



# **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) TIRUPATI**

## **VOLUME I**

### **TECHNICAL BID**

**CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD  
ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL  
GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME**

**NIT NUMBER: IISERT/ENGG/2025-26/01**

## Index

### **CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME**

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Sl. No	Item	Page Nos
1	e-Tender Notice	2
	<b>Section-I –</b>	
	(I) Notice inviting e-tender	8
	(II) Additional information to the applicants	17
2	Letter of transmittal	18
3	Integrity agreement	21
4	Pre-Qualification Documents- <b>Annexure – I</b>	26
5	CHECK LIST: (Details of Enclosures.)	35
	<b>Section II</b>	
6	Item Rate Tender & contract for works	37
	<b>Section III</b>	
7	General conditions of contract-General Rules & Directions	40
8	Conditions of Contract	46
9	Clauses of Contract , Safety Code, Contractor Labour Regulations	49
10	Form of Performance Bank Guarantee Bond	49
11	Proforma of agreement	51
12	Bid Security Declaration Form	53
13	Appendix- Clause 25	54
14	Proforma of <b>Schedules A to F</b>	55
15	<b>Volume-II:</b> Special conditions of contract and Scope of Work, Technical Specifications & Tender drawings	62
20	<b>Volume III – Financial Bid</b>	101



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान (आईआईएसईआर) तिरुपति  
**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER) TIRUPATI**

एक स्वायत्त संस्थान, शिक्षा मंत्रालय, भारत सरकार  
श्रीनिवासपुरम, जंगलापल्ली गांव, पंगुरू (जी.पी.),  
एर्पेडु (एम), तिरुपति - 517619

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ई-निविदा आमंत्रण सूचना (ई-खरीद मोड)

**NOTICE INVITING e-TENDER (e-Procurement mode)**

भारतीय विज्ञान शिक्षा और अनुसंधान संस्थान, तिरुपति प्रतिष्ठित निर्माण एजेंसियों से दो-भाग खुली बोली प्रणाली में ऑनलाइन मद दर बोलियां आमंत्रित करता है, जो नीचे उल्लिखित कार्य के लिए एनआईटी के खंड 2 और 3 में परिभाषित न्यूनतम आवश्यकताओं के अनुसार पात्र पाए गए हैं:

Indian Institute of Science Education and Research, Tirupati invites online item rate bids in two-part open bid system from reputed agencies, found eligible as per the minimum requirements defined in clause 2 & 3 of NIT for the work mentioned below:

निविदा का संक्षिप्त विवरण: /Brief Details of Tender:

क्र . सं . Sr. No	कार्य का संक्षिप्त विवरण Description of work in Brief	बोली हेतु अनुमानित लागत (रु.) Estimated cost put to bid (Rs.)	बयाना राशि (रु.) Earnest Money (Rs.)	समापन की अवधि Period of Completion	बोली-पूर्व बैठक दिनांक और समय Pre bid meeting Date & time	तकनीकी बोली प्रस्तुत करने की अंतिम तिथि एवं समय Last date & time of submission of technical bid	तकनीकी बोलियों के खुलने का समय & तिथि Time & date of opening of technical bids
1.	खेलो इंडिया योजना के तहत आईआईएसईआर तिरुपति, एर्पेडु में विश्व एथलेटिक मानकों के अनुसार 400 मीटर 8-लेन सिंथेटिक एथलेटिक ट्रैक का निर्माण, संबद्ध खेल ट्रैक और फुटबॉल ग्राउंड का निर्माण एनआईटी संख्या- आईआईएसईआरटी/अभियां त्रिकी /2025-26/01 CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME NIT NUMBER- IISERT/ENGG/2025-26/01	9,39,24,729/-	28,17,742 /-	8 महीने Months	09/07/2025 11:00 घंटे 11:00 Hrs	23/07/2025 15:00 घंटे 15:00 Hrs	24/07/2025 15:30 घंटे 15:30 Hrs

निविदा दस्तावेज केंद्रीय सार्वजनिक खरीद (सीपीपी) पोर्टल <https://eprocure.gov.in/eprocure/app> या संस्थान की वेबसाइट [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in) से डाउनलोड किया जा सकता है और निविदा जमा करने की अंतिम तिथि और समय तक केवल ई-प्रोक्योरमेंट पोर्टल के माध्यम से ऑनलाइन जमा की जानी है।

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app> or Institute website [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in) and bid is to be submitted online only through the E-procurement portal up to the last date and time of submission of tender.



