GOVERNMENT OF CHHATTISGARH

OFFICE OF THE SUPERINTENDING ENGINEER P.W.D.

BILASPUR CIRCLE BILASPUR

NOTICE INVITING BID ON TURN-KEY

N.I.T. NO. 2 9 6 0 / BILASPUR /B&R/ DATE 08.10.2014

SEALED TENDERS IN FORM "G" TURN KEY CONTRACT ARE INVITED IN 3-ENVELOPE SYSTEM FOR WORK MENTIONED BELOW ON TURN KEY BASIS AT STATE SPORT TRAINING CENTER BILASPUR CHHATTISGARH. FROM FIRMS OF REPUTE/LIMITED COMPANY /GLOBAL FIRMS/ JOINT VENTURE ALL APPROVED BY IAAF & FIFA WHO HAVE SUCCESSFULLY EXECUTED SIMILAR ONE WORK OF SYNTHETIC ATHELETIC TRACK APPROVED BY IAAF IN LAST 3 YEARS AND/OR CURRENT YEAR.

S.No.	Description of work	Estimated Cost (in lacs)	Earnest money to be deposited in shape of bank FDR	Last date & time of submission of bid documents	Time and date of opening of EMD and technical bid	Time allowed for completion (including first rainy season)	Tender document fees (Non refundable)
1	**(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.** **(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.** **(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.** **At State Sport Training Centre Bilaspur, Chhattisgarh**.	1223.23	Rs. 500000.00 (Rs. Five lac only) Pledged in favour of Executive Engineer PWD Div. No.-1 Bilaspur	28.10.2014 up to 17.30 Hours	29.10.2014 up to 15.00 Hours	9 (Nine) Months	Rs. 25000.00 shape of bank draft issued by schedule bank in favour of Executive Engineer PWD Bilaspur Division no. 1 Bilaspur

The blank tender documents and other details can be obtained from the Office of the Superintending Engineer, P.W.D. Bilaspur Circle Bilaspur (C.G.) Pin.-495001 (**Tel.No. 07752-250203 and Fax no.-07752- 236205** on any working day up to **27.10.2014** during office hour.

The **"tender Documents"** along with details of **"Earnest Money"** etc. shall be received in the Office of the Superintending Engineer, P.W.D. Bilaspur Circle Bilaspur (C.G.) up to 17:30 PM. on or before **28.10.2014** by Registered A/D or Speed Post. The documents received if late. due to any reason, whatsoever, shall not be entertained

The **"EMD/Technical Bid"** will be opened on **29.10.2014** in the Office of the Superintending Engineer, P.W.D. Bilaspur Circle Bilaspur (C.G.) in the presence of tenderers or their authorized representative who choose to remain present.

The date of opening of the Financial Bids of those tenders fulfilling the requirements will be announced on a separate date after evaluation by the committee.

For any other information's and relevant details or for visiting site of works, interested parties may contact Superintending Engineer, P.W.D. Bilaspur Circle Bilaspur (C.G.) & Executive Engineer, P.W.D. Division No.-1, Bilaspur (C.G.) During Office hours.

NOTE :- THE TENDER DOCUMENTS MAY BE SEEN ON CHHATTISGARH GOVT. WEBSITE www.cg.nic.in/www.cgstate.gov.in

Superintending Engineer
PWD, Bilaspur Circle Bilaspur
(C.G.)

GOVERNMENT OF CHHATTISGARH
PUBLIC WORKS DEPARTMENT

Bid Document for :-

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.

At State Sport Training Centre Bilaspur, Chhattisgarh.

(सदस्य)
मुख्य अभियंता (यो)
कार्या. प्रमुख अभियंता
लो.नि.वि., रायपुर

(सदस्य)
मुख्य अभियंता
लो.नि.वि., बिलासपुर
परिक्षेत्र, बिलासपुर

(सदस्य)
संयुक्त संचालक (वित्त)
कार्या. प्रमुख अभियंता
लो.नि.वि., रायपुर

(अध्यक्ष)
प्रमुख अभियंता
लोक निर्माण विभाग
रायपुर (छ.ग.)

OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT, BILASPUR CIRCLE BILASPUR (C.G.)

INDEX FOR BID DOCUMENT

Name of work :

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.

At State Sport Training Centre Bilaspur, Chhattisgarh.

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Certified that this Bid Form contains Pages 01 to 75

Issued by : _____

(Signature)

Superintending Engineer
PWD, Bilaspur Circle Bilaspur

OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT, BILASPUR CIRCLE BILASPUR (C.G.)

TECHNICAL BID DOCUMENT

Name of work

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.

At State Sport Training Centre Bilaspur, Chhattisgarh.

Sold to Sri/Smt/M/s _____

On payment of Rs. ...../-..... (Rs. ……)
Vide Money Receipt No ……Dated……..

Superintending Engineer
PWD, Bilaspur Circle Bilaspur

I undertake to abide by the terms and conditions as stipulated in the bid notice and conditions of contract.

Signature of the contractor

For Office Use only

1. Total No. of Corrections :
2. Total No. of Overwriting :
3. Total No. of Pages :
4. Earnest Money Deposit in shape of :
5. Copy of S.T.C.C. : Furnished/Not Furnished
6. Copy of I.T.C.C./PAN : Furnished/Not Furnished
7. Copy of EPF Regn. Certificate : Furnished/Not Furnished
8. Any other enclosure

Superintending Engineer
PWD, Bilaspur Circle Bilaspur

OFFICE OF THE SUPERINTENDING ENGINEER, PUBLIC WORKS DEPARTMENT, BILASPUR CIRCLE BILASPUR (C.G.)

BROAD INFORMATION OF BID

Name of work	:	**(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.** **(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.** **(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.** **At State Sport Training Centre Bilaspur, Chhattisgarh.**
Earnest Money Deposit	:	Rs. 5,00,000/- in shape of F.D.R./TDR in favour of Executive Engineer, Public works Department Bilaspur, Division No.-1 Bilaspur (C.G.)
Period of sale of Bid document	:	From 8.10.2014 **.....** **up** to 27.10.2014 **....., ...** 17:30 Hours
Last date and time for receipt of Bids	:	Date : 28.10.2014 **..... up to .....** 17:30 Hours by Registered Post/Speed Post
Time and Date of Opening of Bids	:	Technical bid Date 29.10.2014 **.....** at 15.00 Hours 10
Place of opening of Bids	:	Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.)
Officer Inviting Bid	:	Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.)

BROAD SCOPE OF WORK

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.
At State Sport Training Centre Bilaspur, Chhattisgarh.

The Broad scope of work shall include following but not limited to the operations enumerated below:-

A :- For Track Surface

(1) Leveling of proposed site up to 500 mm below finished level of adjoining synthetic hockey turf including filling of soil having CBR ≥ 5 and adequate slope for drainage.

(2) Preparation of drawing, design and other details required for the work and optaining formal approval from the competent authority submission of the same to the Engineer-in-Charge for getting his concurrence before actual execution of work.

(3) Construction of 8 lane 400 meter synthetic running track & 8 lane Warm up strip/ Running strip ("Full PUR" Type), confirming to the Standards and norms fixed by IAAF including required leveling of the ground with respect to surrounding structures and all operations and materials required for complete construction of running track in all respect i/c Sub base, Base, Synthetic track ("Full PUR" Type), duly approved by IAAF shall be used.

(4) Construction of grassy football ground including providing single key operated sprinkler system, drainage arrangements and other necessary requirements.

(5) The composition of pavement below the Synthetic surface and respective thickness of different layers shall be provided as per norms & to be get approved by Engineer-in-Charge. The work includes construction of sub grade, sub base, base and bituminous course; disposal of all debris and surplus material form site, including all material, labour, equipment.

(6) Providing and fixing field competition equipments :

(i) Long and Triple Jump facility

(ii) Water jump

(iii) Javelin Throw facility

(iv) Discus and Hammer throw facility

(v) Pole vault facility

(vi) Shot put facility

(vii) High jump facility

(viii) Finish line

(ix) Steeple chase

(7) So for the specification of pavement beneath Synthetic surface of track is concern the same shall confirm to the MORTH specification of road and bridge works (Fourth Revision).

(8) The scope of work includes construction of Sumpwell, Borewell (i/c providing pipe lines from source of water) Pump house, Sprinklar system, Complete Drainage system, Sand pit, Water pit, Installation of pumps, approved by Engineer-in-Charge.

(9) Tentative Plan and Drawing for development & Construction is enclosed. Other Details may be obtained from office of Executive Engineer, PWD, Division No.1, Bilaspur (C.G.)

(10) **Test and Trial**

(i) The scope of work also includes test of various construction material form approved laboratories and field tests during construction shall also be carried out as per norms and standards.

(ii) Contractor shall obtain approval from IAAF for type, material and quality of Synthetic turf prior to laying and submit copy of approval granted by IAAF to the Engineer-in-Charge. Contractor shall also furnish test results of construction materials and other test carried out during construction

Test of Track:-

1. Lab test for product identification and IAAF approval.

2. Field test to know quantity of the installed Track.

3. Installation of the synthetic Athletic track surface, (Full PUR type) including collection of sample at site and testing the same from IAAF accredited laboratory as specified by the committee.

4. Providing and laying of fully automatic single key operated sprinkler system.

5. Marking of playing area with all accessories as per IAAF class II certificate specification.

6. Providing 60 mm thick inter locking colored rubber polished concrete block on pathway.

7. Construction of 8 lane Synthetic warm up track/ running strip (Full PUR type) as per IAAF norms.

8. Any other work required to complete the work as described in scope of work as per IAAF norms.

9. Finally approved from IAAF as class II certificate & from office of sports and youth welfare department Raipur (C.G.).

10. Maintenance of pitch by specially designed machine for such purpose 4 times in a year for a period of 3 year form date of actual completion of work.

11. Provision of Chain link fencing as per Standered norms.

B. For Hockey Surface

1. Construction of sub-base , base course, Construction of drainage system, including all materials as per latest MORTH norms/ Latest IS codes/CPWD specification

2. Supply of material required for installation of Synthetic **(Poly ethylene)** Hockey surface including equipments/items required for installation i/c cost in situ sock pad .

3. The pitch should have class - 1 approval from FIH (Hocky Federation Of India) so that it can be used for global level competition.

4. Top of "D" & other marking / lines should be tufted with carpet.

5. Turf should be in Two colour tone for depth perception for players (As shown in Drawing)

6. Synthetic Turf should have a warranty of 7 years.

7. Test of Pitch.

8. Lab test for product indentification & FIH approval .

9. Field Test to know quality of the installed pitch.

10. Installation of the Synthetic **(Poly ethylene)** Hockey surface, including collection of samples at site and testing the same from FIH accredited laboratory as specified by committee.

11. Providing and laying of fully automatic single key operated Sprinkler System as per description given in BOQ item no S.No. – 25 NSR

12. Markings of Playing Area with all accessories as per specification of FIH.

13. Provision of Chain link fencing as per FIH norms. Height must be up to 8m behind the goal post in the length of 33m as per description given in BOQ item no. S.No. – 26 NSR

14. Providing 60 mm thick inter locking colored rubber Polished concrete block on pathway.

15. Construction of practice field just behind the D, of size not less than 20X10 Sqm.

16. Provision of 4 nos. dug outs as foot washing area must be made along with the field.

17. Any other work required to complete the playing field as per FIH.norms.

18. Finally approved from FIH as class - 1 certificate & from Office of the sports and youth welfare Department Raipur C.G.

19. Maintenance of pitch by specially designed machine for such purpose 4 times in year for a period of 3 yearsfrom date of actual completion of works.

C. For P.U. Flooring :-

1. Providing and laying 10mm thick indoor seamless cast in situ elastic synthetic floor conforming to latest EN Standards having following specification:

(i) 7mm thick elastic layer of Granular rubber sheet (Specific weight 650kg/cum) Over subfloor using adhesive (solvent free 2 component polyurethane) of hardness 93 shore and tensile strenghth 9N/mm2, joints are sealed with sealer (2 component polyurethane) of hardness 87-91 shore A, tensile strength 5N/mm2.

(ii) Laying 2mm (average)self levelling layer of colour as approved by the Engineer-in charge in two layer of PU (Mercury/Cadmium free. 2 component polyurethane) hardness 82 shore A, tensile strength 10N/mm2 elongation at break 230%

(iii) Finally applying a matcoat finish of an absrasion resistant 0.4gm, glossy (3-6%) layer of colour fastness (8) coating (2 component polyurethane).

(iv) Court marking for different games should be done with PU line paint of required colour complete in all respect to the entire satisfaction of Engineer-in-charge.(N.S)

Note: - The BOQ provided is only for guideline of Major items, No claim shall be entertained for variation in items or any other items required to perform the work by the contractor .The tentative concept drawing is attached.

OFFICE OF THE SUPERINTENDING ENGINEER P.W.D.
BILASPUR CIRCLE BILASPUR
NOTICE INVITING BID ON
TURN-KEY

N.I.T. NO. 2960 **/ BILASPUR /B&R/** **DATE** 8.10.2014

SEALED TENDERS IN FORM "G" TURN KEY CONTRACT ARE INVITED IN 3-ENVELOPE SYSTEM FOR WORK MENTIONED BELOW ON TURN KEY BASIS AT STATE SPORT TRAINING CENTER BILASPUR CHHATTISGARH. FROM FIRMS OF REPUTE/LIMITED COMPANY /GLOBAL FIRMS/ JOINT VENTURE ALL APPROVED BY IAAF & FIFA WHO HAVE SUCCESSFULLY EXECUTED SIMILAR ONE WORK OF SYNTHETIC ATHELETIC TRACK APPROVED BY IAAF IN LAST 3 YEARS AND/OR CURRENT YEAR.

SI. No.	Description of work	Estimated Cost (In Lacs)	Earnest Money to be deposited in Shape of Bank FDR	Last date & time of submission of Bid documents	Time & date of opening of EMD & Technical Bid	Time allowed for completion (Including First Rainy season)	Tender Document Fees (Non Refundable)
1	2	3	4	5	6	7	8
1.	(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH. (2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc. (3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field. At State Sport Training Centre Bilaspur, Chhattisgarh	1223.23	Rs. 5,00,000/- Pledged in favour of Executive Engineer PWD Bilaspur Dn No-1 Bilaspur	**28.10.2014 up to ~~17.00~~ 17.30** Hours	**29.10. 2014 up to 15:00** Hours	09 (Nine Months)	Rs. 25,000/- Shape of Bank Draft issued by schedule Bank in favour of Executive Engineer PWD Bilaspur Dn. No.-1 Bilaspur

2. Synthetic Surface for Athletic track has to be of FIH, IAAF & WBF approved quality as applicable for Global competitions Category and confirms to the specifications as laid down by FIH, IAAF & WBF for such surfaces and as certified by the Laboratories accredited by FIH, IAAF & WBF Only such bids will be eligible for consideration where the synthetic Athletic surfaces offered have actually been approved by FIH, IAAF & WBF for Global competitions (mentioned in the Bid Documents). The detailed specifications are given in the Bid Documents. Certificate from the FIH, IAAF & WBF accredited laboratory is required to be furnished alongwith the sample of the Product being offered indicating the specifications exactly on the same line as per given in latest edition of I FIH, IAAF & WBF track & Field Manual.

3.1 The bid must be accompanied by a FDR/TDR for the amount of Rs. 500000.00/- (Five lacs only Indian Rupees), of a schedule bank in favour of Executive Engineer, Public works Department, Bilaspur Division No-1 Bilaspur (C.G.), India as Earnest Money for the above tender.

3.2 The bid documents (Non-Transferable) can be obtained from the Office of the Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.), India on any working day from **8.10.2014** to **27.10.2014** up to 5:30 pm on payment of Rs. 25000/- (Twenty five thousand Indian Rupees) (Non-Refundable) in the shape of Bank Draft/Pay order drawn in favour of Executive Engineer, Public works Department Bilaspur Division No-1 Bilaspur (C.G.), India of any schedule bank payable at Bilaspur. The bid document can also be downloaded from http://cgstate.gov.in & https://pwd.cgeprocurement.gov.in but the cost of Rs. 25000/- (Twenty five thousand Indian Rupees) shape of Bank Draft issued by Schedule Bank in favour of Executive Engineer, Public works Department, Bilaspur Division No-1 Bilaspur (C.G.) shall be submitted with E.M.D. Envelope.

