour, also includes dressing leveling of trench 82' X 100' '	45.00	CUM		
6	Pitch Construction 4th Layer- For making pitch supply & laying 4" dry and wet compaction equally from bottom of top level but in the form of Sandylome 4" OR 4" layer of fine loomy sand (silt +sand in equal ratio) (as per approved sample) including supply of labour with dressing & levelling of trench etc and also includes dressing leveling of trench as desired compaction and quantity is compacted @35 to 40 %	105.00	CUM		
7	Pitch Construction 5 th and final Layer- Supply & laying compacted layer by using palte vibrator of 8" good quality and approved Clay soil / Black cotton soil with compacted in 2" layers along with the using scratching by panja and using plate vibrator x 4 times (as per approved sample) with water spreay , labour with proper grinding & shorting , dressing & levelling of pitch as per desired level and compaction, quality of clay soil shall be-as per BCCI Norms supply of all labour, T & P etc andalso includes dressing leveling of trench	208.00	CUM		
	1. Have high clay contants 50-70%, Silt 5-20%, Fine sand -10-20%, Medium sand -0-10%, Course sand – 1%.				
	2. Have good hydraulic conductivity.				
	3. Swell and shrink well, cracks to allow water and air to penetrate deep and regenerate.				
	4. Retain moisture.				
	5. Encourage grass recovery.				
	6. PH Value shall be 7-8.				
	7. Crushing strength -0.8-1.6 MPA.				



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	8. Cracking pattern –breaking in to 2-5 pcs.				
	9. Linear shrinkage- 8-15 preferably 10				
	10. Dispersion – between 0 & 8				
	11. Sodium content-,<3%				
	12. Organic matter-<5%.				
8	Pitch Construction 4th Layer Complete Grassing by Bermuda Selection no.1 Grass as per BCCI Norms supply of all labour, T & P etc and also includes dressing leveling of the pitch block , area 100 ft x 100 ft	762.00	SQM		
9	Organic Manure Spreading, AREA 50 FT X 100 FT	762.00	SQM		
10	Supply & layingIsl 110 MM PVC Pipe inverted slotted with Geo Sheet (underneath) around the Pitch Square with a gradient of 1:100 Feet and connected to the main outward Drainage system through PVC / 4" dai Pvc perforated pipe (perforation at half of the pipe at top level), wrapped with geo-fabric cloth, covered by stone granules, sand etc and at any one direction along with the desired slope ratio. connected with boundary storm water drain line.	RO	RM		
11	Supply & layingIsl 150 MM PVC Pipe plain connect to main strom water line with pitch block rain water drain line. (COST DIFF FOR 4" AND 6")	RO	RM		
	TOTAL COST				
	GST @18%				
	TOTAL ESTIMATE FOR CRICKET PITCHES QUANTITY = 07 NOS				
	COST FOR EACH WICKET				

PRACTICE CRICKET PITCH BLOCK, SIZES 50 FT X 100 FT BLOCK FOR (8 NOS TURF WICKETS) AT 2 AREAS OF 5 +3 WICKETS RESPECTIVELY

SR	PARTICULERS	COMPECTED QTY - CUM	UNIT	RATE	AMOUNT
1	Earth Excavation BY MACHINARY JCB/ EXCAVATOR , size 50 ft x 100 ft x 1' depth (NOS OF PITCHES =05 no X 2 BLOCKS)	284.00	CUM		
2	Anti- termite Treatment complete for pitch block area 50 FT X 100 FT X 2 BLOCK	930.00	SQM		