**निविदा की महत्वपूर्ण तिथियां /Critical Dates of Tender**

क्र. सं. S.No	विवरण/Particulars	तारीख/Date	समय घंटों में Time in Hrs
1	ऑनलाइन प्रकाशन की तिथि Date of Online Publication	04/07/2025	09:00
2	तकनीकी बोली जमा करने की प्रारंभ तिथि Technical Bid Submission Start Date	10/07/2025	15:30
3	बोली-पूर्व बैठक/Pre-Bid Meeting	09/07/2025	11:00
4	तकनीकी बोली जमा करने की अंतिम तिथि Technical bid Submission Close Date	23/07/2025	15:00
5	तकनीकी बोलियों का खुलना Opening of Technical bids	24/07/2025	15:30

**No manual bids will be accepted. Bids should be submitted in the E-procurement portal.**

**Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 0120-4200462, 0120-4001002, 91-8826246593.**

**1) Information & Instructions for Online Bid Submission:**

- 1.1 This tender document has been published on the Central Public Procurement Portal (URL:<https://eprocure.gov.in/eprocure/app>)& Institute website [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in).
- 1.2 The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>
- 1.3 The intending bidder must read the terms and condition of NIT carefully. Bidder should submit his bid only if he considers himself eligible and he is in possession of all the required documents.
- 1.4 Bid documents should be submitted online complete in all respect along with requisite amount of tender fee (cost of bid documents). Complete set of tender documents comprising Volume I, II, III has been made available at e-tender portal (URL:<https://eprocure.gov.in/eprocure/app>)
- 1.5 The bidder would be required to register at e-tender portal URL:<http://eprocure.gov.in/eprocure/app> . For submission of the bids, the bidder is required to have digital Signature Certificate (DSC) from one of the authorized Certifying Authorities.
- 1.6 Information and instruction for bidders posted on website shall form part of the bid document.
- 1.7 The bid document consisting of Vol-I – Technical bid, Vol-II- Technical specifications, Vol-III- Tender drawings and the set of terms and conditions of the contract to be complied with and

other necessary documents can be seen and downloaded from website ([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)) free of cost.

- 1.8 But the bid can only be submitted after uploading the mandatory scanned documents such as receipt of online payment towards tender fee, in favour of Director, IISER Tirupati, scan copies of other required documents as specified in the NIT. The tender fee should be deposited online with IISER Tirupati within the period of bid submission as specified in the bid document.
- 1.9 Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid class-III digital signature to submit the bid.
- 1.10 On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 1.11 Contractor can upload documents in the form of JPG format and PDF format.
- 1.12 Certificate of Financial Turn Over: At the time of submission of bid contractor may upload Affidavit/ Certificate from CA mentioning Financial Turnover of last 3 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
- 1.13 The tender document can be downloaded from <http://eprocure.gov.in/eprocure/app> and be submitted only through the same website.

## **2. REGISTRATION of Bidder on e-Procurement Portal**

- 2.1 Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link "Click here to Enrol". Enrolment on the CPP Portal is free of charge.
- 2.2 As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 2.3 Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 2.4 Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 2.5 Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 2.6 Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.
- 2.7 The CPP Portal also has user manual with detailed guidelines on enrolment and participation in the online bidding process. Any queries related to process of online bids or queries related to CPP Portal may be directed to the 24x7 CPP Portal Helpdesk.

2.8 The Institute will not be responsible for any type of technical issue regarding uploading of tender on website. [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) and any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **0120-4200462, 0120-4001002, 91-8826246593**.

### **3. SEARCHING FOR TENDER DOCUMENTS**

3.1 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

3.2 Once the bidders have selected the tenders they are interested in; they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3.3 The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **4. PREPARATION OF BIDS**

4.1 Bidder should take into account any corrigendum published on the tender document before submitting their bids.

4.2 Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

4.3 Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS formats. Bid documents may be scanned with 100 dpi with black and white option.