4. Sealed Bid Documents duly signed on all pages shall be delivered to the Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.), India by Registered Post/Speed Post so as to reach on or before 17:30 hours of **28.10.2014**. The EMD &Technical Bids shall be opened by Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur on **29.10.2014** in presence of the bidders or their authorized representatives who wish to attend. The date of opening of the Financial Bids of those bidders fulfilling the requirement will be announced on a separate date after evaluation of the technical bid by committee. If the

office happens to be closed on the date of receipt of the bids or opening of bids as specified, the bids will be received and opened on the next day of opening of the office at the same time and venue.

5. The undersigned will not be responsible for the postal delay if any, in the delivery of the documents or non-receipt of the same.

6. The Competent Authority/committee does not binds himself to accept the lowest rate and reserves the right to accept or reject all or any bid without assigning reasons, thereof.

7. The bidder shall quote for the FIH, IAAF & WBF approved Synthetic Poly urethane Athletic track suitable for Global Competitions and should be acceptable to the Competent Authority.

8. The bidder should have successfully executed at least one similar project in the last 3 years and/or current year. Similar project means Providing & Laying 8 lane 400 m synthetic Athletic track, (Full PUR Type) Class II, Astroturf & P.U. Flooring approved by FIH, IAAF & WBF norm's and rules including construction of sub-base, base, bituminous work, Drainage System, Providing, Laying, Testing and Commissioning of fully automatic single key operated Sprinkler System & all other works. Documents to this effect with satisfaction report of employer shall be submitted in Technical Bid Document (Envelope 'B').

8.1 The firm should have a sound financial background should be in field & laying synthetic surface, courts etc. for international level sports, sould have a minium turn over exceeding Rs. 12 Crores in last 3 financial years each.

8.2 Tenders should submit information regarding litigation current or during last five years in which the bidder is involved in any manner the bidder sould give details of such litigation & should give a declaration that they have not been banned or delisted by any Govt. or Quasi-Govt. Agencies or PSU's.

9. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub -soil (so far as is practicable), the form and nature of the site, the means of access to the site, and, in general, shall themselves obtain all necessary information as to risks, contingencies and other circumstances which influence or affect their bid. A bidder shall be deemed to have full knowledge of the site, whether he inspects it or not, and no extra charges consequent on any

misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at its own cost all materials, tools and plants, equipment etc. and all other services required for execution of the work unless otherwise specifically provided for in the contract documents. Submission of a bid by the bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work. Any damages done to the **Property of the Department of Sports & Youth Welfare, Raipur Chhattisgarh** or other persons shall be made good by the bidder at his own cost.

10. The bid shall be submitted in three separately sealed envelopes as mentioned below. The language used shall be English. In case any information is given in foreign language, then translated (in English) copies of those pages must be enclosed, failing which the bid shall be disqualified.

11. **ENVELOPE 'A'**

This shall contain the cost of bid document (Rs. 25000/-) in shape of Bank draft/ pay order as per clause 3.2, if the document is downloaded from website. And earnest money of Rs. 500000/- (Rupees Five lacs only) in shape of **FDR/TDR** as per clause 3.1, failing which the bid will not be accepted.

12. **ENVELOPE 'B' (TECHNICAL BID DOCUMENT)**

(i) This Envelope shall contain except form 'G' & 'BOQ' the document, information pertaining to the technical bid, the product & its ingredients, test, reports, installation & maintenance manual and prescribed technical specification/documents and guarantee on product for pre-qualification given hereinafter along with the Technical bid document duly signed on each page.

(ii) Four sealed samples of each product (FIH, IAAF & WBF approved) offered, of size not less than 300 mm x 300 mm duly labeled and signed at the back with the company's seal and date, specifying the brand name of the product, code & literature relating the materials if any together with sample for the under layer.

(iii) The credential of firm to be included for those. who authorized by the manufacturers/suppliers of the material for execution of this work including the list of similar work e xecuted in India or abroad with

location, cost of work and period during which those works are executed duly Signed by the Competent Authority.

12.1 The Test Reports of the Synthetic Surface offered must be submitted from FIH, IAAF & WBF accredited laboratory on FIH, IAAF & WBF approved form containing the value of the technical parameters. The FIH, IAAF & WBF accredited laboratory must conduct the test on the identical sample intended to be offered.

12.2 The bidder shall indicate the technical parameters, norms along with referred codes, standards and practices for the surfaces and its ingredients to be utilized for the surfaces.

13. **ENVELOPE 'C' (FINANCIAL BID)**

This envelope shall contain the price for complete execution of various items of work as described in scope of work including all material, labour T&P, Taxes etc.

14. The bidder shall clearly indicate the specific name of the materials required to be imported from outside India and the amount required to be paid in Foreign Currency to enable Executive Engineer, Public works Department, Bilaspur Division No.1 Bilaspur (C.G.) to obtain necessary sanction for such payments and to facilitate opening of Letter of Credit in name of the manufacturer/ Principal supplier in whom name the FIH, IAAF & WBF approval of product has been accorded if required.

15. Envelope-'A' (Earnest Money & cost of bid document), Envelope-'B'(Technical Bid Document), and Envelope -'C" (Financial Bid Document), shall be in separate sealed envelopes, each marked as "Envelope-'A', 'Envelope-B' and 'Envelope-C'. All the three envelopes shall be submitted in another sealed envelope. Super scribing there on "bid for construction of Athletic track, (Full PUR Type) Class II, Astroturf & P.U. Flooring **at State Sport Training Centre Bilaspur, Chhattisgarh"** The envelope shall be addressed to Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.) India. 495001 The envelope marked 'Envelop-'B' of only those bidders shall be opened, whose earnest money & cost of bid documents are placed in the 'Envelop 'A' and found to be in order.

16. Refund of earnest money: - The amount of earnest money, in the case of successful bidder, shall be refunded on completion of work and receipt of satisfactory test reports of samples of the surface actually laid from the FIH, IAAF & WBF approved accredited laboratory specified

by Committee. However E.M.D. of unsuccessful bidders will be refunded after the award of the contract to the successful bidder.

17. The committee does not bind himself to accept the lowest or any other bid, and reserves the right to reject any or all of bids received without assigning any reason. Any bid in which any of, the prescribed conditions are not fulfilled or incomplete in any respect or there is any correction not duly, initialed by the bidder is liable to be rejected. However, the final decision for accepting / rejecting bids, will be in the sole discretion of The committee.

18. Bid shall remain open for acceptance for a period of 120 days from the date of opening of the financial bid. If any bidder withdraws his bid before the said period, Earnest money deposited shall be forfeited by the committee.

19. The Notice Inviting bid shall form part of the contract document. The successful bidder shall sign the necessary contract documents consisting of the notice-inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance there of together with any correspondence leading thereto, within the time specified in the letter communicating the acceptance of the bid. In case of delay in signing the agreement the earnest money shall be forfeited and the bid cancelled.

20. If the Head Quarter of the successful bidder is at a place other than Bilaspur (C.G.) he shall appoint a duly Authorized Representative in Bilaspur from the date of Commencement of the work until the work is physically completed. Such Representative shall be authorized to act on behalf of the successful bidder. Any notice under the contract shall be deemed to have been served on the successful bidder, if served upon such Representative or sent by registered letter at his address in Bilaspur Such Representative shall not be changed and shall not leave Bilaspur during the period of the contract without the prior approval of the Executive Engineer, Public works Department, Bilaspur, Division No.-1 Bilaspur (C.G.). If Executive Engineer, Bilaspur, Division No.-1 Bilaspur, shall require the successful bidder to carry out rectification of the defects under the terms of the contract after the work has been completed, the successful bidder shall appoint the same or another duly Authorized Representative in Bilaspur (C.G.) while such rectifications are being carried out.

21. The bidder shall employ a qualified Graduate Engineer at the place of the site from the date of commencement of the work till the work is completed and handed over to **Director, Sports & Youth Welfare, Chhattisgarh, Raipur 492001**. In the event of non-employment of the said Engineer, a recovery of Rs. 20,000/- per month will be recovered from the running payment.

22. The bidder shall submit a detailed work program on the basis of the various items of work to be completed for execution of the work as per **Annexure-I** of the contract documents.

23. No additional conditions from the bidder shall be acceptable. The bids having any additional conditions will be summarily rejected without assigning any reason.

For and on behalf of Governor of Chhattisgarh

Signature of the Bidder

Superintending Engineer,
P.W.D. Bilaspur Circle Bilaspur (C.G.)

Date :-

GOVERNMENT OF CHHATTISGARH
OFFICE OF THE SUPERINTENDING ENGINEER P.W.D.
BILASPUR CIRCLE BILASPUR
BID ON TURN KEY BASIS AND CONTRACT FOR WORKS

GENERAL RULES AND CONDITIONS:

1. All works proposed for execution by contract will be notified in a form of invitation of bid by Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.) This form will state the works to be carried out, as well as the date for submitting and opening bids and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the bid. Copies of the specifications, designs and drawings and a schedule of quantities and any other documents required in connection with the work shall also be open for inspection by the bidder at office of the Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.) during office hours.

2. The bid submitted by the bidder must be signed by the bidder or on his behalf by Authorised Signatory being a person holding the Power of Attorney authorizing him to do so. Such Power of Attorney shall be submitted with the bid.

3. Any bidder who submits a bid shall fill up the schedule of Quantities (Annexure II) stating the rate of each item of the work. Bidder, whic h propose any alteration in the work specified in the said form of invitation to bid, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, will be liable to rejection.

4. The bidder is bound to arrange the power point presentation regarding his experience of previous and this work as work as desired by the committee. Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.) will open the bids in the presence of any intending bidders who may be present at the time, technical bid document shall be scrutinized and evaluated by the committee. Financial offer of technically approved bidders shall be opened by Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.). Evaluation of financial offer shall be done by the committee, who's decision shall be final and binding. In the event of a bid being accepted, the bidder shall for the purpose of identification sign copies of the specifications and other documents. In the event of a bid being rejected, the earnest money forwarded with such unaccepted bid shall thereupon be returned to the bidder remitting the same, without any interest.

5. Price quoted by the bidder in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, rates in words shall be taken as correct and amount corrected accordingly.

6. All rates shall be quoted in the schedule of quantities. The amount of each item should be worked out and requisite totals given. Special care should be taken to write the price in figure as well as in words in such a way that interpolation is not possible. The total amount should be written both in figure and words. The total amount of the bid given by the bidder shall be checked arithmetically and shall be corrected if required while evaluating the bid.

7. On acceptance of the bid, the name with address and telephone numbers of the accredited representative(s) of the bidder who would be responsible for taking instructions, shall be communicated in writing to Executive Engineer, Public works Department, Bilaspur Division No.1 Bilaspur (C.G.)

8. The quoted price shall be inclusive of the all taxes payable on materials as applicable under State Sales Tax or any other tax, in respect of this contract and shall be payable by the bidder only and the Executive Engineer, shall not entertain any claim whatsoever in respect of the same. Any new tax levied by the government after drawl of the agreement shall be reimbursed by the department on production of such payment documents.

9. The bidder is required to submit the following information with documentary proof and failure to submit any of the documentary proof will render the bid document invalid.

List of Documents :-

	Name(s) and Full Address of the Firms	
	Telephone No.	
	Telex:	
	Fax :	
1 (a)	Balance Sheet and profit & Loss Account for the last three years duly audited by a registered Chartered Accountant.	
(b)	Annual Administrative Report for the last three years.	
(c)	Income Tax Returns filed for the last three years.	
2. (a)	Brand Name of the Product being offered	
(b)	Certificate from FIH, IAAF & WBF for each sample offered	
(c)	Detailed technical specifications of each sample offered separately conforming to FIH, IAAF & WBF Handbook:	
(d)	The firm will submit the Time Schedule for execution of the work as provided in Annexure -I	
3.	Test Reports of the product quoted containing value of Technical Parameters. Copy of approval and validity period to be clearly indicated.	
4.	Legal status; Whether a proprietary or a partnership firm of incorporated body etc. With proof of registration/certificate by Government of parent country.	
5.	Authenticated copy of the following documents, translated in English language.	
(a)	Certificate of Incorporation (in case of an incorporated body).	
(b)	Memorandum of Association	
(c)	Certificate by Auditor confirming existence of assets (unencumbered) of the value of 30% of the bided amount.	
6 (a)	Name (a) and address (es) with Fax number of customers along with the place and year where the surfaces have been installed including in India be furnished.	
(b)	Documentary proof of satisfactory installation of Athletic track during the past three years and the present condition of the installed surface.	
(c)	Certificate to the effect that the surface (s) offered is laid and used for International Competitions/Olympics and details thereof.	
7.	The period for which the supplier manufacturer has been manufacturing the Synthetic Athletic track and is in the business	

	of supplying/installing the Surface. Documentary proof thereof.	
8.	Any other documents / information, which bidder, may consider appropriate to the activity of bid.	
9.	Details of disputes/claims, if any, between the bidder and any Sports Authority/Body and its present status.	

Note :- 1. Separate information sheet may be provided for item (s) in case space provided is not adequate .

2. Affidavit in the enclosed format on Non Judicial stamp paper of Rs. 50 (Rupees Fifty only) duly attested by Magistrate/Notary shall also be furnished by the bidder.

TECHNICAL SPECIFICATION

(A) :- The synthetic track surface shall exhibit the following minimum performance standards (IAAF) :-

A. Thickness : The thickness of the synthetic surface As per IAAF specification .

B. Surface Hardness: - Top layer hardness 50 (+/-5) shore A (ASTM D-2240-05), Bottom layer hardness 35 (+/-5) shore A (ASTM D-2240-05)

C. Force reduction: - The force reduction of the synthetic surface, compared to an inflexible substrate (concrete), shall be between 35% and 50%.

D. Modified vertical deformation: - The vertical deformation of the synthetic surface shall be between 0.6mm and 1.8mm.

E. Coefficient Friction:- The synthetic surface coefficient of friction shall be nowhere less than 0.5 when wet. (Note: This corresponds to a scale reading of 47 on the TRRL machine.)

F. Imperfections: - No surface imperfections such as bubbles, fissures, delaminating etc. shall be acceptable.

G. Surface Flatness: - There shall be no localised bumps or depressions beneath a 4m straightedge exceeding 6mm, or beneath a 1m straightedge exceeding 3mm, at any position and in any direction. Step-like irregularities shall be no greater than 1mm in height.

H. Tensile Properties: - The synthetic surface shall have a Minimum tensile strength of 0.5MP a for NON-POROUS surfaces and 0.4MPa for POROUS surfaces.

I. Elongation at Break (As per I.A.A.F. Performance Specification)

J. Fungal Resistance Test (ASTM G 22)

K. Colour:- As decided by committee within scope of IAAF norms.

L. Chemical Resistance :- As per IAAF norms.

M. Drainage :- When completely covered with water and allowed to drain for 20 minutes, there shall be no area of synthetic surface where the depth of residual water exceeds the texture depth of the surface.

N. Slope :- The track surface, i.e. asphalt substrate, shall have a maximum lateral slope outside to inside of 1.0% and maximum slope of 0.1% in the running direction.

Materials :-

* Primers

Primers shall be water based latex, specifically formulated to be compatible with the asphalt/concrete base and track surfacing material.

* Granular base

The rubber granules for the base course shall be recycled rubber, processed and chopped to 1-5 mm sixe midcourse 1-4 mm in size and surface course 1-3 mm in size containing less.

* Latex Binder

Binder for the black mat shall be minimum 50% solid SBR latex resin used for latex track construction.

* Line marking paint

All line events marking shall be applied by experiences personnel utilizing an acrylic paint compatible with synthetic track.

Note:- 1. Codes and standards follows the current guidelines set forth by (International Association of Athletic Federations (IAAF) along with the current material testing guideline as published by the IAAF.