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3	Pitch Construction 1.st Layer Supply and Laying Core sand 2" Layering as per BCCI Norms (as per approved sample) supply of all labour, also includes dressing leveling of trench 50' X 100' X 2 BLOCKS	52.00	CUM		
4	Pitch Construction 3rd Layer Supply and Laying Core sand 2" Layering as per BCCI Norms (as per approved sample) supply of all labour, also includes dressing leveling of trench 50' X 100' X 2 BLOCKS	80.00	CUM		
5	Pitch Construction 4th Layer- For making pitch supply & laying 4" dry and wet compaction equally from bottom of top level but in the form of Sandylome @ 90:10 RATIO, 4" OR 4" layer of fine loomy sand (silt +sand in equal ratio) (as per approved sample) including supply of labour with dressing & levelling of trench etc and also includes dressing leveling of trench as desired compaction and quantity is compacted @35 to 40 %	130.00	CUM		
6	Pitch Construction 5 th and final Layer- Supply & laying compacted layer by using palte vibrator of 8" good quality and approved Clay soil / Black cotton soil with compacted in 2" layers along with the using scratching by panja and using plate vibrator x 4 times (as per approved sample) with water spreay , labour with proper grinding & shorting , dressing & levelling of pitch as per desired level and compaction, quality of clay soil shall be-as per BCCI Norms supply of all labour, T & P etc andalso includes dressing leveling of trench	260.00	CUM		
	1. Have high clay contants 50-70%, Silt 5-20%, Fine sand -10-20%, Medium sand -0-10%, Course sand – 1%.				
	2. Have good hydraulic conductivity.				
	3. Swell and shrink well, cracks to allow water and air to penetrate deep and regenerate.				
	4. Retain moisture.				
	5. Encourage grass recovery.				
	6. PH Value shall be 7-8.				
	7. Crushing strength -0.8-1.6 MPA.				
	8. Cracking pattern –breaking in to 2-5 pcs.				
	9. Linear shrinkage- 8-15 preferably 10				
	10. Dispersion – between 0 & 8				
	11. Sodium content-,<3%				
	12. Organic matter-<5%.				



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7	Pitch Construction 4th Layer Complete Grassing by Bermuda Selection no.1 Grass as per BCCI Norms supply of all labour, T & P etc and also includes dressing leveling of the pitch block , area 50 ft x 100 ft X 2 BLOCKS	930.00	SQM		
	TOTAL COST				
	TAXES service tax@15% on 60%				
	TAXES vat @ 14% on 40%				
	TOTAL ESTIMATE FOR PRACTICE CRICKET PITCHES QUANTITY = 05 NOS X2NOS				
	COST FOR EACH WICKET				

GRAND TOTAL AMOUNT FOR A+B+C=



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ANNEXURE IV

SCOPE OF WORK-

1. OUTFIELD DEVELOPMENT-

- I. Excavation for Ground (if required): The work comprises of excavating the ground to the required depth as per the survey plan and requirements of the MPCA, reconstructing the same within the specified time with the treatment as per the specifications our Curator and levels given time to time and enclosed drawing and dressing the excavated earth as per the directions and levels.
- II. Filling available excavated earth (if required): The excavated soil is to be laid WITH COMPACTION @ MINIMUM 35 % in the ground to maintain the desired levels and dressing the top levels. The item shall be executed with the mechanical equipments like JCB or Pock lain machine in line and grading USING OF GRADER MACHINE according to the specific slope and leveling given by the Curator or MPCA authority. The surface of excavated ground shall be prepared by loosening the earth and thereof consolidating and compacting with the vibratory roller or compactor capacity of 8-10 tonne and removing the foreign materials including maintaining necessary slope.
- III. **For bottom layer of outfield every layer requires dry compaction in the ratio 1:1, i.e. 100 % compaction than wet compaction respectively.**
- IV. Top layer- (sandy loom soil-8" thick layer) @ 90:10 RATIO for sand and clay respectively in which first 4" layer req. compaction by vibro roller in dry and wet form and next layer req. only statics rolling in form of layer. Extra filling work with good earth: Good earth sandy loom shall be brought from the quarry near farms, approved by the MPCA on the basis of soil test, required composition, clay contents, PH value and other chemical contents required in the soil. The intending tenderers should inspect and examine the quarry/ farms and its surroundings and satisfy themselves before submitting their offer as to the means of access to the quarry etc, they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. All other expenses for execution of the item completely shall be borne by the tenderer. The excavated material from quarry will be initially being collected at quarry. it should be cleaned and free of foreign materials. The cleaned earth transported and deposited on the the ground. Earth shall be laid in the layers of 75mm thickness each layers. Each layer required in desired level and proper compaction. COMPACTION RATIO shall be 35 to 45 %.
Certain minerals, manures and chemicals are to be mixed in the top layer before spreading top layer of the good earth on the ground. All mixing of the above shall be done strictly in accordance with the instructions of the engineer/architect and the ground experts of MPCA.
The referred minerals, manures and chemicals shall be supplied by the contractor.
The referred minerals, manures and chemicals mixing in accordance with the instructions of the BCCI Curator and the ground experts of MPCA shall be done by the tenderer and cost and nothing extra shall be payable on account of the same.
- V. Pitch block Rain water drain line: Supply & laying 110 mm dai PVC/HDPE perforated pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA PVC Pipe inverted slotted covered with Geo fabric cloth (underneath) around the Pitch Square with a gradient of 1:100 Feet and connected to the main storm water Drainage system through 150 mm dai PVC/HDPE plain pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA (perforation at half of the pipe at top level), wrapped with geo-fabric cloth, covered by stone granules, sand etc and at any one direction along with the desired slope ratio. Connected with boundary storm water drain line as per the guideline provided by the BCCI curator. Accessories required for the above work – 6/8 KG PVC reducer 6" TO 4",