4.4 To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **5. SUBMISSION OF BIDS**

5.1 Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

5.2 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

- 5.3 The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 5.4 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 5.5 Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 5.6 Kindly add scanned PDF or JPG format files of all relevant documents in a single PDF file of compliance sheet.

## **6 ASSISTANCE TO BIDDERS**

- 6.1 Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 6.2 Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **0120-4200462, 0120-4001002, 91-8826246593.**



## INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH(IISER) TIRUPATI

### SECTION I - i) NOTICE INVITING e-TENDERING

1. Indian Institute of Science Education and Research, Tirupati invites online item rate bids in open bid system from reputed construction agencies, found eligible as per the minimum requirements defined in clause 2 & 3 of NIT for the work mentioned below:

Name of work & Location	:	CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME
NIT NUMBER	:	IISERT/ENGG/2025-26/01
Estimated cost	:	Rs. 9.39 Crores
Period of completion	:	8 Months
Tender Fees	:	Rs. 590/- Inclusive of GST (Five Hundred and Ninety only) – (Non – refundable)
Last Dates & time to fill/upload the tender through e-tendering.	:	up to 15:00 hrs on 23/07/2025.
Pre bid meeting date & Time	:	At 11:00 hrs through hybrid mode on 09/07/2025
Time & date of opening of Technical Bids	:	At 15:30 hrs on 24/07/2025

2. The applicant should be a well-established and reputed Contractor/agency enlisted in CPWD/State PWD/Govt Autonomous bodies etc. fulfilling following requirement will be eligible to apply.

**Joint Ventures shall not be acceptable.**

- a) Should have experience of having successfully completed works during the last seven years ending previous day of the last date of submission of tenders
- (i) Three similar works each costing not less than Rs. **3.76 Crores** or
  - (ii) Two similar works each costing not less than **Rs 5.64 Crores** or
  - (iii) One similar work costing not less than **Rs 7.52 Crores**
- b) Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work. Bidder shall submit abstract of cost of work in support of this.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of receipt of applications for tender.

Similar work means: Construction of World Athletics (Earlier IAAF) Certified Synthetic Athletic Track cast-in-situ Sandwich System including complete sub base in individual capacity and not as joint venture. Documentary evidence is required to be produced.

This should be certified by an officer not below the rank of Executive Engineer in Govt. Departments and Superintending Engineer/ Chief Project manager or Equivalent in other organizations.

- c) Should have had average financial turnover (Gross) of at least Rs **5 Crores** on Synthetic Athletic Track works during the immediate last three consecutive years' balance sheets duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average. No enhancement in the value of turnover for the past years shall be made for bringing them to current turnover level.
- d) Should not have incurred any loss (profit after tax should be positive) during the immediate last two consecutive financial years ending 31<sup>st</sup> March, 2025, duly certified and audited by the Chartered Accountant.
- e) Should have solvency of **Rs. 4 Crores** certified by a Scheduled Bank and obtained not earlier than six months before the date of submission of Bid.

### **3. CONTRACT ELIGIBILITY CRITERIA**

Further, the contract eligibility includes the following:

- 3.1 Experience on similar type of at least 3 completed works executed during the last seven years;** and details like monetary value, clients, proof of satisfactory completion.

Similar work means: Construction of World Athletics (Earlier IAAF) Certified Synthetic Athletic Track cast-in-situ Sandwich System including complete sub base in individual capacity and not as joint venture.

The works executed only in India will be considered for similar work experience.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum, calculated from the date of completion to previous day of last date of submission of tender.