2. The wet Mix Macadam, Bituminous Macadam and bituminous concrete shall be laid in such a manner as to accommodate the higher thickness of Synthetic Athletics Track Surface in high stress area and circular cement concrete slab of Discuss, Hammer and shot put Throw.

3. The work shall conform to performance specifications for synthetic surfaced athletic track (outdoor) to meet the technical requirements for use in all international competitions, which shall be subjected to all laboratory and field tests.

4. The contractor shall not emboss the name of the product of company on the track as well on competition equipments.

Standard for football grassy field :

Top first layer of football surface:-

200mm filtered earth mixed with 10% sand absolutely free from debris or any other aggregate second layer of football surface

Second layer of football surface:- 200mm soil mixed with 10% sand.

(B) :- Technical Specification of offered Synthetic Surfaces Conforming to FIH Hand Book :-

No.	Item	Type of Synthetic Surface	Performance
1	2	3	4
	Specification Test	**FIH** Global Competition hockey Surface(Unfilled)	
(a)	Predictable playability	Yes	
(b)	Ball Rebound (Vertical)	100 mm and 250 mm	
(c)	Ball Roll	9m - 15 m Max 3° (+ 10% of average)	
(d)	Ball to Surface Friction	Equal to or greater than 0.50 static and 0.35 dynamic	
(e)	Underfoot Friction	Between 0.6 and 1.0 (± 0.1 rom average)	
(f)	Impact Response	40% to 65% (± 5% deviation)	
(g)	Pile/Pad Deformation	Stable level achieved not less than 40%	
(h)	Surface Colour	Green & Uniform	
(i)	Surface Gloss	Sufficiently Matt to avoid glare or specular reflection. Degree of gloss shall not exceed 15% when wet.	
(j)	Pitch Porosity	The flow of vertical drainage of water at a rate greater than the equivalent of 150mm per hour.	
(k)	Pitch Slope	Horizontal but longitudinal fall of less than 0.2% acceptable.	
(1)	Pitch Profile	Target 0.4% Min. 0% Max. 1%	
(m)	Pitch Smoothness	Max 6mm deviation above or below a 3m straight edge.	
(n)	Pitch Watering	Average 3mm of water and no less than 2mm maintained over 35 minutes.	
(o)	Pitch Marking	Hockey ± 150mm and straight ±30mm for circles and penalty spots Line width ± 10mm. Diagonals	

No.	Item	Type of Synthetic Surface	Performance
1	2	3	4
		less than 10m difference to each other.	
(P)	Pitch overruns Same surface	Back-line 3m Side line 3m	
(q)	Additional pitch overruns (Optional surface)	Back Line 2 m Sideline lm	
(r)	Size of the Pitch including additional overruns	101.4M x 63 M	
2.	Material Specifications:		
	a) Pile length (mm)	As per FIH	
	b) Pad thickness(mm)	As per FIH	
	c) Complete Dry weight per Unit	As per FIH	

(C) :- Providing and Laying Indoor Seamless Elastic Synthetic Floor as per WBF Norms

No.	Item	Type of Synthetic Surface	Performance
1	2	3	4
1.	Providing and laying 10mm thick indoor seamless cast in situ elastic synthetic floor conforming to latest EN Standards having following specification:	As per WBF	
	(i)7mm thick elastic layer of Granular rubber sheet (Specific weight 650kg/cum) Over subfloor using adhesive (solvent free 2 component polyurethane) of hardness 93 shore and tensile strenghth 9N/mm2, joints are sealed with sealer (2 component polyurethane) of hardness 87-91 shore A, tensile strength 5N/mm2.	As per WBF	
	(ii) Laying 2mm (average)self levelling layer of colour as approved by the Engineer-in charge in two layer of PU (Mercury/Cadmium free. 2 component polyurethane) hardness 82 shore A, tensile strength 10N/mm2 elongation at break 230%	As per WBF	
	(iii) Finally applying a matcoat finish of an absrasion resistant 0.4gm, glossy (3-6%) layer of colour fastness (8) coating (2 component polyurethane).	As per WBF	
	(iv) Court marking for different games should be done with PU line paint of required colour	As per WBF	

Note :- As per Standard the Synthetic Track shall be laid at the highest level of the open field accordingly the levels of the surrounding were decided. Which are average 500 mm lower than the top level of adjoining Synthetic Hockey Field.

Technical specification for other items Shall be as per MORT&H (IV revision) / latest IS codes/CPWD norms etc.

FORM G - BID FOR A TURN KEY CONTRACT

I / We do hereby bid to execute the whole of the work described in the bid document according to the specification mentioned there in for the sum of Indian Rs.:_____

(In words Indian Rupees :

_____)

and should this bid be accepted . I/We do hereby agree and bind myself/ourselves to abide by and fulfill all the terms, conditions, specifications mentioned in bid document or in default thereof to forfeit and pay to the Executive Engineer, Public works Department, Bilaspur Division No-1, Bilaspur an behalf of Governor of Chhattisgarh the penalties of sums of money mentioned in the said document.

Dated:

Bidder's Signature

Address ……

…….

Witness:

1. _____

Address:

2. _____

Address:

The above bid for Rs. …….. is hereby accepted by me on behalf of the Governor of Chhattisgarh.

Date

(Designation)
SIGNATURE OF AUTHORITY BY WHOM
THE BID IS ACCEPTED

BID ON TURN KEY BASIS

I/We have read and examined the notice inviting bid, schedule of quantities, specification applicable, drawings and designs, general rules and directions, conditions of contract, clauses of contract, special conditions and other documents, and Rules referred to in the conditions of contract and all other contents in the bid documents for the work.

I/We hereby bid for the execution, for the work specified in the underwritten memorandum within the time specified in such memorandum at the price quoted in form-G in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in clause of the conditions of contract and in all respects in accordance with such conditions.

Name of work: -

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.

At State Sport Training Centre Bilaspur, Chhattisgarh.

Time allowed for completion of work:- 9 (Nine) months i/c rainy season from the date of issue of work order.

I/We agree to keep the bid open for 120 days from the date of opening thereof and not to make any modification in its terms and conditions.

A sum of Rs. 500000.00 (Rupees- Five lacs only) is hereby forwarded in the form of FDR/TDR in favour of Executive Engineer, Public works Department, Bilaspur Division No-1 Bilaspur (C.G.) as earnest money .

Should this bid be accepted, I/We hereby agree (i) to abide by and fulfill all the terms & conditions of the said conditions annexed hereto and all the terms and provisions contained in notice inviting bid, and/or in default thereof to forfeit and pay to Executive Engineer, the sum of money mentioned in the said conditions.

If I/We fail to commence the. Work specified in th e above memorandum I/We agree that Executive Engineer, Public works Department, Bilaspur Division No-1 Bilaspur (C.G.) shall without prejudice to any other right or remedy, be at liberty to forfeit the

said earnest money absolutely and to execute all the works referred to in the bid documents upon the terms & conditions contained or referred to therein.

Dated :

Address : ……

Signature of the Bidder

Witness :

Address :

Occupation :

INTERPRETATIONS & DEFINITIONS

1	The "Contract" means the documents forming the bid and acceptance thereof and the formal agreement executed between the competent authority on behalf of Govt. of C.G.P.W.D. Raipur and the bidder (hereinafter call the contractor), together with the documents referred to therein including those conditions, the specifications, designs, drawings and instructions issued from time to time by Superintending Engineer, Public works Department, Bilaspur Circle Bilaspur (C.G.)and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another
2	In the contract, the following expression shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them.
	i) The expression **"Works", or "Work"** shall, unless there be something either in the subject or context repugnant to such construction, be constructed and taken - to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
	ii) The **"Site"** shall mean the land/or other place on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allowed to use for the purpose of carrying out the contract.
	iii) The **"Contractor"** shall mean the successful bidder undertaking the works and shall include the legally authorized representatives or such individual or the persons comprising the agency, or the successors of the agency having possession of the property or holding in the event of the firm is liquidated before completion of work.
	iv) Committee means the group of following officers formed for evaluation & recommendation of bid, acceptance of execution of work and its evaluation & approval on completion of work. 1. Director/authorized representative of Director, Sports & Youth Welfare Department Govt. of Chhattisgarh . 2. International / national/State level Athletic player & Football player as nominated by the Director, Sports & Youth Welfare Department. Govt. of Chhattisgarh . 3. Executive Engineer , Public Works Department, Bilaspur Division No-1, Bilaspur (C.G.) 4. Divisional Accounts officer C/O Executive Engineer Public works department , Bilaspur Division No-1 Bilaspur (C.G.) 5. Sub Divisional officer public work department , High Court Sub Division No. 2 , Bilaspur (C.G.)
	v) " Executive Engineer " means Executive Engineer, Public works Department, Bilaspur Division No-1 Bilaspur (C.G.)
	vi) The **"O.I.C"** means Officer-in-charge who shall supervise and be in charge of the work.
	vii) **'Bid Value"** means the value of the entire work as stipulated in the letter of award.
	viii) **"Equipment"** means all machinery, apparatus and articles to be provided under the contract by the Bidder.

	ix) **"Parties to contract "** means the bidder whose bid is accepted by the Executive Engineer with the consent of committee on one part (here is after called as contractor) and Govt. of C.G.P.W.D. acting through the Executive Engineer , Bilaspur Division No-1 P.W.D. Bilaspur on other part.
3	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any masculine gender shall whenever required include feminine gender and vice versa.
4.	Headings and marginal notes to the conditions of the contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
5.	The Bidder shall be furnished, free of cost one certified copy of the contract documents (except standard specifications, schedule of rates and such other printed and published documents), together with all drawings as may be forming part of the bid papers. None of these documents shall be used for any purpose other than that of this contract.

CLAUSES OF CONTRACT

Clause : 1 Works to be carried out:

The work to be carried out under the contract shall, except as other wise provided in these conditions, include all labour, materials, tools, plants, equipment , royalty & taxes etc. and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the scope of work shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

Clause : 2 Sufficiency of Bid:

The Bidder shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of this bid for the works and prices shall except as otherwise provided/cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

Clause : 3 Time Allowed :

3.1 The Work should be completed to the satisfaction of committee within **Nine months** from date of work order in all respects.

3.2 Notwithstanding anything herein contained, the parties hereto acknowledge and agree that the time is the essence of the contract in all respects for their respective performance and discharge of obligations under this contract and the parties shall adhere to the time/delivery schedule as provided in **Annexure - I** of the contract unless otherwise mutually agreed to by the committee and contractor.

Clause : 4 Executive Engineer :

4.1 Being a party of this Contract shall sign the agreement with the contractor within fifteen days of issue of acceptance Letter issued by the him. This period can be extended maximum up to 7 days on written consent of committee.

4.2 Hand-over the site to the contractor within seven days of signing of the agreement.

4.3 Allow the work to be commenced by the contractor within seven days after signing of the agreement.

4.4 Provide necessary assistance if required for obtaining import license and custom duty exemption certificate for the synthetic athletic surface and for the equipment to be temporarily imported and to be re-exported after completion.

Clause: 5 Performance Guarantee:

5.1 The contractor shall submit an irrevocable PERFORMANCE GUARANTEE of 5% (Five percent) of the contract amount in term of Indian Rs., in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provision in the contract) within 15 days of issue of letter of intent. This period can be further extended by the Executive Engineer up to a maximum period of 7 days on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the committee. This guarantee shall be in the form of Government Security or fixed deposit receipts/Guarantee Bonds issued by State Bank of India/other scheduled bank approved by RBI, in accordance with and as per prescribed format.

5.2 A letter of intent shall be issued in the first instance informing the successful bidder of the decision of the competent authority to accept his bid and the award letter shall be issued only after the Performance Guarantee in the prescribe d form is received. In case of failure by the contractor to furnish the performance guarantee within the specified period, the Executive Engineer, shall without prejudice to any right or remedy available in law, be at liberty to forfeit the earnest money absolutely.

5.3 The Performance Guarantee shall be initially valid for 45 months. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. The available performance guarantee shall be returned after expiry of warranty period of the project.

5.4 The Executive Engineer shall not make a claim under the Performance Guarantee except for amounts to which the Executive Engineer is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of :-

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Executive Engineer may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay the Executive Engineer any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by the Executive Engineer.

5.5 In the event of the contract being determined or rescinded under provision of any of the clause/condition of the agreement, the Performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Executive Engineer.

Clause : 6 Works to be executed in accordance with specifications, drawings, orders etc.:

6.1.1 The contractor shall submit the drawings/designs of the work to be executed within 15 days of signing of the agreement. All Drawing's & design's shall be got approved by the committee. The design and drawings so submitted shall be the sole and exclusive property of the Executive Engineer .

5.1.2 The contractor shall execute the whole and every part of the work in the most substantial and workman like manner both as regards materials and otherwise in every respect including all necessary laboratory/site tests, quality workmanship at his own cost, in strict accordance with approved FIH, IAAF & WBF specifications and the product sample approved including designs for synthetic Track, Astroturf & P.U. Flooring/Central Public Works Department (Govt. of India) specifications 1996 with amendments issued up to date/ MORTH (Fourth revision specification/Indian Standard Institution specification) for sub base & other works.

6.2 All works shall be executed under the directions of the Committee. Any report in this regard has to be forwarded to committee.

6.3 The Synthetic Athletic track Astroturf & P.U. Flooring identical to the sample approved shall be laid after the said Committee is fully satisfied with the leveling and surfacing work of sub base (including removal of the existing surface wherever applicable) and certifies to that effect in writing. Any change to the quality of the Synthetic Athletic track Astroturf & P.U. Flooring other than to the sample approved shall not be accepted.

6.4 The contractor when requiring to engage any local contractor for construction/repair of sub base must engage a reputed registered contractor having experience of carrying out of work of similar nature and quantity in the past. Such contractor's particulars with registration number and list of machinery available with the Contractor must be given to the committee before execution of the work.

6.5 The contractor shall employ his technical experts including a Graduate Engineer for technical supervision during execution of work and as long thereafter as may be necessary for proper fulfilling all the obligations under the contract.

Clause : 7 Discrepancies and Adjustment of Errors :

7.1 The several documents forming the contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small-scale drawings and figured dimensions in preference to general conditions.

7.2 In the case of discrepancy between the particular of item shown in Schedule, the specifications and/or the Drawings the following order of preference shall be observed :

i. The Norms and Specifications of FIH, IAAF & WBF

ii. Construction below shock pad is as per MORTH (fourth revision) specifications.

iii. Latest Specification of B.I.S./ Central Public Work Department.

iv. Particulars Specification and Special Condition, if any.

v. Drawings and specification for civil work will be as followed as per C.G. P.W.D.

vi. Description of Schedule of items.

7.3 If there are varying or conflicting provisions made in any one document forming part of the contract, the committee shall be the deciding authority with regard to the intention of the document and committee's decision shall be final and binding on the contractor.

7.4 Any error in description, any omission of items in the schedule shall not vitiate the contract or release contractor from the execution of the whole or any part of the works compromised therein according to drawings and specifications or from any of his obligations under contract.

Clause : 8 Materials, Equipment, Tools & Plant:

8.1 The contractor shall arrange all materials, labour, machinery, equipment, tools and plant, mixers, protective clothing, fork lift, truck, dumper, office equipment (hereinafter collectively referred to as 'materials & equipment') and such other materials and equipment as is necessary for efficient and timely execution of the work. The Executive Engineer, shall in no way be responsible to any accidents or injury caused during the execution of the work.

8.2 The entire work as provided in the contract shall have to be got done from the specialized and experienced agencies having necessary expertise, equipment, plant and machinery and necessary test etc.

8.3 All materials and equipment related to this contract shall be properly packed by the contractor to avoid any loss, damage or deterioration in transit and during storage or laying/fixing in India. Notwithstanding the said transit insurance, the responsibility of safe transportation of materials & equipment shall be with the contractor. Should any loss or damage occur, the contractor shall initiate and pursue claims till settlement and promptly make arrangement for repairs and/or replacement of any damaged items irrespective or settlement of claims by the under writers. Delay arising out of damage to materials and equipment in transit shall not be considered for extension of the schedule date of completion.