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6 KG PVC Bend 6" TO 6" , 6 KG PVC Tee 6" TO 4" , MAKE - ASTRAL/JAIN IRRIGATION/KASTA & PVC Adhesive, end Caps 4" AND 6" for closing the pipe at ends and it Shall be connect with main drain line, root of the the drain line will be opposite of tv cable line.

- VI. TV Cable line: As per details drawing provided for the same. Tv cable line required at both north and south end pavilion block as per the guideline provided by the BCCI curator. Tv cable line shall be opposite from pitch rain water line. Tv Cable chamber required at every main pitches (05 nos) @ 24" from wicket line.

2. GRASS PLANTATION DEVELOPMENT-

- I. Pre plantation preparation of the field by cleaning the area, de-weeding etc.
- II. Application of anti-termite treatment throughout the field of play and up to an area of 5 mtrs outside the earthen area.
- III. Pre plantation preparation by ensuring removal of stones pebbles etc. from the field of play.
- IV. Pre-plantation preparation of the pitch and outfield with proper watering, compaction by use of roller to maintain a uniform gradient outwards to the boundary line as per regular gradient.
- V. Application of manure mix suitable for healthy growth of the turf as per direction of consultant.
- VI. Supply of high quality grass Tiff way 419 (Bermuda), already used at Indore/Puna/Jaipur/Nagpur etc. dark green shade, fine textured, consistent and uniform growth, free from any weeds, impurity and such other contamination from a reliable source.
- VII. Laying of grass of the above variety with a desired density ratio as directed by the undersigned to ensure complete coverage of the pitch and ground as per the standard norms used for turf of pitch and cricket field.
- VIII. Deployment of necessary labour, machines / equipments for lying of grass.
- IX. Maintenance of the pitch and field post plantation for a period up to three months or 3 mowing attaining full density of grass whichever is later and to be confirmed by MPCA Curator.

3. POST-PLANTATION MAINTANANCE-

- i. The post-plantation maintenance should continue till a period of three months after plantation of the entire field of play is complete.
- ii. Maintenance of Playground Grass by appropriate de-weeding, application of manure, adequate Irrigation, suitable cycles of mowing, measured rolling for attaining proper levels and firmness.
- iii. If the surface area is uneven, a light top dressing to be done into low lying areas.
- iv. After the maintenance period or after achieving the full density of grass on the entire field of play, whichever is later, tenderer shall officially hand over the charge of the ground to the authority as directed by the undersigned.
- v. Tenderer shall arrange for all machinery, equipment required for plantation, mowing.
- vi. MPCA shall arrange for the water supply at one location on the site.



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- vii. Tenderer qualified staff should be deployed adequately so as to ascertain the quality of work at all times, tenderer shall submit a weekly report on the stages of completion of work along with on-site photographs.

Note: Layout shall be as per Master Plan of the International cricket Ground and before execution of the work at site approval for the marking at site is to be taken from MPCA authority.

FOR ANY ASSISTANCE FROM CONTRACTING AUTHORITY OR SOFT COPY OF DWG, PL CONTACT MR. ASHISH JAISWAL
(09630042574)



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ANNEXURE V

TECHNICAL SPECIFICATION for outfield, pitch block construction and turf plantation-