- 3.2 Enlistment/Registration with specified departments (CPWD, State PWDs, MES, Railways, PSUs etc.), Sports Authority of India/ Organizations, class / type of registration or previous pre- qualification(s) for similar projects.
  - 3.3 Documentary evidence of adequate financial standing, Certified by Bankers, Audited Profit & Loss A/c and Balance Sheet, Annual turnover in last three years, access to adequate working capital.
  - 3.4 Information regarding projects in hand, current orders, regarding litigation, exclusion/expulsion or black listing, if any.
  - 3.5 Bidders not meeting the minimum eligibility criteria shall be summarily rejected.
  - 3.6 Copy of the enlistment order and certificates of work experience and other required as specified in the bid documents shall be scanned and uploaded to the e-tendering website within period of bid submission.
  - 3.7 **The proposed product (Sandwich system) should be certified by World Athletics (Earlier IAAF) for a minimum thickness of 14MM. Necessary World Athletics certificate should be enclosed.**
  - 3.8 Bidder should not have been blacklisted by any state/Central Departments/PSUs/Sports Authority of India, Autonomous bodies during the last 7 years of its operations. Affidavit shall be made in current date after the date of invitation of the tender as per **Form F** and shall be furnished on a 'Non-Judicial' stamp paper worth Rs.100/- otherwise the tender shall be rejected.
  - 3.9 Certification for the Synthetic Athletic track from the World Athletics for the similar works submitted.
  - 3.10 Affidavit for not executing the works as back-to-back basis.
  - 3.11 Declaration about site inspection
- 4 The time allowed for carrying out the work will be **8 Months** from the date of start as defined in schedule 'C' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender.
- 5 The bid document is Two stage two Envelope e-tendering system can be seen from the Central Public Procurement Portal ([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app))& Institute website [www.iiserTirupati.ac.in](http://www.iiserTirupati.ac.in) The contents of Envelope I & Envelope II are specified in the NIT.

#### **6 Submission of Technical Bid Documents**

Information and instruction for bidder for e-tendering forming part of bid document uploaded on website. Last date and time of submission of technical bid, Tender fee and other documents as specified in the NIT.

#### **List of Document to be scanned and uploaded within the period of bid submission:**

- I. Transaction Receipt of online deposit of tender fee and EMD declaration form.
- II. Enlistment Order of the Contractor (Attested copy) if required.
- III. Certificates of work Experience certificates submitted shall clearly indicate the:
  - i Type and nature of work
  - ii Completion cost

- iii Time period, actual completion date.  
In case, if any of above details are not included in the work done certificates, then such bids will not be considered for opening.
- IV. Certificate of Registration for
- V. GST and acknowledgement of up to date filed return if required.
- VI. **Scanned Copies of all eligibility documents required as per NIT required for Technical Evaluation clause 19 -Annexure –I**

Tender documents should be submitted online complete in all respect along with requisite amount of tender fee (cost of bid document). Complete set of tender documents comprising Volume I, II, III and financial bids has been made available at e-tender portal <http://www.eprocurement> & [www.iiserTirupati.ac.in](http://www.iiserTirupati.ac.in)

- 7 Director, Indian Institute of Science Education & Research, Tirupati shall be the "Accepting Authority" hereinafter referred to as such for the purpose of this Contract.
- 8 Bids must be accompanied by tender fee and bid-security/EMD (Earnest Money Deposit) for the work in clause 9 & 10 payable at Tirupati.
- 9 Tender fee shall be Rs. 590/-, inclusive of GST (Five Hundred Ninety only) non-refundable fee required to be deposited in **IISER Tirupati Bank account** through net banking as detailed below failing which the bid will be declared non-responsive.

**a) Bank A/c Details for crediting Tender Fee:**

Name: IISER Tirupati  
Bank: State Bank of India, Korlagunta  
Branch Account No: **39721824884**  
IFSC Code: SBIN0001901

Scanned copy of the net banking transaction receipt towards payment of tender fee shall be uploaded on the e-tendering website within the period of bid submission failing which the bid will be declared non-responsive.

- 10 **Bid Security/ Earnest Money Deposit (EMD):** All other bidders should submit an EMD of Rs.28,17,742/- in the form of DD/ NEFT /RTGS.

**a) Bank A/c Details for crediting EMD:**

Name IISER Tirupati  
Bank: State Bank of India, Korlagunta  
Branch Account No: **35029946671**  
IFSC Code: SBIN0001901

**11 Pre-bid meeting**

- 11.1 The Bidder or his officially authorized representative is invited to attend a pre-bid meeting, which will be through Hybrid mode. Bidder/ bidder representative who wish to attend Pre-bid meeting



online should email to [engineering@iisertirupati.ac.in](mailto:engineering@iisertirupati.ac.in) requesting for participation, for the online link to be shared. The Pre-Bid meeting will be held hybrid on 09/07/2025 at 15:00 Hrs.