Clause : 9 Price :

9.1 The price bided by the contractor shall be for completed items of work covering all materials, labour, carriage, royalties, fees, rents, sales tax and any other taxes, octroi, levies, insurance charges and demurrage, wastage, tools, plant, equipment, transport, temporary construction, overhead charges and profits as well as general liabilities, obligations and risks, etc. and security up to handing over of ground arising out of the conditions of the contract etc complete. The prices will also include cost of testing of samples, collected during execution in the FIH, IAAF & WBF accredited laboratory as also for field (site) tests and repair/replacement of defective of worn out portions of surface during the warranty period. No extra charges, whatsoever, consequent on any misunderstanding or otherwise shall be allowed.

9.2 The prices shall also be inclusive of all expenses, taxes, levies, insurance and demurrage and any other fees and expenses etc. levied by the authorities in the place of origin, on voyage and in India and shall be paid by the contractor except for the custom duty (on material imported from out side of India required for execution of work) payable in India for which the Government of C.G. Sports and Youth Welfare Department will apply and obtain 'Custom Duty Exemption Certificate'. Necessary assistance if required will be provided by the Executive Engineer with the consent of committee. This will be subject to the contractor complying with the condition, including re-export within six months from the date of importation of the equipment for laying/fixing of the said surface specified in Annexure to the Notification No.ll/97-Customs dated 1.3.1997, as amended from time to time, regarding customs duty exemption in respect of equipment required for laying/fixing of the surface.

9.2.1 In case the custom duty is paid by the contractor, contractor shall be reimbursed to him on submission of necessary document in support of the same.

9.3 The price will remain firm during the entire period of contract till the completion of the work in all respects and there will not be any escalation in the bided value due to any reason whatsoever.

Clause : 10 Quality Control :

10.1.1 Samples for testing by the FIH, IAAF & WBF accredited Laboratories as determined by the committee is to be provided by the contractor during execution of the work for which no additional expenses are to be given. Samples required are two nos. 1.50 Sqm. Specimens (Carpet and under layer rubberized pad for in-laboratory test. The Specimen required for any other tests as per the norms of FIH, IAAF & WBF should be made available. Apart from above, one sample is to be provided having joints. For future reference one sample of 1.50 Sqm. and one sample having joints is to be retained by the committee.

10.1.2 Samples shall be taken as per the discretion of the committee in presence of the authorized representative of the contractor. Samples shall be sealed and signed by both the parties/indicating the location from where the same were taken. The samples shall be sent to any of the FIH, IAAF & WBF approved/accredited laboratories specified by the committee for testing at the cost of the contractor.

10.1.3 The Test Reports of the samples in original must be sent by the accredited laboratory directly to the committee at the address of Executive Engineer / concerned with in a period of 90 days from the date of physical completion of work.

10.1.4 The samples will be tested for the same parameters as indicated in the Test Reports submitted at the time submitting the bid.

10.2 The contract value shall be inclusive of all costs in taking and preparation of samples, their sealing, carriage and testing etc. to ensure that the work has been done in accordance with specifications in all respects.

10.3 All the materials used except as provided in 10.1.1 to 10.2 will be got tested as per directions of the committee also for the purpose of ensuring the quality of materials being used during the construction, such tests will be arranged by committee at regional laboratory/Field it self but cost will be borne by the contractor.

10.4 After completion of laying/fixing, the said surface shall be put to use for trial for a period of 30 days to the entire satisfaction of the Committee of Experts/Players, (Clause 10.5 of the agreement) so as to ensure that the said surface and providing/fixing thereof is strictly in accordance with FIH, IAAF & WBF requirements. In case, any defect or any shortcomings are noticed in the said trial or subsequent use, the contractor shall at his own cost rectify the said defects/short-comings or replace the defective materials to make the surface comply with the requirements.

10.5 Upon receipt of test report of the samples from the FIH, IAAF & WBF accredited laboratory and performance report of experts and players, the user Agency shall arrange for joint inspection of the completed work by a Joint Acceptance

Committee for certifying satisfactory completion of work as per contract and its acceptance.

10.6 At the time of laying of the top bituminous surface, the technical representative of the firm supplying Athletic track & Astroturf shall remain present during the full period of laying to ensure that the top bituminous surface has been laid as per their specification and requirement. No extra cost will be payable for the same. A certificate to this effect from the technical representative of the firm supplying the Athletic track & Astroturf for satisfactory laying of the top bituminous surface including under Neath work is to be obtained before commencing the laying of Synthetic Surface & Astroturf. Defects if any in the work below shock pad located shall have to be rectified by the contractor free of cost.

Clause : 11 Payment:-

Schedule of running payment :- Schedule of running payment may be based on the following break up of the cost quoted in form-G subject to the stipulations of conditions of contract.

A) For Athletic track

S.No.	Activity Details	Percentage of Total cost for payment	Remarks
1	Excavation Construction of Granular Sub-base, wet mix Macadam as per BOQ	4.5%	Payment will be done only after completion of activity and written approval of committee in all respect.
2	Providing Prime coat, Tack coat, Bituminous Macadam and Bituminous concrete as per BOQ.	8.00%	
3	Construction of R.C.C Drain with Concrete cover including reinforcement and paving around field as per BOQ	10.00%	
4	Supplying, Fitting, testing and commissioning of required capacity pump and Laying of Sprinkler system complete as per BOQ.	12.50%	
5	Providing and placing of Chain link fencing complete as per BOQ.	2.00%	
6	Supplying & Laying Athletic track surface Full PUR type approved by IAAF as per BOQ.	60%	
7	Payment after completion of performance/maintenance period	3.00%	

B) For Hockey Surface :-

S. No.	Activity Details	Percentage of Total cost for payment	Remarks
1	2	3	4
1	Excavation, Construction of Granular Sub-base, Wet mix Macadam as per BOQ	5.00%	Payment will be done only after completion of activity in all respect.
2	Providing Prime coat, Tack coat, Bituminous Macadam and Close Graded Premix Surfacing/ Mixed Seal Surfacing as per BOQ.	5.00%	
3	Construction of RCC Drain with Concrete cover including reinforcement and paving around field as per BOQ	6.00%	
4	Construction of pump house and RCC under ground sump complete as per BOQ.	1.00%	
5	Supplying, Fitting, testing and commissioning of required capacity pump of 40 HP and Laying of Fully automatic pop up Sprinkler system complete as per BOQ.	2.00%	
6	Providing and placing of Chain link fencing complete as per BOQ.	1.00%	

S. No.	Activity Details	Percentage of Total cost for payment	Remarks
1	2	3	4
7	Supplying & Laying Global Category (Unfilled), FIH approved Hockey Synthetic Surface as per BOQ.	55.00%	
8	Any other work required to complete the Astro-Turf ground as per FIH norms.	20.00%	
9	Payment after completion of performance / maintenance period.	5.00%	

(C) :- For P.U. Flooring :-

No.	Item	Percentage of Total cost for payment	Performance
1	2	3	4
1.	After levelling of floor by CC M20	5%	
2.	**(i)**7mm thick elastic layer of Granular rubber sheet (Specific weight 650kg/cum) Over subfloor Approved by WBF.	50%	Payment will be done only after completion of activity in all respect
3.	**(ii)** Laying 2mm (average)self levelling layer of colour as Approved by WBF.	25%	
4.	**(iii)** Finally applying a matcoat finish of an absrasion resistant 0.4gm, glossy (3-6%) layer of colour fastness (8) coating (2 component polyurethane).	10%	
5.	**(iv)** Court marking for different games should be done with PU line paint of required colour	5%	
6.	Payment after completion of performance / maintenance period.	5%	

Note :-

(1) Above activities are inclusive of all required test from departmental lab, FIH, IAAF & WBF accredited laboratory and field test.

(2) Successful bidder must provide all the structural design and working drawings of work.

(3) The sprinkler system, laid pipe lines, drainage system and Laying of turf must be checked and accepted by committee, before final payment of that activity.

(4) Payment is done only after completion of activity.

11.1 **Recovery at source:-** As per rules the Income Tax, Commercial Tax , Labour welfare cess, form each running bill/final bill will be deducted at source as per rules.

11.2 **Security Deposit @ 5% will be deducted from each running bill & it will be refunded after satisfactory completion of work and taken over by Director, Sports & Youth Welfare, Govt. of Chattisgarh.**

11.3 The price quoted by the Contractor shall be deemed to be inclusive of all taxes i.e. sales/VAT tax and other levies, duties, royalties, cess, toll, taxes of central and State Governments. Local bodies and authorities that the contractor will have to pay for the performance of this contract. The Govt. will perform such duties in regard to the deduction of such taxes at source as per applicable law. However if "Service Tax" and cess on service tax or any other "new Tax " (not increase or decrease in existing tax, duties, surcharge,) is levies on the contractor either by central govt. or state govt. then the Executive Engineer shall reimburse the " Service Tax " and cess on service tax and or " New Tax " amount ; on submission of proof of such payments by the contractor .

Clause 12 : Warranty of the work

12.1 The contractor shall certify that no sub-standard materials have been used in the work and provide written warranty to the effect that Synthetic Athletic track shall duly and fully comply with all the requirements of FIH, IAAF & WBF and against sub-standard materials and workmanship for a period of 3 years from the date of completion of work. As mentioned in clause 11.2. The warranty will be to repair or replace any part or whole of the said surfaces found defective or otherwise contrary to the FIH, IAAF & WBF specifications with no cost to the Executive Engineer.

12.2 The contractor undertakes that all remedial work or repairs or replacement necessary under the terms of warranty will be carried out promptly on notification in writing by the Executive Engineer / competent authority. in this regard and repairs or replacements will be carried out with materials identical to the original surface and at set times as may be agreed with the committee. so that the programme of activities is not affected. In case the contractor fails to carry out the said repairs/replacements/ removal of the defects within the stipulated time, the Executive Engineer with the consent of committee shall get the Bank Guarantee encashed and forfeit the amount of Bank Guarantee.

12.3 The contractor shall depute one qualified Engineer at site for day to day supervision of the Work and to ensure that work is being carried out as per the specification and prescribed time schedule.

12.4 The contractor shall discharge the obligations at his cost under the warranty clause.

Clause - 13 Breach of Contract

13.1 The Executive Engineer while executing a contract with the contractor shall have the full right to see that the terms & conditions, specifications, quality, workmanship of the works assigned to the contractor is fully complied and are satisfactory/ acceptable before payments are released.

13.2 If at any stage it is seen that the quality of material being used is below the standard accepted/ specified in the agreement or any deviation from the approved specification of the product or the laid down norms are not being followed/ there is contravention to the terms and conditions of agreement, the same will be considered as breach of contract and in such case, the Executive Engineer with consent of committee will have full right to stop further payment even if due, until and unless the discrepancies/ objections are set right or replaced/ clarified by the contractor to the entire satisfaction of the committee. Failing to comply with the above, the Executive Engineer with consent of committee would initiate legal action as deemed fit within the jurisdiction of Chhattisgarh Courts.

Clause 14 : Force Majeure –

14.1 The term "Force Majeure" shall mean acts of God or any act not within the control of parties, such as lightening and unprecedented floods, earthquake, hurricane and wars, revolts, riots, fire, sabotage. Upon the occurrence of such cause and upon its termination, the party, alleging that it has been rendered unable, as aforesaid, shall notify the other party in writing immediately but not later than seven days of the alleged beginning as well as ending thereof, giving full particulars and satisfactory evidence in support of its claim.

14.2 In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.

14.3 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts.

14.4 Should the delay caused by force majeure exceed two months, the parties to the contract shall hold discussions with the committee to resolve the situation.

Clause 15 : Liquidated Damages

15.1 The Executive Engineer and the contractor recognize that "time is the essence of contract" and the Executive Engineer will suffer financial loss and other damages including loss of face and reputation of the country, if the work is not completed within the stipulated date of completion. They also recognize the delay, expense and difficulties involved in proving in legal or arbitration proceedings the actual loss suffered by the Executive Engineer if the work is not completed within the stipulated time; accordingly, instead of requiring any such proof the Executive Engineer and the contractor agree that as liquidated damages for delay (but not as a penalty) the contractor shall pay the Executive Engineer Rupees 10,000/- per day, that expires after the stipulated date of completion until the work is completed, unless such delay is due to Force Majeure as defined in the contract or due to the Executive Engineer's default. The total incidence of liquidated damages for the entire work covered under the Contract shall, however, not exceed a sum of 10% (Ten Percent) of the contract value.

15.2 The parties agree that the figures of liquidated damages indicated here above are genuine pre-estimates of the loss/damage which the Executive Engineer would have suffered on account of delay/breach on the part of the contractor and the said amount will be payable on demand without there being any proof of the actual loss or damages caused by such delay/breach. All sums payable by way of liquidated damages shall be considered as reasonable compensation without reference to the actual loss or damage which shall have been sustained.

15.3 The decision of the Executive Engineer, in the matter of applicability of the clause of liquidated damages shall be final and binding on the contractor.

15.4 The Executive Engineer may without prejudice to any other method of recovery of such liquidated damages, deduct the amount so payable by the contractor, from any amount due or falling due to the contractor. The payment of deduction of such amounts shall not relieve the contractor from his obligations to complete the work or from any other obligations and liabilities of the contractor under the contract.

15.5 If the contractor fails to execute the work with due diligence and within the prescribed time scheduled for different items of work or refuses or neglects to comply with reasonable orders given to him, in writing by the Executive Engineer in connection with the works, or contravenes the provision of the contract, the Executive Engineer may give notice in writing to the contractor to make good such failure, neglect or contravention. Should the contractor fail to comply with the notice within three days from the date of service thereof, the Executive Engineer shall be at liberty to employ other workmen and forthwith execute such part (s) of work as the contractor may have neglected to or if the Executive Engineer shall think fit, it shall be lawful for him, without prejudice to any other right,

it may have under the contract, to take the work, wholly or in part out of contractor's hands and re-contract and complete the same or any part thereof to the contractor's account and in that event the Executive Engineer shall have free use of contractor's equipment that may have been at the time on site in connection with the work without being responsible to the contractor for reasonable wear & tear thereof and to the exclusion of any right of the contractor over the same, and the Executive Engineer, shall be entitled to retain and apply any amount due to the contractor or such part thereof as may be necessary, to the payment of the cost of executing the said part of the work or of completing the work or executing a part thereof as aforesaid exceeds the balance amount (s) due to the contractor, the contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay, which the contractor shall have to pay if the completion of work is delayed.

15.6 In addition, such action by the Executive Engineer as aforesaid shall not relieve the contractor of his liability to pay liquidated damages for the delays in completion of work.

Clause 16 : Arbitration

16.1 Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever. In any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or conditions of the contract or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be settled amicably between the parties. If amicable settlement cannot be reached, disputes or differences shall be referred for adjudication through arbitration by a sole arbitrator appointed by the Government of Chhattisgarh, P.W.D. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

16.2 It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed in respect of each such dispute along with the notice for appointment of arbitrator.

16.3 It is also a term of this contract that no person other than a person appointed by the Government of Chhattisgarh, P.W.D. as aforesaid, should act as arbitrator and if for any reason that is not possible, the matter shall not be referred to arbitration at all.

16.4 It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claim in writing as aforesaid within 120 days of receiving the intimation from the committee, that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Executive Engineer shall be discharged and released of all liabilities under the contract in respect of these claims.

16.5 The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings un der this clause. It is also a term of this contract that the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases, the arbitrator shall give reasons for the award.

16.6 It is also a term of the contract that if any fees are payable to the arbitrator and any other expenses incurred for arbitration proceedings, these shall be paid equally by both the parties.

16.7 It is also a term of the contract that arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration proceedings shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, to the arbitrator shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

16.8 Notwithstanding anything contained in this contract, the parties shall not be entitled to invoke reference of dispute to the arbitration after acceptance of the final payment until it is so recorded on the bill that the same was being rece ived under protest.