Sr. No.	Specifications	Requirements of the outfield and pitches					
DETAILS FOR OUTFIELD CONSTRUCTION:							
1.	Excavation:	Excavation required in natural ground 24"					
	Outer Boundary line circle dai	174 m/570 ft/190 yards					
	Radius of the outer Cricket boundary line	75 yards from center point of the center pitch.					
2.	Reference Levels:	Reference level need to be check with reference to plinth level of proposed building, top level of pitch for Ground outfield level and 30 yards level.					
3.	Slope:	Slope required 1: 100 for outfield					
4.	Soil cutting and filling:	Cutting and filling of soil shell be UNIFORM from top layer to bottom layer in the form of slice cut of equal depth/thickness however in slope/gradient type from base.					
4b	Material required for filling:	Bottom layer – available excavated soil as per contour					
		Top layer- 8" thick sandy loom soil layer					
4a	Section wise details for outfield:	Type of soil	thickness	Thickness of working layer	Scarifyin g	Roller capacity	Compaction ratio
	Bottom layer	available excavated soil	As per contour		each 4" layer	Rolling by 20-32 MT Vibro rollers up to vibro thrust 65 MT	Every 3 3/4" layer requires dry compaction in the ratio 1:1, i.e. 100 % compaction than wet compaction respectively.
	Top layer	sandy loom soil	8" thick	first 4" layer than 2" x 2 layers	each 4" & 2" layer	4" by vibro roller and next layers by plate vibrator	First 4" layer req. compaction by vibro roller in dry and wet form and next layer req.in 2" only statics rolling in form of layer by plate vibrator.
Note:- All type soil using for the construction of outfield and pitch block, requires test reports as per specification given by the BCCI curators / authority of MPCA.							
5.	Roller process:	Rolling by 20-32 MT Vibro rollers up to vibro thrust 65 MT in the layer form of 4" each layers in the form of dry and wet compaction as details given below.					
6.	Compaction required:	Dry and wet compaction equally from bottom of excavated area @ approx 4" equal layers along with the proper watering.					
6a	Rolling type:	For bottom layer of outfield every 3 3/4" layer requires dry compaction in the ratio 1:1, i.e. 100 % compaction than wet compaction respectively.					



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		Top layer- (sandy loom soil-8" thick layer) in which first 4" layer req. compaction by vibro roller in dry and wet form and next layer req. only statics rolling in form of layer.
6b	Scarifying of layers:	Scarifying process required after each 4" layer by using manual scarify tools. This process is essential for bottom to top layer.
7.	Section required for outfield:	Total = 24"
7a	Test requires for the materials from Govt. approved labs:	Sandy loom soil- clay /silt and sand contents percentages report requires.
7b	Water test	Ph value of water
8	Appearance of sandy loom soil:	Good quality of Red soil with the composition of 30% clay + 30% silts and remains 40 % sand. Compaction method as describe above.
9	PH value of good soil:	PH Value shall be 6.5 – 7.5.
10	Anti-termite treatment:	At bottom in the form of spreading of granules of recommended chemical diluted by water: As per described in the annexure below on page no 21 onwards.
11	Fertilizer :	Top layer mixing of granules in top 4" layer, details of fertilizer is : (specified during the execution of work due availability and up gradation) As per described in the annexure below on page no 21 onwards.

B	DETAILS FOR RAIN WATER LINE:	
1	Storm water drain line:	As per details drawing provided for the same.
		Rain water line required minimum 3 or more outlet point.
		Main drain line section size required minimum 675 mm (w) x 510 mm (h).
2	Pitch block Rain water drain line:	EXCAVATION MANUALLY WITH MAINTANING LINE AND LEVELS WITH SPECIAL SMALL TOOLS OF GARDING ,LAYING OF PERFORATED PIPE ALONGWITH THE WRAPPING OF GEO FABRIC CLOTH, WITH COMPACTION AS DESIRED AND DRESSING OF COMPLETE AREA
		Supply & laying 110 mm dai PVC/HDPE perforated pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA PVC Pipe inverted slotted covered with Geo fabric cloth (underneath) around the Pitch Square with a gradient of 1:100 Feet and connected to the main storm water Drainage system through 150 mm dai PVC/HDPE plain pipe CAPACITY 8 KG MAKE - ASTRAL/JAIN IRRIGATION/KASTA (perforation at half of the pipe at top level), wrapped with geo-fabric cloth, covered by stone granules, sand etc and at any one direction along with the desired slope ratio. Connected with boundary storm water drain line as per the guideline provided by the BCCI curator.
		Accessories required for the above work – 6/8 KG PVC REDUCER 6" TO 4", 6 KG PVC BEND 6" TO 6" , 6 KG PVC TEE 6" TO 4" , MAKE - ASTRAL/JAIN IRRIGATION/KASTA & PVC ADHESIVE, END CAPS 4" AND 6" FOR CLOSING THE PIPE AT ENDS.
3		Shall be connect with main drain line, root of the the drain line will be opposite of tv cable line.

C	DETAILS FOR TV CABLE PIPE LINE:	
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1	TV Cable line:	As per details drawing provided for the same.
		Tv cable line required at both north and south end pavilion block as per the guideline provided by the BCCI curator.
		Tv cable line shall be opposite from pitch rain water line.
		Tv Cable chamber required at every main pitches (05 nos) @ 24" from wicket line.