11.2 The purpose of the meeting is to clarify issues and to answer questions on matters that may be raised at that stage.

11.3 The Bidder is requested to submit their questions/ queries/ clarifications in writing or by email/ fax to reach the IISER Tirupati before the meeting. Bidders can send Pre-bid queries on their letter head referring tender number by Speed post on above said address so as to reach IISER Tirupati or on e-mail address [engineering@iisertirupati.ac.in](mailto:engineering@iisertirupati.ac.in) before 09/07/2025 up to 10:00 Hrs.

11.4 Minutes of the meeting (MOM), including the text of the questions raised (without identifying the source of enquiry) and the responses given will be uploaded as corrigendum on website ([URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)) and [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in)

12 Any modification of the bidding documents which may become necessary as a result of the pre-bid meeting shall be made by the IISER, Tirupati through pre bid MOM and this shall form part of bidding document.

13 IISER Tirupati reserves the right to reject any prospective applicant without assigning any Reason and to restrict the list of technically qualified bidders to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

#### **14 Site visit, availability of site and cost of bidding**

14.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the IISER, Tirupati will in no case be responsible and liable for these costs.

14.2 The Bidder should inform the IISER in advance about the proposed site visit.

14.3 The Bidder mandatorily need to visit the site, inspect and survey the Site and its surroundings and satisfy himself before submitting his bid as to the form and nature of the Site, the means of access to the Site, the accommodation he may require, etc. The required site inspection form is to be submitted for consideration of the bid.

14.4 In general, Bidders shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may 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 claims due to any misunderstanding or otherwise shall be allowed.

14.5 The costs of visiting the Site shall be at the Bidders' own expense. Any report shared at the site, by the IISER is subject to verification by the contractor. Any deviations of information in the report and the actual site will not be the responsibility of the IISER.

14.6 The site for the work is available.

## **15 Content of Bidding Documents**

15.1 Submission of a bid by a 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 executed and local conditions and other factors having a bearing on the execution of the works.

15.2 The Bidder shall submit the Bid, which satisfies each and every condition laid down in the bid documents, failing which, the bid is liable to be rejected.

15.3 Notice Inviting e-Tender shall form part of the Contract document.

15.3.1 The documents listed below comprises one set of bid document that are issued to Bidders: **PART – I**

### **Technical Bid Envelope –I**

#### **Volume I**

- a) Notice Inviting Tender (Including eligibility criteria)
- b) Tender Form and General Rules and Directions for the Guidance of the Contractor
- c) General Conditions of Contract
- d) Safety Code for Contract Work
- e) Proforma of Schedule A to F

**Volume- II:** Special Conditions & PARTICULAR SPECIFICATIONS of Contract & Tender Drawings

#### **PART-II**

#### **Envelop II – (Financial bid)**

**Volume –III:** Financial bid Schedule of quantity (BOQ).

## **16 Amendment of Bid Documents**

16.1 Before the deadline for submission of bids, the IISER Tirupati may modify the bidding documents by issuing corrigendum.

16.2 Any corrigendum so issued shall be part of the bid documents as well as Contract document and shall be on uploaded website [URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app) and [www.iisertirupati.ac.in](http://www.iisertirupati.ac.in). Bidders should take note of the uploaded corrigendum and submit the tenders accordingly.

## **17 Bid Validity**

17.1 The bid submitted shall become invalid if:

- (i) The bidders are found ineligible.
- (ii) The bidder does not deposit Online tender fee with IISER Tirupati before the date and time fixed for opening of the bids.
- (iii) The bidders do not upload all the documents (including GST registration) as stipulated in the bid document.

- (iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

17.2 The bids submitted shall remain valid for acceptance for a period of 90 days from the date of opening of the technical bids.

## **18 Technical bid Opening**

Online bid documents submitted by intending bidders shall be opened only of those bidders, whose tender fee and EMD declaration form submitted with IISER Tirupati and scanned their scanned copies i/c tender documents scanned and uploaded are found in order.