16.9 The award shall be final and binding on both parties. Arbitration proceedings shall be conducted in English language and in India only.

Clause 17 : Jurisdiction and applicable law

Indian Laws will govern this contract and any application in respect of any proceedings under this contract will be to the jurisdiction of the courts of Bilaspur (India) only and also for any application to entertain any suit in connection with this contract. Provided that nothing herein contained shall operate to the prejudice of any

rights/recourses of the Executive Engineer/committee regarding blacklisting or any other matter for which there exists any condition in writing.

Clause 18 : Cancellations of contract

Notwithstanding anything herein contained :

18.1 The Executive Engineer with consent of committee shall have the right to cancel the contract and be entitled to the restitution of all moneys paid by the Executive Engineer to the contractor under this contract alongwith interest at 12% per annum and the damages as assessed by the Executive Engineer with consent of committee in his sole discretion in case the contractor fails to perform the obligations strictly within the time stipulated herein or otherwise fails to discharge the duties and obligations undertaken by the contractor. The work can be got completed at the risk and cost of the contractor and the delivered materials or part thereof may be utilized subject to cost adjustment for the same as determined by the Executive Engineer.

18.2 Provided that in case of any failure or delay on the part of the parties as aforesaid arising out of the force majeure such other party shall not be entitled to rescind or revoke this contract.

18.3 The Executive Engineer with consent of committee reserves the right to cancel the contract in the event of omission/misrepresentation of any material fact.

Clause 19 : Contractor to indemnify the Executive Engineer against Patent Rights

The contractor shall fully indemnify and keep indemnified the Executive Engineer/ committee against any action, claim or proceedings relating to infringement or use of any patent design or any alleged patent or design rights and shall pay any royalties, which may be payable in respect of any article or part thereof i ncluded in the contract. In event of any claims made under or action brought against the Executive Engineer / committee in respect of any such matters as aforesaid, the contractor shall be notified thereof and the contractor shall be at liberty, at his own expenses, to settle any dispute or to conduct any litigation that may arise there from; provided that the contractor shall not be liable to indemnify the Executive Engineer / committee if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Executive Engineer / committee in this behalf.

Clause 20:

The contractor shall be sole and Principal Employer of all labour employed on the work and shall comply with all the Indian Labour Laws as well as other laws, bylaws, orders and instructions issued by any competent authority in this behalf. The

contractor shall be liable for all payments under any law including labour laws as also any compensation required to be paid on account of any injury , accident or mishap.

Clause 21 :

The contract comes into force on the date of signing by the authorized representatives of both parties.

Clause 22 :

The bidder must submit an Affidavit that there is no criminal case regarding construction/s of Athletic track is pending against him and there is no enquiry against him conducted by C.B.I. or any other Such agency failing in Submission of above affidavit the bidder will be disqualified if after submission of such an affidavit it is found that bidder has given false information his tender will be resigned at that stage itself, all deposit shall be forfeited and legal action will be taken against him.

Clause 23 :

Government may appoint Project Management Consultant for the work, if required. If PMC is appointed, it will become a part of committee.

AGREEMENT

This agreement made on this …….....……..…… between the

..... (Here and after referred to as contractor) and the Governor of Chhattisgarh, acting through the Executive Engineer, Bilaspur Division No-1 Bilaspur (here in after referred to as the Executive Engineer, which expression shall unless otherwise excluded by or repugnant to the context be deemed to include its successors, representatives and permitte assignees) of the one part and the contractor (which expression shall unless otherwise excluded by or repugnant to the context be deemed to include its successors, representative and permitted assignees) of the other part.

Where as, pursuant to the offer of the contractor, the contractor has agreed to undertake the following works:

(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.
At State Sport Training Centre Bilaspur, Chhattisgarh.

on Turn Key Basis for a bided value of Rs……..as per the terms and conditions of the work award vide Letter No ……..…….. dated……and terms & conditions annexed here to.

In witness where of, the parties have hereunto set and subscribed their handed seals on the day and the year first above written.

For and on behalf of contractor. For and on behalf of Governor of Chhattisgarh

Executive Engineer
P.W.D. Bilaspur
Division No-1 Bilaspur
(C.G.)

Witness:

1. _____

Address

2. _____

PERFORMANCE GUARANTEE BOND

1. In consideration of the Governor of Chhattisgarh (here in after called the government having agreed to exempt ..... (Herein after called the contractor (s) from the demand under the terms and co nditions of an agreement dated ..... made between …….. for the work (Name of work) ..... (here in after called the said Agreement) of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said agreements on production of a bank Guarantee for Rs. .....Rupees..... Only we. (.)

..... (hereinafter referred to as " the bank (at the request of the said contractor (s) do here by undertake to pay the Govt., an amount not exceeding Rs. ..... against any loss or damage caused to or would be caused to or suffered by the Government, by reasons of any breach by the said contractor (s) of the terms or conditions contained in the said agreement.

2. We (.) ..... do here by undertake to pay the amount due and payable under this guarantee without any demur merely on demand from the Government stating the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor (s) of any of the terms or conditions contained in the said agreements or by reasons of the contractor (s) failure to perform the said agreement, Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee, However our liability under this Guarantee. shall be restricted to an amount not exceeding .....

3. We undertake to pay to the Government any money so demanded not with standing any dispute or disputes raised by the contractor (s) in any suit or proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor (s) shall have no claim against us for making such payments.

4. We (.) ..... further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of said agreement and that it shall continue to be enforce able till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till the Executive Engineer P.W.D. certified that the terms and conditions of the said agreement have been fully and property carried out by the said contractor (s) and terms and conditions of the said

agreement have been fully and property carried out by the said contractor (s) and accordingly discharged this guarantee, unless a demand to claim under this Guarantee is made on us in writing on or before the (here indicate a date which falls 36 months beyond the due date of completion of the work) ..... we shall be discharged from all liability under the guarantee.

5. We (.) ..... further agree with the government that the Govt. shall have the fullest liberty without our consent and with out affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreeme nt or to extend time of performance by the said contractor (s) from time to time or to postpone for any time or for time to time any of the powers exercisable by the Gove. against the said contractor (s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variations. or extension being granted to the said contractor (s) or for barnacle, act or commission on the part of the Gove. or any indulgence by the Govt. to the said contractor (s) or by any such matter or thing what so ever which under the lay relating to sureties would but for this provision have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s).

7. We (.) ..... lastly under take not to evoke this guarantee during its currency except with the previous consent of the Government in writing :-

Dated the ..... day of .....

.....for( ).....( )

indicate the Name of the Bank .....

SOIL INVESTIGATION REPORT

The investigations revealed that in general Disintegrated rock underlain by clay gravel (Moist) is available in the terrain of playground. The gravel mixed soil is availabl e at two locations viz. Pit no 1 & 2 from a depth of 1.60M & 2.00 M Below NGL respectively.

Allowable Bearing Capacity as 15 Tones/sqm for the entire terrain available in the playground .

Annexure -I

TIME SCHEDULE OF WORKS

Time Schedule: Work to be completed within Nine months in all respect from date of work order

Name of work: **(1) Providing & Laying of Global Category (Unfilled) full standard size synthetic (Poly ethylene) Hockey Surface, approved by FIH.**

(2) Providing & Laying of Global Category(Unfilled) full standard size synthetic Athletic Track 8 x 400 m approved by IAAF including construction of sub-base. Drainage System, Providing, Laying, Testing and Commissioning of Fully automatic pop up Sprinkler System & all other works i/c excavation, Dressing and Disposal of unserviceable material upto 1 Km. from site etc.

(3) Poly Urethane Based Flooring including profile correction of the floor with C.C. M-20 for Indoor Stadium On Turn Key basis at Play Field.
At State Sport Training Centre Bilaspur, Chhattisgarh.

S.No.	Items of work	Period of Completion from date of work order.
1	2	3
1	To take possession of the site from the Executive Engineer& mobilization.	
2	Laying of Wet mixed macadam work of sub-base / base concrete i/c required levellling of Ground.	
3	Providing of Drainage System	
4	Approval of job mix formula for bituminous concrete work by Competent Authority.	
5	Laying of first layer of bituminous work.	
6	Laying of top layer of bituminous concrete	
7	Dispatch of material and equipment	
8	Arrival of material and equipment at specified port/Air port	
9	Arrival of material and equipment at site	
10	Date of commencement of laying of Synthetic Athletic track & Astroturf Surface	
11	Completion of laying/fixing of surface at site for track & field/Astroturf Surface competition equipments and handing over to the Executive	

S.No.	Items of work	Period of Completion from date of work order.
1	2	3
	Engineer	
12	Completion of Grassy football Ground as per slandered norms	
13	Submission of samples for testing in FIH, IAAF & WBF accredited laboratory trial use for 30 days.	
14	Inspection of Joint Acceptance Committee	
15	Receipt of Test Report from FIH, IAAF & WBF accredited For and on behalf of Governor of Chhattisgarh Signature of Bidder	

For and on behalf of Governor of Chhattisgarh

Signature of Bidder

Executive Engineer
P.W.D. Bilaspur Division No-1
Bilaspur (C.G.)

Annexure -II

PROPOSED ~~SYNTHETIC~~ SYNTHETIC ATHLETIC TRACK, ASTROTURF & P.U. FLOORING AT STATE SPORT TRAINING CENTRE BILASPUR, CHHATTISGARH.

BILL OF QUANTITIES

A) ATHLETIC TRACK :-

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
	Bldg SOR						
1 (a)	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.					
	1.1.1	In all types of soil	449.28	cum			
1 (b)	1.6	Extra for every additional lift of 1.5 m or part thereof.					
	1.6.1	All types of soil	147.20	cum			
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5	82.70	cum			
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each eposited layer by ramming and watering, including dressing etc. complete.					
		Sand	1002.32	cum			
4	1.24	Diluting chemical emulsion (Chlorpyriphos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five year service guarantee bond to be signed by contractor)					
(A)	1.24.1	Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.	16.00	Sqm			
(B)	1.21	Supplying chlorpyriphos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	5.00	Ltr.			
(C)	3.2	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	16.00	Sqm			
(D)	1.24.2	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	16.00	metre			
(E)	1.24.3	Treatment of outer side of plinth masonry wall	16.00	metre			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).					
5.	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
(A)	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.	25.32	Sqm			
(B)	2.1.6	(ii) Columns,Pillers,Piers and like rectangular or square in shape.	14.40	Sqm			
(C)	2.1.2	Wall of any thickness including attached pilasters, buttresses etc.	551.08	Sqm			
(D)	2.1.9	Beams, lintels, cantilevers & walls	38.84	Sqm			
(E)	2.1.8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	58.78	Sqm			
(F)	2.1.14	Weather shade, chhajja, Cornices and mouldings	1.92	Sqm			
6.	3.1	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.					
(A)	3.1.3	(1 cement : 3 coarse sand : 6 graded stone ggregate 40mm nominal size).	117.60	Cum			
(B)	3.1.4	(1 cement : 2 coarse sand : 4 graded stone ggregate 40mm nominal size).	13.95	Cum			
7.	3.4	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work					
	3.4.2	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	64.97	Cum			
8.	3.14	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:					
	3.14.1	Thermo-Mechanically treated bars	6497.17	Kg			
9.	3.18	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	160.00	Kg			
10.	3.17	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including ormwork.	0.16	Cum			
11.	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:					
		i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air					