D	DETIALS FOR GRASS :	
1	Grass plantation for outfield:	Tiff way 419, already used at international stadium at Indore/Puna/Jaipur/Nagpur etc. dark green shade, fine textured, consistent and uniform growth, free from any weeds, impurity and such other contamination.
		Washing grass by clean water
		Treatment by holmic acid or bawisteen
1a	Selection of grass	By MPCA
1b	Process of grass plantation:	Grafting roots by re-plantation, details as mention in the scope of work.
2	Fertilizer treatments:	Mixing required in the top layer of soil with the following fertilizers: a)Nimkhali powder b) Boi –fertilizers as recommended by the curator

DETIALS FOR PITCH CONSTRUCTION: SIZE 82 FT X 100 FT , TOTAL -7 PITCHES		
	important	Pitch will be excavated after desired level of outfield and gradient is achieved.
	Details of pitches -	1) 7 pitches as per the regular type of pitches.
1.	Excavation:	Black Cotton soil excavation required 1'-6"
2.	Reference Levels:	Reference level need to be check with reference to Plinth/Road & boundary of the Ground outfield level.
3.	Slope:	Slope required 1:100
4.	Soil cutting and filling:	Cutting and filling of soil shell be done from top layer to bottom layer in the form of slope ratio@ as per specification.
5.	Roller capacity:	Layer need to rolling by the plate vibrator
6.	Compaction required by Plate vibrator:	Dry and wet compaction equally from bottom to top layers and with the help of the plat vibrator. The process shall be laying 2" washed core sand than 4" layer of brick with 1" sand gape filling, 3" course sand and filling, +4" fine loomy sand (silt +sand in equal ratio) soil with compacted in 2" layers along with the using scarifying tools (by panja) and using plate vibrator x 4 times.
7.	Section required for pitch:	Total excavation required= 18"
	Excavation	Actual excavation at site =18"
	Slope for water drain	At the bottom slope required 1:100 slope at one side.
	Drain arrangements	4" dai Pvc perforated pipe (perforation at half of the pipe at top level), wrapped with geo-fabric cloth, covered by stone granules, sand etc and connected with boundary storm water drain line.
		4" core sand washed (Black sand) with proper watering and compaction by water
		4" fine loamy sand soil and compacted layer by plate vibrator with the composition of 90 % fine sand and 10% clay.
		8" good quality and approved clay soil with compacted in 2" layers along with the



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		using scarifying by panja and using plate vibrator x 4 times.
7a	Test requires for the materials from Govt. approved labs:	All the above materials required for pitch construction should be tested from Govt. approved labs as per list of specifications and tests provided by the chief curator of MPCA.
8	Appearance of good quality clay soil:	Good quality of clay soil with the composition mention as above.
8a	Practice area wickets	Same process to be followed except Brick layer of 4" i.e. total depth shall be 4" reduce from main pitch.
9	PH value of good soil:	PH Value shall be 6.5 – 7.5.
10	Anti-termite treatment:	At bottom in the form of injection using liquid form of chemical diluted by water: As per described in the annexure below on page no 21 onwards.
11	Fertilizer :	Top layer mixing of granules in top 4" layer, details of fertilizer is : As per described in the annexure below on page no 21 onwards.

Schedule of Operations to be carried out on Cricket Outfield

1) **Neem Cake**

Use: Natural pure neem cake to be mixed with sand for Outfield application.

Estimate Quantity & Cost: 3mt

2) **Easygreen Mini**

Use: Imported German Brand complex NPK+++ fertilizer designed for Outfield -Homogenous granule size (1.0-2.5mm) - uniform growth of grass & beautiful turf colour

Application : Top Dressing @ 4g per sq.ft.

Estimate Quantity & Cost: 725kg

3) **Premise**

Use: Insecticide to control white ants (Termites) in ground

Application: Dissolve 5 Ltr in 2350 Ltr water & spray all over ground after Dethatching.

Estimate Quantity & Cost: 5 Ltr

4) **Agricare Rut-X1**

Use: Bio Root Harmon Technical & will help in development, formation & growing of new roots.

Application: Dissolve 30g Rut-X1 in 20 Litre of water & spray all over new grass planted. Repeat every week. Stop application after proper rooting is developed.

Estimate Quantity & Cost: 20 packs

5) **Humicare**

Use: Humicare is an imported Technical & rich source of Carbon & Humus matter in the soil. Humus matter is ideally sourced from Cow Dung Manure & is vital to improve soil media & make it suitable for root growth on Cricket Ground.