## **19 Technical Evaluation of the bids**

19.1 The bidder qualifying initial criteria as set out in Para 2 & 3 and the details furnished by bidders in the Proforma 1 and **FORM A to Form H** enclosed as **Annexure-1** of Section II will be evaluated by the IISER Tirupati technical evaluation committee appointed by the competent authority. Performa's listed are elaborated below,

- i Initial bidding capacity Proforma I,
- ii Financial Information **FORM "A"**
- iii Solvency certificates from a scheduled bank - **Form B**
- iv Details of similar works -- **Form C**
- v Performance report of works referred to in **Form D**
- vi Organisation structure in **Form E**
- vii PROFORMA OF AFFIDAVIT FOR NON - BLACK LISTING- **Form F**
- viii **Enlistment in SAI, CPWD, State PWD, MES, Govt Autonomous bodies etc.**
- ix Certificates for completed works and for the proposed product from the World Athletics Body.
- x Affidavit for not executing the works as back-to-back basis- **Form G**
- xi Declaration about site inspection - **Form H**

The bidders qualifying the initial eligibility criteria as set out in clause no 2 & 3 above will be evaluated based on the information submitted by bidders as per clause no 19.1 after due verification and selection will be made by IISER, TIRUPATI on the basis of the strength of individual applicants. Main consideration will be the ability of the Principal Contractor to fulfil technical, financial, contractual and legal obligations. Special emphasis will be laid on competence to do good quality works within specified time schedule and in close coordination with other agencies over and above the rate structure of the items.

IISER Tirupati reserves the right to waive off minor deviations in the eligibility, if the technical evaluation committee consider that they do not materially affect the capability of the bidder to perform the contract. IISER Tirupati decision in this regard shall be final and binding & conclusive.

## **20. TECHNICAL EVALUATION CRITERIA:**

The bidders qualifying the initial eligibility criteria, as set out in Para 2 & 3 above, will be evaluated for following criteria by the technical committee.

- 20.1 Evaluation of performance: Evaluation of the performance of the bidders for eligibility shall be done by the committee constituted by the Director, IISER Tirupati. All the eligible similar works executed and submitted by the bidders may be got inspected by a committee which may consists client or any other authority as decided by the competent authority. Performance of Works (Quality) shall be accessed based on this inspection, if inspection is carried out otherwise on the basis of the performance report given by the client department officer not below the rank of Executive Engineer.
- 20.2 Even though a bidder may satisfy the above requirements, he would be liable for dis-qualification if he has:
- (a) Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the pre-qualification document.
  - (b) Records of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

## **PART II**

### **21 Financial /Price bid**

- 21.1 After technical evaluation of (part I) bids as per clause 2, 3 & 20 above only short listed agencies financial bids shall be opened at the notified date and time.

### **22. Clarification of Bids**

- 22.1 To assist in the examination and comparison of Bids, the IISER, Tirupati may, at its discretion, ask any Bidder for clarification of his Bid, including breakdown of unit rates. The request for clarification and the response shall be in writing or by email / fax, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the IISER, Tirupati in the evaluation of the bids.
- 22.2 No Bidder shall contact the IISER, Tirupati on any matter relating to his bid from the time of the bid opening to the time the contract is awarded.
- 22.3 Any effort by the Bidder to influence the IISER's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.
23. Indian Institute of Science Education and Research Tirupati, does not bind itself to accept the lowest or any other bid, and reserves the right to reject any or all of the tenders received without assigning any reasons. Bids in which any of the prescribed conditions are not fulfilled or any conditions including that of the conditional rebate put forth by the bidder shall be summarily rejected.
24. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer-in-charge or his representative's estimate of the cost of work to be executed under the contract, the IISER, Tirupati may require the Bidder to produce detailed rate analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those rates with the implementation/construction methods and schedule proposed.