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		cure for 4 hours.					
		ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	25.60	Sqm			
12.a	7.2	Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in:					
	7.2.2	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	177.05	Cum			
12 b	7.2	7.2 Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in:					
	7.2.2	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	7.72	Cum			
12 c	7.5	Extra for brick work in superstructure:					
	7.5.1	Above plinth and upto floor five level.	7.72	Cum			
13	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.					
	8.1.2	Sal, bijasal, benteak, khair, haldu	0.05	Cum			
14	8.11	Providing and fixing flush door shutters, interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.					
	8.11.3	30 mm. thick (single leaf)	2.52	Sqm			
15	9.10	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat of red oxide zinc chromate primer..	43.20	Kg			
16	9.45	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately					
	9.45.1	For fixed portion	18.00	Kg			
17	9.45.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).	18.00	Kg			
18	9.46	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	36.00	Kg			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
19	9.49	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):					
	9.49.1	With float glass panes of 4 mm thickness	1.44	Sqm			
20	9.3	3 Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.	1.44	Sqm			
21	8.49	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	6.00	each			
22	8.119	Providing and fixing powder coated M.S. sliding door bolts with bolts, nuts and necessary iron screws:					
	8.119.2	250x16 mm	1.00	each			
23	8.120	Providing and fixing powder coated M.S. door latch with necessary iron screws:					
	8.120.2	250x20x16 mm	1.00	each			
24	8.122	Providing and fixing powder coated M.S. tower bolts (Barrel type) with necessary iron screws:					
	8.122.2	200x10 mm	1.00	each			
25	8.123	Providing and fixing powder coated M.S. handles with necessary iron screws:					
	8.123.1	125 mm	2.00	each			
26	11.4	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 10mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.	12.00	Sqm			
27	11.1	6mm thick cement plaster of mix:					
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)	20.41	Sqm			
28	11.2	12mm thick cement plaster of mix:					
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	579.94	Sqm			
29	11.3	15mm thick cement plaster on the rough side of single or half brick wall of mix:					
	11.3.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	460.82	Sqm			
30	11.5	Neat Cement punning. As per plaster area	96.80	Sqm			
31	11.8	18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge.	208.32	Sqm			
32	12.2	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement..					
	12.2.1	40mm thick	58.69	Sqm			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
33	14.1	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.	69.55	Sqm			
34	14.5	Distempering with acrylic washable distemper to give an even shade.					
	14.5.1	On new work (Two or more coats)	937.55	Sqm			
35	14.13	Painting old exterior surface (one or more coats) with PREMIUM SMOOTH EMULSION paint as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:					
	14.13.1	On new work (Two or more coats)	26.82	Sqm			
36	14.18	Painting on new work (two or more coats) to give an even shade with:					
	14.18.2	Premium synthetic enamel paint (2nd top most approved branded quality) to give an even shade	8.24	Sqm			
37	10.39	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design.	19.20	Metre			
38	22.2	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 10 km (earth measured in stacks will be reduced by 20% for payment).	8010.00	Cum			
39	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 10 km (manure measured in stacks will be reduced by 8% for payment)	1274.90	Cum			
40	22.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	8900.00	Cum			
41	22.9	Mixing earth and sludge or manure in proportion specified or directed.					
		Mixing earth and sand	8900.00	Cum			
42	22.25	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:					
	22.25.4	Carpet grass	17000.00	Sqm			
43	20.26	26 Providing and constructing brick masonry road gully chamber 110x50x77.5 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :	10.00	each			
44	20.14	Providing and fixing in position precast R.C.C. manhole cover and frame L D-2.5 of required hape and approved quality					
	20.14.1	Rectangular shape 600x450mm internal dimensions	2.00	each			
45	12.59	Providing & laying 60mm thick precast interlocking grass paver concrete blocks of	1000.00	Sqm			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		approved size (approx 305 sqcm) and 1000.00 sqm shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength					
46	21.1	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well with in the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	1.00	point			
47	21.5	Drilling of perfectly vertical bore hole of a iameter suitable to receive 150 mm nominal diameter casing pipe up to desired depth below ground evel including providing, lowering and fixing of 150 mm nominal dia ISI marked G.I. casing pipe Medium Class inside the bore hole including all work pertaining to drilling, installation and removal of drilling machine etc. complete .					
	21.5.1	In all types of collapsible strata consisting of soil, clays, sand, moorum, gravel, boulder etc.	14.00	Metre			
	21.5.2	In all types of rock	1.00	Metre			
48	21.15	Development of tube well by Air Compressor of suitable capacity including hire charges for all the required tools and plants etc. complete, for maximum duration of eight hours.	4.00	Hour			
	21.16	Measurement of yield of tube well	1.00	each			
49	21.7	Drilling of perfectly vertical bore hole of 150 mm diameter up to desired depth below ground level in all types of rocks including all works pertaining to drilling such as transportation, Installation and removal of drilling machine etc. complete.	136.00	Metre			
50	21.14	Providing ISI Mark 32 mm dia G.I. (B class) riser pipe in 3 meter length socketed on one end as per IS: 1239 (Part I) 1990 with up to date amendments	40.00	Metre			
	Road SOR						
51	3.12	Construction of embankment / sub-grade with Material Obtained from Borrow Pits (Construction of embankment with approved material/selected soil having C.B.R. > 5 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, preading, grading to required slope and compacting to meet requirement of table 300-2)	39000.00	Cum			
52	4.1	Granular Sub-base as per Table:- 400-1					
		Construction of granular sub-base by providing close graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401					
	(A)	Plant mix method (with Mechanically crushed stone only)					
	(i)	for grading- I Material	2715.00	Cum			
53	4.11	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix	2262.50	Cum			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)					
54	5.1	Prime coat (Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.85 kg/sqm using mechanical means)	9050.00	Sqm			
55	5.9	Dense Graded Bituminous Macadam (Providing and laying dense bituminous macadam with minimum 40-60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.)					
	(A)	With sensor paver finisher					
	(ii)	for Grading II (19 mm nominal size bitumen content 4.50%)	452.50	Cum			
56	5.3	Tack coat Providing and applying tack coat with bitumen using pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom.					
		(i) Normal bituminous surface @ 0.35 kg / Sqm	9050.00	Sqm			
57	5.11	Bituminous Concrete (Providing and laying bituminous concrete with minimum 40-60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.0 to 6.0% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects)					
	(A)	With sensor paver finisher					
	(i)	for Grading-I(19 mm nominal size) with bitumen 5.5 %	452.50	Cum			
58	NSR	Construction of RCC open drain					
		Construction of RCC open drain 0.60m wide & variable Depth lined with 120 mm hick RCC M-20 walls, 120 mm thick CC M-20 foundation, over 100 mm thick (Av) leveling course in PCC M-15 including excavation , dressing of sides and ottom, provision of HYSD reinforcement consisting 8 mm dia horizontal bars @ 150 mm c/c and L-shaped 8 mm dia vertical bars @ 150 mm c/c (L= 800 mm) including cutting , bending and binding wire, placing in position , providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications.	1060.00	Metre			
59	3.24	Construction of RCC Drain/Cover/Chamber					
	(ii)	Construction of RCC drain/cover/chamber placing in position, providing shuttering and concreting by 102.40 cum using concrete mixer, compaction by vibration etc complete as per drawings and	102.40	Cum			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		technical specifications excluding reinforcement.with RCC M-20					
60	(iii)	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications.	6.14	Metre			
61	9.5	Providing and laying Reinforced Cement Concrete pipe NP 3 / prestressed concrete pipe on first class bedding. (Laying Reinforced cement concrete pipe NP3 /prestressed concrete pipe for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)					
	B	600 mm dia	28.00	Metre			
	Elect SOR						
62	26.11	Supplying, installation, testing and commissioning of submersible pump set for water supply system having 5.0 HP, three phase, 230 volts AC induction submersible motor directly coupled with solid coupling to multi-stage submersible pump of discharge capacity of 200 LPM at a head of 60 metres, delivery size 50 mm, in existing bore well of dia. 1000/ 12000 mm, including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection etc. as required.	1.00	each			
63	26.25	Supply, installation, testing and commissioning of cubicle type wall/ floor mounted power cum control panel made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) DOL. starter suitable for 5 HP 3 phase AC induction motor with over load and no volt relay c) 32 A "C" series TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.1.00 set	1.00	Set			
64	NSR	providing and fixing chain link Fencing made of 60mm GI pipe with 2"x2" SWG 1116.00 sqm hot dip galvanized chain link fixed with spit line /wire for tighting angle iron and frame size 2.4x1.8 mtr and complete with all t& p (openable)	1116.00	Sqm			
		SPRINKLER SYSTEM					
65	NSR	Supply and installation of fullly computerized ,automatic and single key operation with 6 pop up sprinkler system having a radius of 41 m at 6bar pressure with 20mm nozle and 11.22 lbs discharge of water specifically designed VP2 "Perrot Germany" or eqalent for synthetic sports Athletic surface including all their fitting and accessories. HDPE pipe dia 150/110MM class pe 100grade 12.5kg/cm2, minimum two sprinklers should work at atime					
		Supplying and installation of 50H.P. coupled pumpling set with electronic controller make like Grudfos/KSR/Calama etc. or equivalent , making connections suitable for T.W./D.C.B./open well.The job includes screwing and welding of flanges on GI B class riser pipes,installation of complete fittings and accessories with riser pipe , jointing of electrical cable and other connections. Layout of the same along with details of product is	1.00	each			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		to be got approved by engineer.					
66	NSR	Providing and laying Synthetic Athletic Track surface (FullPUR, Cast in Situ) including marking on the surface and including required competition equipments all completed as per requirements/ specification laid down by IAAF Class II Certification	9050.00	sqm			
67	NSR	Providing and fixing if IAAF approved instrument.					
	a	Discus Throwing Circle/Ring	2.00	each			
	b	Hammer Throwing Circle/Ring	1.00	each			
	c	Shot Put Throwing Circle/Ring	2.00	each			
	d	Take of boards along with plasticine indication boards and Banking boards for lung jump 4.00 each	4.00	each			
	e	Take of boards along with plasticine indication boards and Banking boards for triple jump	3.00	each			
	f	Stop Board for shot	2.00	each			
	g	Throwing safety cages with required poles and net incl. the ground fixing sleeve and ground hooks etc. for Discus and Hammer Throw.	1.00	each			
	h	Aluminium Track kerbing with fixing arrangments.	1.00	each			
	i	Aluminium fixing arrangement to fix hurdles for water pit/jump in steeple chase along with hurdle	1.00	each			
	j	Pole Vaut Box alongwith Blanking Board	2.00	each			
68	NSR	Providing and laying 150mm dia, PVC pipe with wall thickness 4mm for 6Kg. Pressure special with special ISI Mark collet the Water	520.00	Metre			
69	NSR	Providing and fixing gun metal gate valve with CT wheel of approved quality 40mm dia	10.00	each			
70	NSR	Providing and laying minimum 15cm thick cement concrete slab over the existing Sub base with a nominal mix of 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20mm nominal size) for making throwing circle for Discus/Hammer/Shot put in required Diameter /Size incl. cost of Providing expanded metal mesh of size 20x60mm and strands 3.25mm wide 1.6mm thick weighing 3.64 kg per sqm as reinforcement , centering and shuttering and cost of fixing the required throwing circle rings for discus /hammer/shot put with necessary fixing arrangements and providing and fixing brass tube of 4mm Dia centering hole and providing and laying required drainage pipes in desired position and level including necessary making all complete as per requirement/Specification laid down by IAAF and as per the direction of engineer in charge the finished surface of concrete base slab shall have required non skid /Non slippery finish and gradient as per requirement /secification. (the cost of throwing circle rings is not included in this item and shall be paid as part of competition equipment)	3.07	Cum			
(B) HOCKEY SYNTHETIC TURF							
	A	CIVIL PART					
1	(SOR No. 1.2 P/8)	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cm in depth/ height including disposal of rubbish up to 1.5 m lift and lead up to 50m (at least 5m away from the dressed area).	6388.20	Sqm.			
2	(SOR No. 1.9.1	Extra rate for lead for every 50m average lead up to 500 m beyond 50 m free lead and 1.5 m free lift:					

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
	P/8)						
		For soil	319.41	Cum.			
3	(SOR No. 1.1.1 P/8)	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff up to 1.5 m lift and lead up to 50m (at least 5m away from the excavated area), including dressing and leveling of pits. All Type Soil	2345.67	Cum.			
4	(SOR No. 1.1.17 P/9)	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead up to 50 M. and lift up to 1.5 M.	2345.67	Cum.			
5	(R.SOR No. 4.1 P/18)	Construction of granular sub-base by providing close graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401					
		Plant mix method					
		for grading- I Material	1610.26	Cum.			
6	(R.SOR No. 4.11 P/19)	**Wet Mix Macadam** (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)	1610.26	Cum.			
7	(R.SOR No. 5.1 P/21)	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.85 kg/sqm using mechanical means)	6441.05	Sqm.			
8	(R.SOR No. 5.9 A ii	Dense Graded Bituminous Macadam (Providing and laying dense bituminous macadam with 40-60 TPH HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.) A. With sensor paver finisher,(ii) for Grading II (19 mm nominal size bitumen content 4.5%)	322.05	Cum.			
9	(R.SOR No. 5.3 i P/21)	Tack coat Providing and applying tack coat with bitumen using pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom (i) Normal bituminous surface @ 0.35 kg / Sq m	12882.10	Sqm.			
10	(R.SOR No. 5.11 P/24)	Bituminous Concrete (Providing and laying bituminous concrete with 60-90 TPH hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder @ 5.0 to 6.0% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic pavers finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory					
		and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects)With sensor pavers finisher					

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		for Grading I (19 mm nominal size) with bitumen 5.5 %	322.05	Cum.			
11	(SOR Item No. 12.58.1 Page No. 124)	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sq cm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm					
		colored rubber Polished concrete block	1248.00	Sqm.			
12	(SOR Item No. .1.4 Page No. 22)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.					
		1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	9.20	Cum.			
13	(SOR Item No. 2.1.2 Page No. 08)	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
		Wall of any thickness including attached pilasters, buttresses etc.	75.87	Sqm.			
14	(SOR Item No. 3.2.1 Page No. 23)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works up to floor five level excluding cost of form work.					
		1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	57.22	Cum.			
15	(SOR Item No. 7.1.1 Page No. 50)	Brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sq cm and water absorption not more than 20% in foundation and plinth in:					
		Cement Mortar 1:3 (1 Cement : 3 Coarse Sand)	310.43	Cum.			
16	(SOR Item No. 11.2.2 Page No. 108)	12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	310.43	Sqm.			
17	(SOR Item No. 11.3.2 Page No. 108)	15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	413.90	Sqm.			
18	(SOR Item No. 14.5.1 Page No. 136)	Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats)	724.33	Sqm.			
19	NSR	Providing and fixing chain link fencing made of 100mm GI pipe with 2"x2" of 8 SWG hot dip galvanized chain link fixed with split line/wire for tightening angle iron and frame size 2.4x2.4 Mtr.					
		and height must be up to 8m behind both the goal post in the length of 33m complete with all T&P.(open able)	1100.88	Sqm.			
20	NSR	Providing and construction of R.C.C. storage tank sump well of 100000 liter capacity complete including all excavation and earth work. Disposal	1	No.			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		of surplus soil to distance 500 mt at least or as desired by Engineer-in-Charge and to his satisfaction. One Maintenance Man Hole cover and iron ladder to be provided. Area of tank . (Outer size 9.9 X 3.90 X 3.4)					
21	NSR	Construction of Pump House with Brick Masonry RCC Roof Slab, Kota Stone Flooring, Door and 2 nos. Grilled window including plaster painting & internal, electrification all as per drawing and a security light (inner Size 4.00 X 4.00 and height 3.00meter)	1	No.			
22	NSR	Constructing of RCC drain (including the PCC base, RCC, Plaster 6mm 1:4 & shuttering etc.complete in all respect) excluding cost of cover and plaster. Size of 0.45 m wide with variable depth design and drawing to be first got approved minimum of Reinforced cement concrete M 25 grade concrete & inside surface plastered smooth with neat cement finish, along with side of the Synthetic Hockey Surface, where					
		not provided or at the sides where extension of the Hockey Surface has been done including connection of the drain with the main drainage system for ensuring easy drainage of water including excavation to the satisfaction of engineer in charge.	827.70	Rmt.			
23	NSR	Providing & fixing PRE-CAST drains cover Size 690 X 60 mm (M-20 grade concrete)with proper fixing top of the drain .so that top of the cover lies 10mm below the Synthetic Hockey Surface, for easy drainage of water as per the design and sample approved by engineer in charge.	827.70	Rmt.			
24	NSR	Providing and installation Tube well boring Approximate 150 Meter deep, 5 H.P. Electric Pump of approved make to deliver the required water pressure, along with required electrical installations and connection pipe etc. complete.	1	No.			
B		**SPRINKLEAR SYSTEM**					
25	NSR	Supply and installation of fully computerized, automatic and single key operation with 6 pop-up sprinkler system having a radius of 41 m at 6 bar pressure with 20mm nozzle and 11.22 lps discharge of water specifically designed VP2 "Perrot, Germany" or equivalent for synthetic sports hockey surfaces including all their fittings and accessories. HDPE pipe dia 150/110 MM class per 100 grade 12.5kg/cm2. Minimum two sprinklers should work at a time..					
		Supplying and installation of 50 HP. coupled pumping set with electronic controller make like Grundfos/ KSB/ Kalama etc. or equivalent, making connections suitable for T.W/ D.C.B./ open well. The job includes screwing and welding of flanges on GI B-class riser pipes, installation of complete fittings and accessories with riser pipes, jointing of electrical cable and other connections. Layout of the same along with details of product is to be got approved by engineer.	1	No.			
C		**Turf and goal post**					
26	NSR	Supplying FIH approved global category synthetic hockey surface with polyethylene fiber and cast in situ shock pad laying jointing and fixing the same on the bituminous sub base as per the FIH requirements and the pasting of synthetic grass as per specification of the Global Category FIH competition including all marking on the surface as per FIH rules and standard etc. complete as per the instructions of the engineer-in-charge.	6588.20	Sqm.			
27	NSR	Supplying and fixing of aluminum Goal post of F.I.H approved drawing and design including all	2	No.			

S. NO.	ITEM NO.	PARTICULARS	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT
1	2	3	4	5	6	7	8
		fitting and net.					
(C) P.U. Flooring :-							
1	NSR	Providing and laying 10mm thick indoor seamless cast in situ elastic synthetic floor conforming to latest EN Standards having following specification: **(i)**7mm thick elastic layer of Granular rubber sheet (Specific weight 650kg/cum) Over subfloor using adhesive (solvent free 2 component polyurethane) of hardness 93 shore and tensile strenghth 9N/mm2, joints are sealed with sealer (2 component polyurethane) of hardness 87-91 shore A, tensile strength 5N/mm2. **(ii)** Laying 2mm (average)self levelling layer of colour as approved by the Engineer-in charge in two layer of PU (Mercury/Cadmium free. 2 component polyurethane) hardness 82 shore A, tensile strength 10N/mm2 elongation at break 230% **(iii)** Finally applying a matcoat finish of an absrasion resistant 0.4gm, glossy (3-6%) layer of colour fastness (8) coating (2 component polyurethane). **(iv)** Court marking for different games should be done with PU line paint of required colour complete in all respect to the entire satisfaction of Engineer-in-charge.(N.S)	3900.00	Sqm			