Application: Top Dress 20kg all over outfield evenly.

6) **Sulphanit :**

Use: This is an imported US Brand & provides Nitrogen in ammonical form & is ideal to use wherever Turf turns yellow due to nitrogen deficiency. Urea is not recommended of Turf, especially in winter time.



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Application : Top Dressing manually on Cricket Ground

Estimate Quantity & Cost: 200kg

7) Knite:

Use: Fully Water Soluble NK fertilizer, imported US Brand which provides Nitrogen & Potash, essential for growth & strength of Grass plant.

Application: Dissolve 10kg in 1000 Litres of water & spray first after Top Dressing.

Estimate Quantity & Cost: 10kg

8) Technova_2 – 1kg pack

Use: Imported US Brand which is meant to cure deficiency of micronutrients in Turf. Use of Micronutrients is very important in addition to NPK for proper growth of Turf, its health & strength.

Application: Dissolve 1kg in 1000 Litres solution of Knite & apply.

Estimate Quantity & Cost: 1kg

9) Ultimo – 1Ltr pack

Use: Insecticide to control Earthworm

Application: Dissolve 5 Ltr in 1500 Ltr water & spray all over ground after Dethatching.

Estimate Quantity & Cost: 5 Ltr

10) Decis100 – 1Ltr pack

Use: Insecticide to control ants & other insects in ground

Application: Dissolve 5 Ltr in 1500 Ltr water alongwith Ultimo & spray all over ground

Estimate Quantity & Cost: 5 Ltr

11) Vitanica P3 - 10Ltr pack

Use: Imported German Brand Kelp based NPK (5-15-10) liquid fertilizer enriched with naturally chelated micronutrients. This has three different groups of ingredients (stimulants, nutrients & fungicide) - This improves turf colour, root growth & vitality and protection & cure of diseases.

Application: Dissolve 20 Ltr in 1200 Litres of water & spray all over Outfield including Pitch area.

Estimate Quantity & Cost: 20Ltr

1. Application of Liquid NPK Fertilizers (**Vitanica P3 + Knite + Technova_2**)

This will be done every third day or weekly.

2. Earthworm, Termite & Ant control – **Ultimo, Decis100 & Premise** to be sprayed alternatively with Liquid Fertilizer application.

3. Application of **Agricare Rut-X1** is required wherever that is turf damage or new plantation for quick root development.

Additional issues specific to any Cricket Ground like weed control etc. will need additional time. The process and treatment shall be done in the presence and guidance of MPCA curator.

Schedule of Operations to be carried out on Cricket Pitch



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Cricket Pitch is vital for play & keeping it green is very important. Due to its typical ground structure & stress during play, there is little scope for proper natural growth. Use of artificial/chemical & inorganic fertilizers is not recommended as these tend to affect the Pitch structure.

1) **Clay** stored for Pitch in heaps may be treated with **Basamid** & covered with **Mulching Film** to make it free from any fungal infection & all typesweeds – Pre-Emergent.

Estimate Quantity:

Basamid 10kg

Mulching Film One Roll

2) **Premise**

Use: Insecticide to control white ants (Termites) in ground. Termite is not eradicated by using Chlorpyrifos due to gaps left behind in spraying application. Termite finds its safe passage between the gaps due to Chloro smell. Premise is smell free, WHO approved product which kills termite & very effective in its control in Turf.

Application: Dissolve 250ml in 120 litre of water & spray all over pitch area.

Estimate Quantity: 250ml

3) **Easygreen Mini**

Use: Imported German Brand complex NPK+++ fertilizer designed for use during Construction of Pitch - Homogenous granule size (1.0 - 2.5mm) - uniform growth of grass

Application : Top Dressing 50kg on entire Pitch Area of 10000 sq ft.

Estimate Quantity: 50kg

4) **Agricare Rut-X1**

Use: Bio Root Harmon Technical & will help in development, formation & growing of new roots.

Application: Dissolve 30g Rut-X1 in 20 Litre of water & spray all over new grass planted. Repeat every week. Stop application after proper rooting is developed.

Estimate Quantity & Cost: 20 packs

5) **Humicare**

Use: Humicare is an imported Technical & rich source of Carbon & Humus matter in the soil. Humus matter is vital to improve soil media & make it suitable for root growth on Cricket Pitch.