### **25 Award Criteria**

- 25.1. IISER Tirupati reserves the right without being liable for any damages or obligation to inform the bidder to:
- a) amend the scope and value of the contract to the bidder
  - b) Reject any or all applications without assigning any reasons
- 25.2 IISER, Tirupati shall award the contract to the Bidder whose evaluated offer / bid has been determined to be the technically suitable and financially lowest and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to execute the contract satisfactorily. The Board of Governors of IISER reserves the right to accept or reject any application and to annul the pre-qualification process and reject all applications at any time, without thereby incurring any liability to the affected applicants or specifying the grounds for the Employer's action
- 26 Contractor whose tender is accepted will be required to furnish Performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule C. This guarantee shall be in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'C'. including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor and without prejudice to any other right or remedy. The Earnest Money deposited along with tender shall be returned after receiving the aforesaid performance guarantee. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.
- The contractor whose bid is accepted will also be required to furnish either copy of the applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC, and BOCW Welfare Board i/c provident Fund Code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work and programme chart (Time and Progress) within the period specified in Schedule F.
- 27 Bidder shall quote rates for all items in the BOQ of work in the financial bid document. It will be obligatory on the part of the tenderer to sign the tender document for all the components (The schedule of quantities, conditions and special conditions etc.)
- 28 **Disclosures**
- Any change in the constitution of the contractor's firm, where it is a partnership firm, as declared in the prequalification documents submitted by the bidders at the time of submission of prequalification documents, should be disclosed to the IISER, Tirupati, at any time between the submission of bids and the signing of the contract.

## **SECTION I**

### **ii) ADDITIONAL INFORMATION AND INSTRUCTION TO APPLICANTS**

#### **1.0. GENERAL**

#### **1.1 STATEMENT OF OBJECTIVES, BRIEF SCOPE & PARTICULARS OF THE WORK**

The entire Project will be executed under a Single Point Responsibility system.

Construction of 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND as per the approved design and schedule of quantities. The Drawings are indicative.

Work shall in general be executed as per, general conditions of the contract, particular Technical Specifications, applicable standards and codes of the Sports Authority of India, World Athletics (Formerly IAAF), FIFA, etc.

Particulars given above are provisional and liable to change and must be considered only as advance information to assist the bidder.

1.2. Letter of transmittal and other forms for pre-qualification are attached (Annexure I)

1.3. All information called for in the enclosed forms should be furnished against the respective columns in the forms. If information is furnished in a separate document, reference to the same should be given against respective columns. Such separate documents shall be chronologically placed at the end of the prescribed application. If information is 'nil' it should also be mentioned as 'nil' or 'no such case'. If, any particulars/query are not applicable in case of the applicant, it should be stated as 'not applicable'. However, the applicants are cautioned that not giving complete information called for in the application forms required, not giving it in clear terms or making change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by Fax and those received late will not be entertained.

1.4. References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Superintending Engineer/Chief Project Manager or equivalent.

1.5 The Tenderer is advised to attach any additional information which he thinks is necessary in regard to his capabilities to establish that the applicant is capable in all respects to successfully complete the envisaged work. He is however, advised not to attach superfluous information. No further information will be entertained after pre-qualification document is submitted, unless it is called for by Employer.

#### **1.6 LETTER OF TRANSMITTAL**

The applicant should submit the letter of transmittal attached with tender document duly signed by the agency.

1.7 INTEGRITY AGREEMENT duly signed by the agency along with letter is required to be submitted by the agency.

## LETTER OF TRANSMITTAL

From

To

THE DIRECTOR

INDIAN INSTITUTE OF SCIENCE EDUCATION & RESEARCH (IISER)

Srinivasapuram, Jangalapalli Village, Panguru (G.P), Yerpedu(M), Tirupati - 517619

**Sub: SUBMISSION OF TENDER DOCUMENTS FOR THE WORK OF**

**Name of work & Location:** CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME

NIT NUMBER : IISERT/ENGG/2025-26/01

Having examined the details given in press notification and the tender document for the above work, I/we hereby submit the tender documents and other relevant information. I/we agree with all the terms and conditions given in the bid document.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for eligibility criteria and have no further pertinent information to supply. We understand and agree that financial bids of the only short listed agencies selected by IISER Tirupati out of the top ranked technically qualified agencies evaluated and found eligible under clause 20 of the NIT, shall only be opened.
3. I/We submit the requisite certified solvency certificate and authorize the Director, IISER, Tirupati to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize Superintending Engineer, Tirupati to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/We submit the following certificates in support of our suitability, technical know-how & capability for having successfully completed the following works.

Name of Work:

Certificate from

- 1.
- 2.
- 3.

- 1.
- 2.
- 3.