Sub. Engineer
P.W.D. HC. Sub Dn. -2

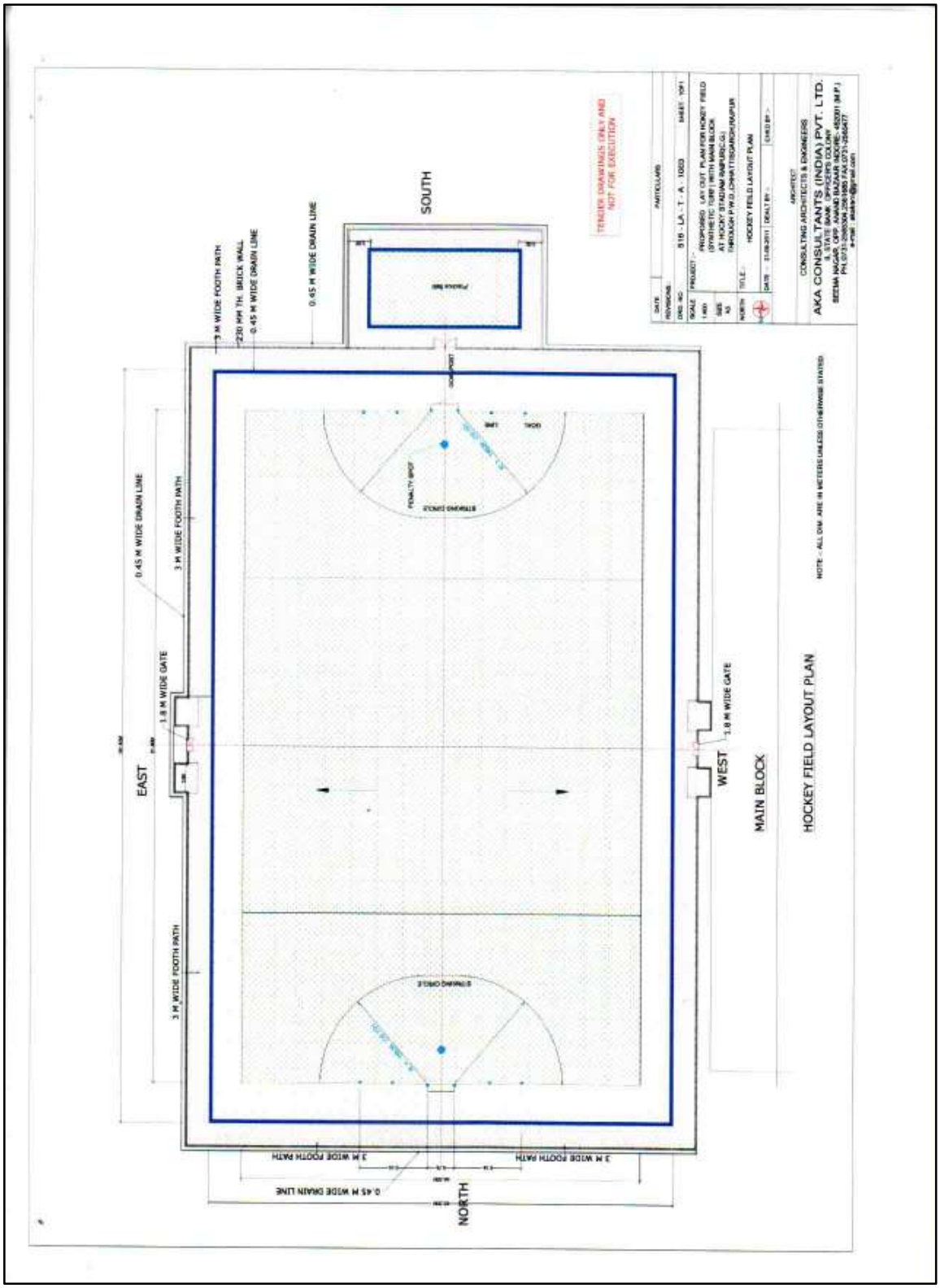
S.D. O.
P.W.D. HC. Sub Dn. -2

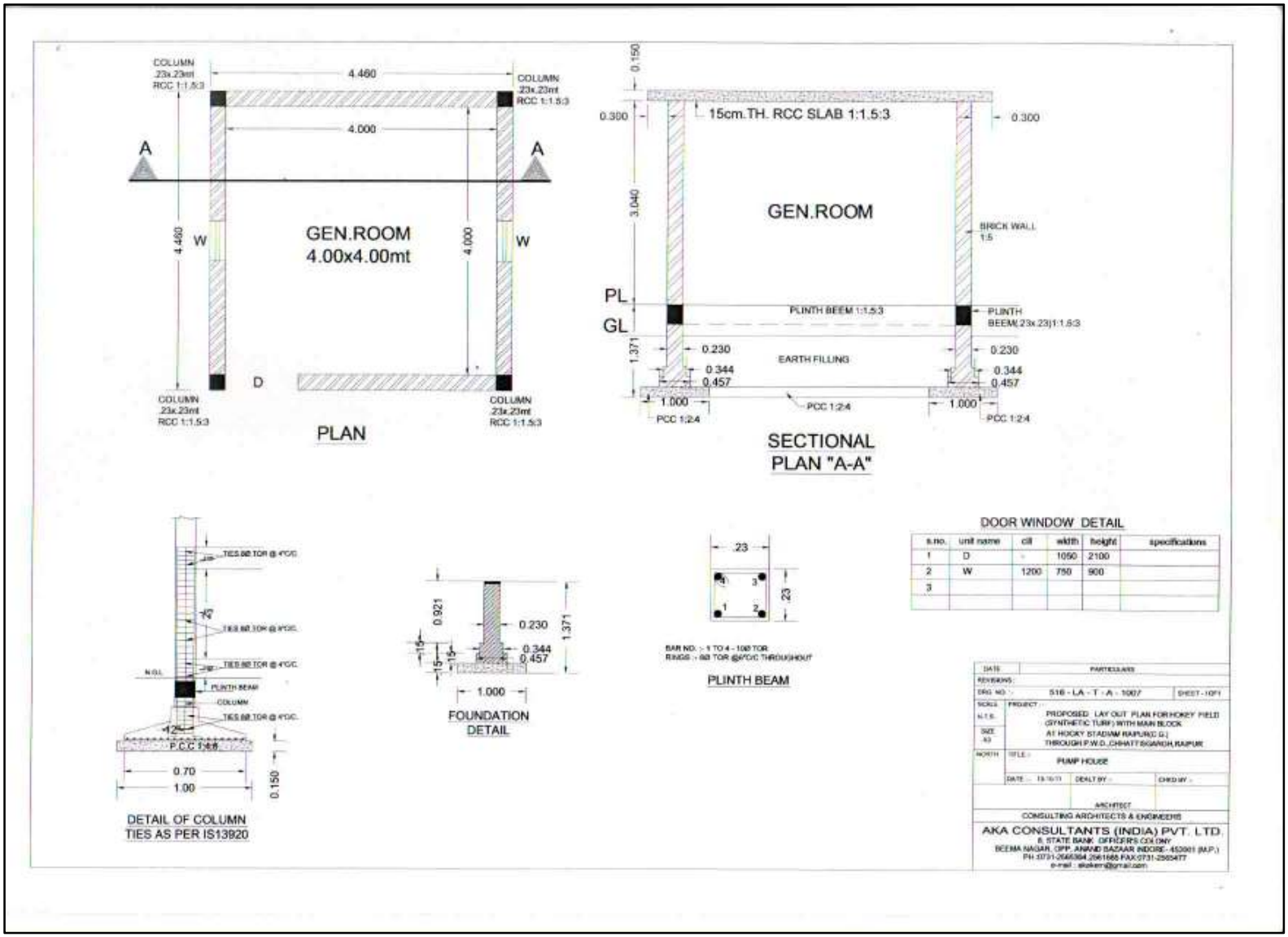
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PWD. Divi. No. 1 Bilaspur

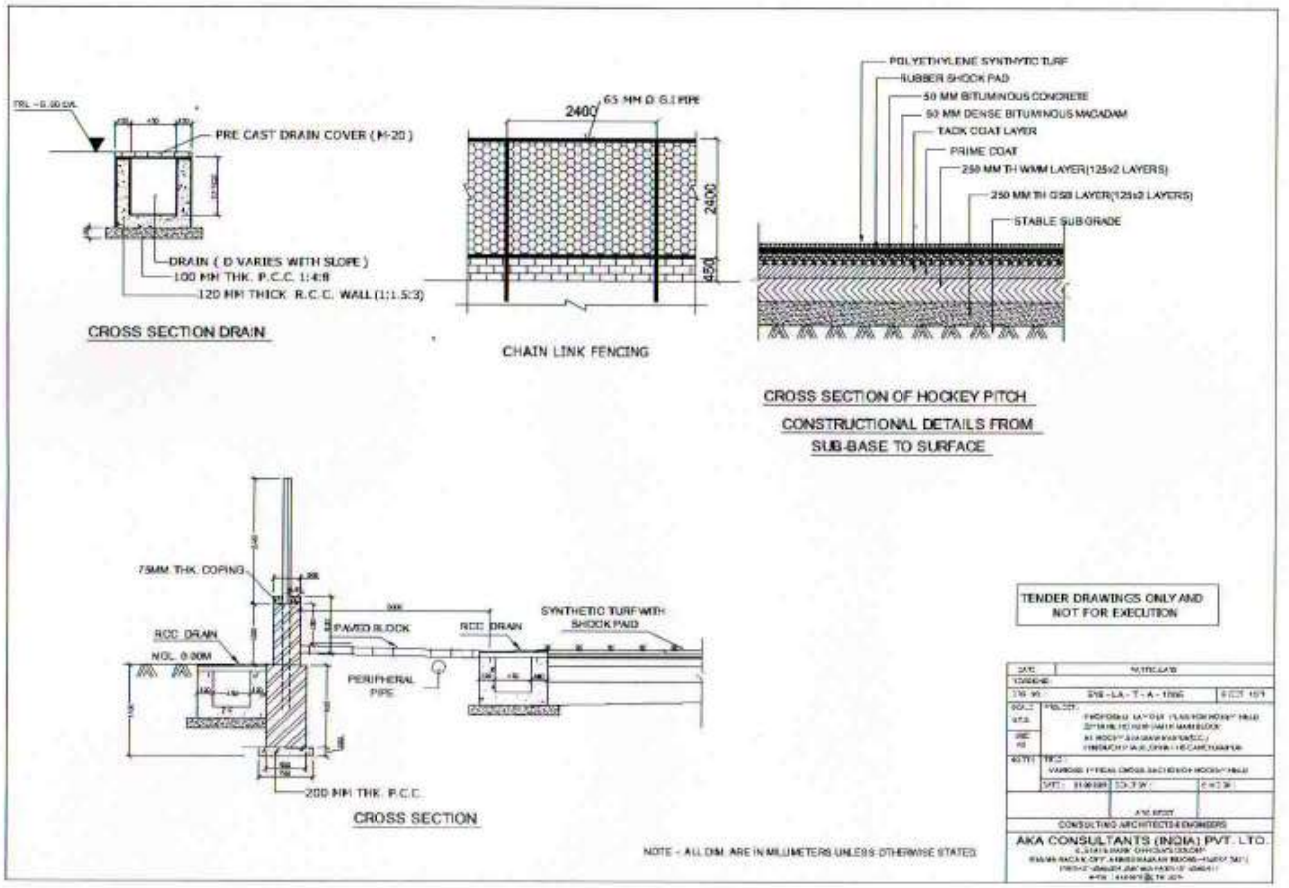
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PWD, Bilaspur Circle Bilaspur

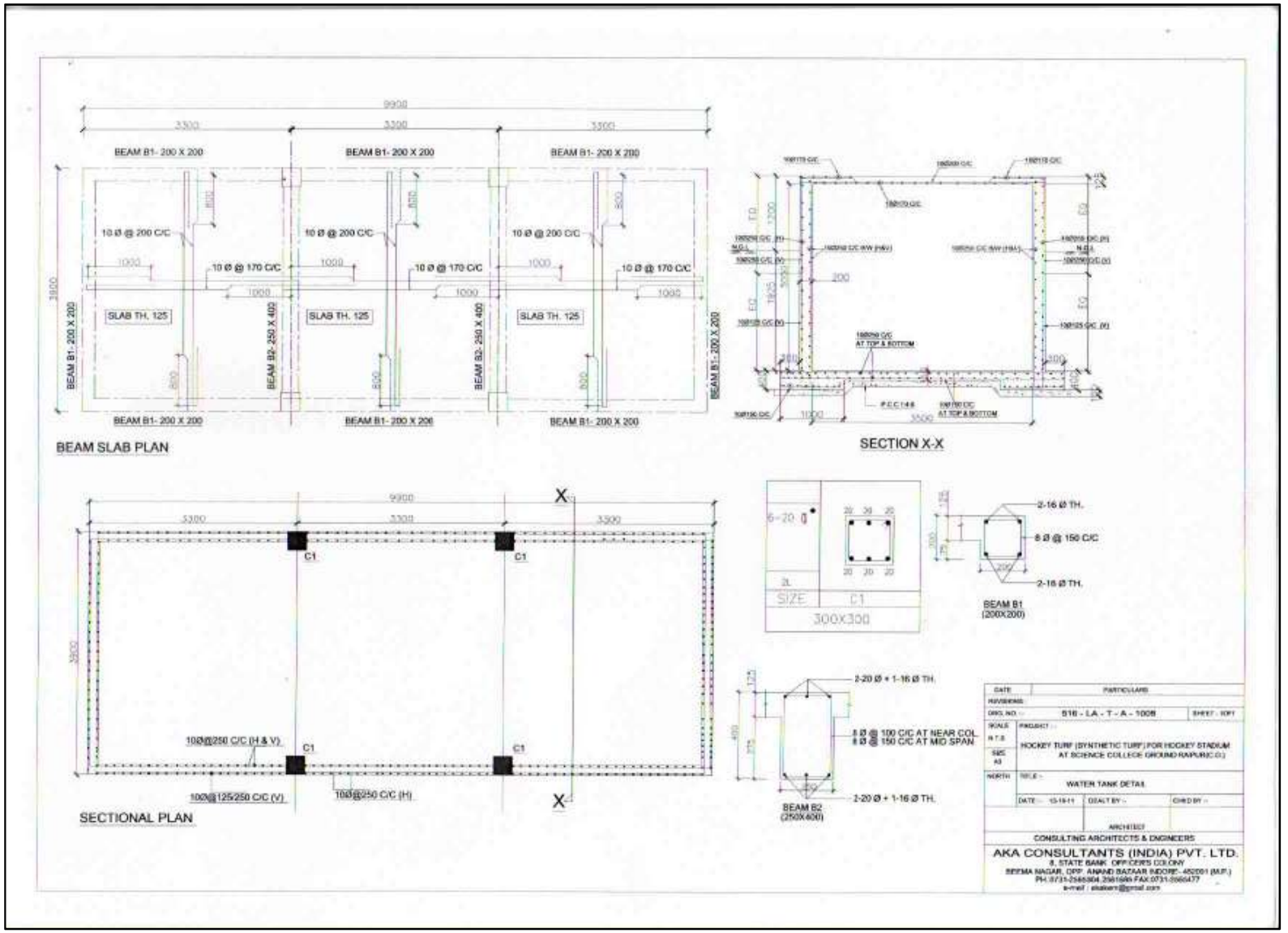
Annexure – III

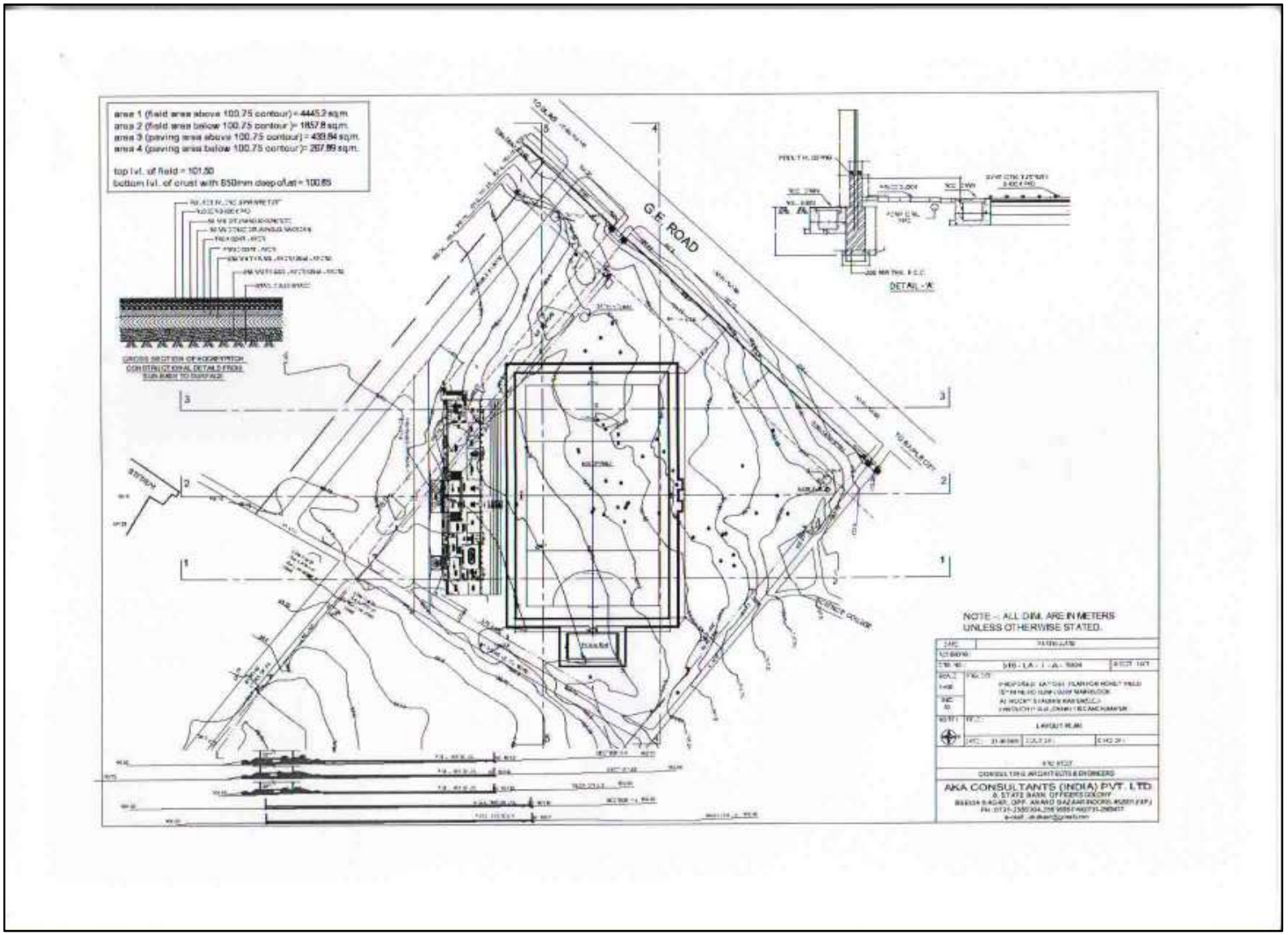
S.No	DETAIL OF DRAWING
1.	TANTATIVE LAYOUT PLAN OF PROPOSED WORK