Application: Top Dress Use of One Pack of 250g Humicare is recommended per pitch

Estimate Quantity & Cost: 4kg

6) **Sulphanit :**

Use: This is an imported US Brand & provides Nitrogen in ammonical form & is ideal to use wherever Turf turns yellow due to nitrogen deficiency. Urea is not recommended of Turf, especially in winter time.

Application : Top Dressing 1kg manually on one Pitch

Estimate Quantity & Cost: 8kg

7) **Knite:**

Use: Fully Water Soluble NK fertilizer, imported US Brand which provides Nitrogen & Potash, essential for growth & strength of Grass plant.

Application: Dissolve 1kg in 100 Litres of water & spray first after Top Dressing.

Estimate Quantity & Cost: 1kg



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8) Technova_2:

Use: Imported US Brand which is meant to cure deficiency of micronutrients in Turf. Use of Micronutrients is very important in addition to NPK for proper growth of Turf, its health & strength.

Application: Dissolve 100g in 100 Litres solution of Knite & apply.

Estimate Quantity & Cost: 100g

9) Floranid Master Extra :

Use: Imported German Brand complex NPK+++ fertilizer designed for Pitches - Homogenous Fine size granule size (0.4 - 1mm)- growth of green grass on pitches & roots development.

Application: Top Dressing @ 4g per sq.ft.

Estimate Quantity & Cost: 50kg

10) Vitanica P3 :

Use: Imported German Brand Kelp based NPK (5-15-10) liquid fertilizer enriched with naturally chelated micronutrients. This has three different groups of ingredients (stimulants, nutrients & fungicide) - This improves turf colour, root growth & vitality and protection & cure of diseases.

Application: Dissolve 2 Ltr in 120 Litres of water & spray all over Pitch area.

Estimate Quantity & Cost: 2Ltr



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ANNEXURE VI

SURVEY & TEST REPORTS-

1. **SURVEY** - Total station / Dumpy level/ Leveling instruments required for the survey of the ground to achieve proper slop and gradient of the outfield, the survey work may required for 4-5 times during every stage of the work during leveling and dressing.
2. **TEST REPORTS-** All type soil using for the construction of outfield and pitch block, requires test reports as per specification given by the curators / authority of MPCA.
 - I. Classification of soil based on Grain sizes.
 - II. Sieve analysis for courser fraction and hydrometer analysis for finer friction.
 - III. Plasticity of soil including liquid limit & shrinkage limit.
 - IV. Physical properties of soil like clay contents, crushing strength, cracking pattern, linear shrinkage, Emerson & dispersion index to understand desirable characteristics of soil.
 - V. pH Value.
 - VI. Chemical properties of soil like chloride, sodium, potassium, calcium, magnesium, calcium, / magnesium ratio, cation exchange capacity, pH in CaCl₂, pH in water, etc. mineralogy of soil.

The above tests are mandatory and is to be done from any reputed laboratory only, tendrer shall be submit the copy of reports in hard copy.



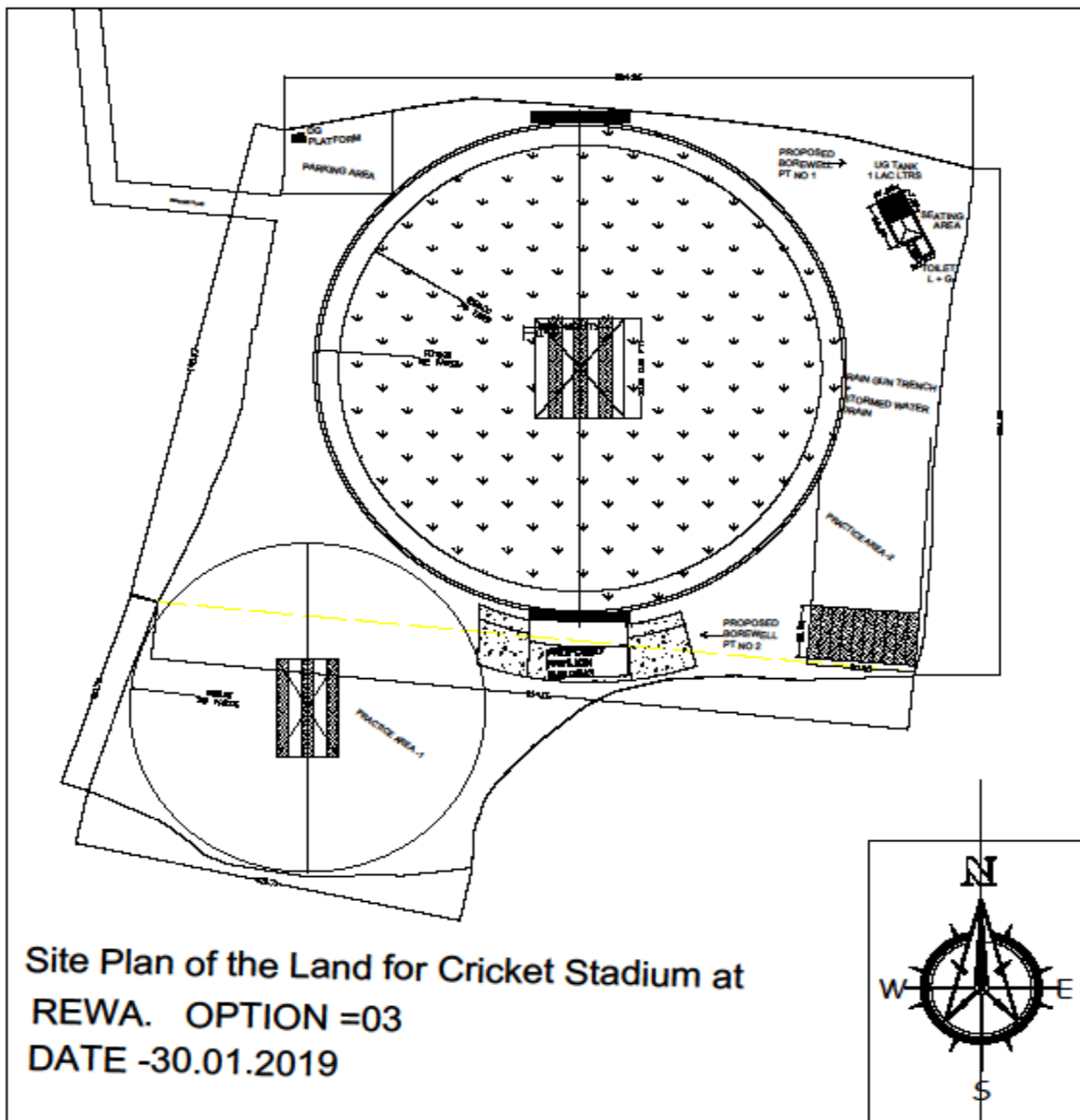
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ANNEXURE VI

DRAWING-OUTFIELD-SECTION





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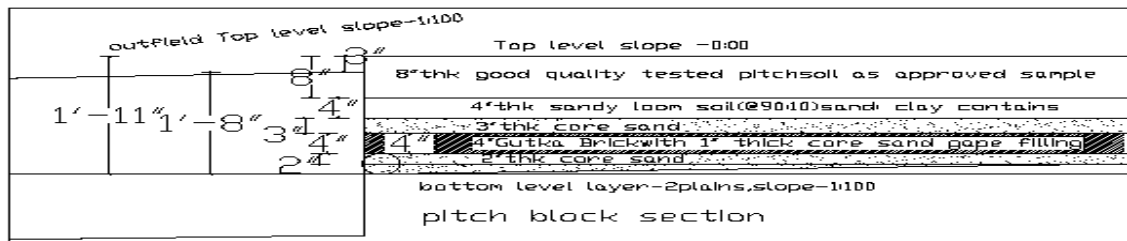
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DRAWING-OUTFIELD-SECTION-



DRAWINGS – PITCH BLOCK SECTION-



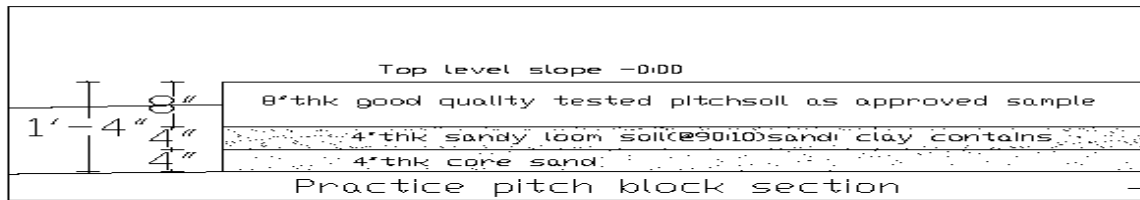


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DRAWINGS – PRACTICE PITCH BLOCK DETAILS -



Note= Drawing s showing only concept, and before execution working drawing shall be provided by the MPCA.

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