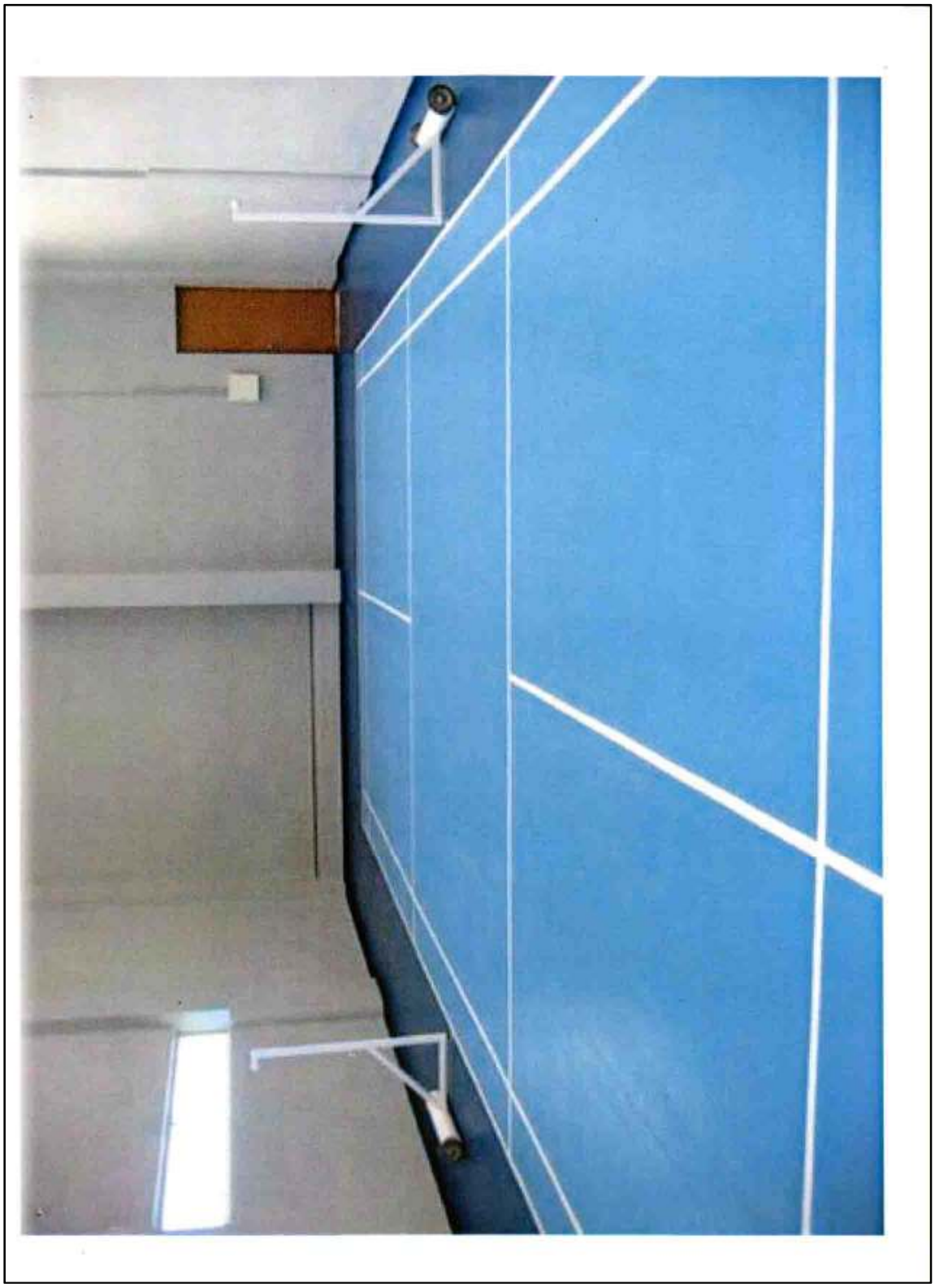

TENDER DRAWINGS ONLY AND NOT FOR EXECUTION
SOUTH
NORTH
EAST
WEST
MAIN BLOCK
HOCKEY FIELD LAYOUT PLAN
3 M WIDE FOOTH PATH
230 MM TH. BRICK WALL
0.45 M WIDE DRAIN LINE
1.8 M WIDE GATE
AKA CONSULTANTS (INDIA) PVT. LTD.
CONSULTING ARCHITECTS & ENGINEERS


COLUMN .23x.23mt RCC 1:1.5:3
4.460
4.000
A
A
GEN.ROOM
4.00x4.00mt
W
W
D
PLAN
0.150
0.300
15cm.TH. RCC SLAB 1:1.5:3
3.040
GEN.ROOM
BRICK WALL 1:5
PL
GL
PLINTH BEEM 1:1.5:3
1.371
0.230
EARTH FILLING
0.344
0.457
1.000
PCC 1:2:4
SECTIONAL PLAN "A-A"
TIES 8Ø TOR @ 4"C/C
PLINTH BEAM
COLUMN
P.C.C 1:4:8
0.70
1.00
0.150
DETAIL OF COLUMN TIES AS PER IS13920
0.921
0.230
0.344
0.457
1.371
1.000
FOUNDATION DETAIL
23
BAR NO. :- 1 TO 4 - 10Ø TOR
RINGS :- 8Ø TOR @4"C/C THROUGHOUT
PLINTH BEAM
DOOR WINDOW DETAIL
s.no. | unit name | cill | width | height | specifications
1 | D | - | 1050 | 2100
2 | W | 1200 | 750 | 900
3
PROPOSED LAY OUT PLAN FOR HOCKEY FIELD (SYNTHETIC TURF) WITH MAIN BLOCK AT HOCKY STADIAM RAIPUR(C.G.) THROUGH P.W.D.,CHHATTISGARGH,RAIPUR
PUMP HOUSE
ARCHITECT
CONSULTING ARCHITECTS & ENGINEERS
AKA CONSULTANTS (INDIA) PVT. LTD.
8, STATE BANK OFFICER'S COLONY
BEEMA NAGAR, OPP. ANAND BAZAAR INDORE - 452001 (M.P.)

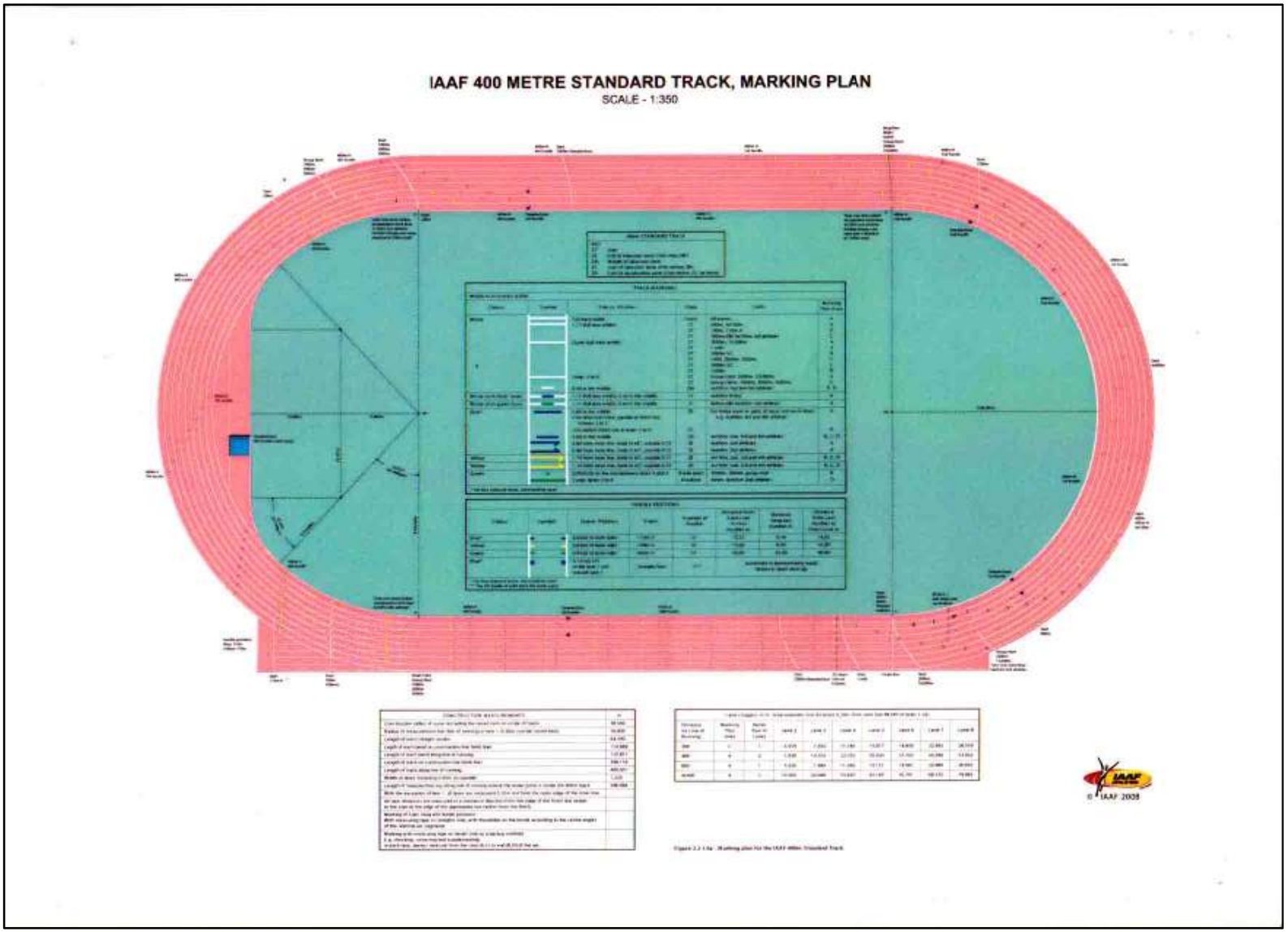

PRE CAST DRAIN COVER (M-20)
DRAIN (D VARIES WITH SLOPE)
100 MM THK. P.C.C. 1:4:8
120 MM THICK R.C.C. WALL (1:1.5:3)
CROSS SECTION DRAIN
2400
65 MM O.D G.I PIPE
2400
450
CHAIN LINK FENCING
POLYETHYLENE SYNTHYTIC TURF
RUBBER SHOCK PAD
50 MM BITUMINOUS CONCRETE
50 MM DENSE BITUMINOUS MACADAM
TACK COAT LAYER
PRIME COAT
250 MM TH WMM LAYER(125x2 LAYERS)
250 MM TH GSB LAYER(125x2 LAYERS)
STABLE SUB GRADE
CROSS SECTION OF HOCKEY PITCH
CONSTRUCTIONAL DETAILS FROM
SUB-BASE TO SURFACE
75MM THK COPING
RCC DRAIN
NGL 0.00M
PAVED BLOCK
RCC DRAIN
SYNTHETIC TURF WITH
SHOCK PAD
PERIPHERAL
PIPE
200 MM THK. P.C.C.
CROSS SECTION
TENDER DRAWINGS ONLY AND
NOT FOR EXECUTION
NOTE - ALL DIM. ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
CONSULTING ARCHITECTS & ENGINEERS
AKA CONSULTANTS (INDIA) PVT. LTD.


BEAM B1- 200 X 200
BEAM B2- 250 X 400
SLAB TH. 125
10 Ø @ 200 C/C
10 Ø @ 170 C/C
BEAM SLAB PLAN
SECTION X-X
SECTIONAL PLAN
C1
10Ø@250 C/C (H & V)
10Ø@125/250 C/C (V)
10Ø@250 C/C (H)
6-20 Ø
SIZE
300X300
2-16 Ø TH.
8 Ø @ 150 C/C
BEAM B1
(200X200)
2-20 Ø + 1-16 Ø TH.
8 Ø @ 100 C/C AT NEAR COL
8 Ø @ 150 C/C AT MID SPAN
BEAM B2
(250X400)
HOCKEY TURF (SYNTHETIC TURF) FOR HOCKEY STADIUM AT SCIENCE COLLEGE GROUND RAIPUR(C.G.)
WATER TANK DETAIL
AKA CONSULTANTS (INDIA) PVT. LTD.
CONSULTING ARCHITECTS & ENGINEERS


area 1 (field area above 100.75 contour) = 4445.2 sqm.
area 2 (field area below 100.75 contour)= 1857.8 sqm.
area 3 (paving area above 100.75 contour) = 439.84 sqm.
area 4 (paving area below 100.75 contour)= 267.89 sqm.
top lvl. of field = 101.50
bottom lvl. of crust with 850mm deep cut = 100.65
G.E. ROAD
DETAIL - 'A'
NOTE :- ALL DIM. ARE IN METERS UNLESS OTHERWISE STATED.
AKA CONSULTANTS (INDIA) PVT. LTD




MINWAX
Super Fast-Drying
POLYURETHANE
FOR
Floors
PROTECTION
Professional Formula
Superior durability for floors
·25% faster recoat time
·No sanding between coats
·Complete project in one day
CLEAR SEMI-GLOSS


IAAF 400 METRE STANDARD TRACK, MARKING PLAN
SCALE - 1:350
© IAAF 2008

Annexure – IV

AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statement made in the required attachment are true and correct.

2. The undersigned also hereby certifies that neither our firm M/S ---------- ---------- have abandoned any work nor any contract awarded to us for such works have been rescinded, during last three years prior to the date of this bid.

3. The undersigned hereby authorize (s) and request (s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Superintending Engineer, Public works Department, Bilaspur, Circle Bilaspur (C.G.) to verify this statement or regarding my (our) competence and general reputation.

4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Superintending Engineer, Public works Department, Bilaspur, Circle ~~No.~~ Bilaspur, (C.G.)

(Signed by an Authorised Officer of the Firm)

Title of Officer

Name of Firm

DATE:

Annexure – V

AFFIDAVIT (Clause 22)