Enclosures:

Seal of applicant

Date of submission

Signature(s) of applicant(s)

### Undertaking to sign the integrity Agreement

To,

.....,  
.....,  
.....

**Sub: SUBMISSION OF TENDER DOCUMENTS FOR THE WORK OF**

Name of work &Location : CONSTRUCTION OF 400M 8-LANE SYNTHETIC  
ATHLETIC TRACK AS PER WORLD ATHLETIC  
STANDARDS WITH ASSOCIATED SPORTS TRACKS  
AND FOOTBALL GROUND AT IISER TIRUPATI,  
YERPEDU UNDER KHELO INDIA SCHEME

NIT NUMBER : IISERT/ENGG/2025-26/01

Dear Sir,

It is here by declared that IISER is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IISER. Yours  
faithfully

Registrar



## Forwarding letter for Integrity Agreement

To

**INDIAN INSTITUTE OF SCIENCE EDUCATION & RESEARCH (IISER) TIRUPATI**

Srinivasapuram, Jangalapalli Village,

Panguru (G.P), Yerpedu (M),

Tirupati – 517619

**Sub: SUBMISSION OF TENDER DOCUMENTS FOR THE WORK OF**

Name of work & Location : CONSTRUCTION OF 400M 8-LANE SYNTHETIC  
ATHLETIC TRACK AS PER WORLD ATHLETIC  
STANDARDS WITH ASSOCIATED SPORTS TRACKS  
AND FOOTBALL GROUND AT IISER TIRUPATI,  
YERPEDU UNDER KHELO INDIA SCHEME

NIT NUMBER : IISERT/ENGG/2025-26/01

I/We acknowledge that IISER is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IISER. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IISER shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

**To be signed by the bidder and the signatory competent / authorised to sign the relevant contract  
on behalf of IISER**

**INTEGRITY AGREEMENT**

This Integrity Agreement is made at ..... on this ..... day of ..... 20.....

**BETWEEN**

IISER represented through its Registrar, (Hereinafter referred as the '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

.....  
(Name and Address of the Individual/firm/Company)

through ..... (Hereinafter referred to as the (Details of duly authorized signatory)

**"Bidder/Contractor"** and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal / Owner has floated the Tender (NIT No. ....) (hereinafter referred to as **"Tender/Bid"**) and intends to award, under laid down organizational procedure, contract for .....  
(Name of work) hereinafter referred to as the **"Contract"**.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as **"Integrity Pact"** or **"Pact"**), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

**Article 1: Commitment of the Principal/Owner**

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

## **Article 2: Commitment of the Bidder(s)/Contractor(s)**

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
  - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian

Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### **Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

4) **Article 4: Previous Transgression**

- a. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- b. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- c. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

**Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors**

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub- vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

**Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority.

**Article 7- Other Provisions**

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Headquarters of the Principal/Owner**, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.

- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.**

#### **Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....  
(For and on behalf of Principal/Owner)

.....  
(For and on behalf of Bidder/Contractor)

WITNESSES:

1. ....  
(signature, name and address)

2. ....  
(signature, name and address)

Place:

Dated:

## ANNEXURE 1

### PROFORMA '1'

#### INFORMATION REGARDING INITIAL BIDDING CAPACITY

The information to be filled in by the Bidder in the following pages will be used for purposes of Pre-qualification as provided above.

#### 1. For Individual Bidders

##### 1.1 Constitution or legal status of Bidder (Attach Copy)

Place of registration:

Principal place of business:

(Power of attorney of signatory of Bid)

##### 1.2 (A) Value of work Completed during the last five years (in Rs. Lakh)

<i>Particular</i>	<i>Year</i>	<i>Value</i>
Total value of Work Executed in the last five years**	2020-2021	
	2021-2022	
	2022-2023	
	2023-2024	
	2024-2025	

\*\* Immediately preceding the financial year in which bids are received. Attach certificate from Chartered accountant.

##### (B) Existing commitments and on-going works: (format for **clause 3.7**)

<i>Description Of work</i>	<i>Place &amp; state</i>	<i>Contract No.&amp; Date</i>	<i>Name &amp; Address of Client</i>	<i>Value of Contract (Rs. Lacs)</i>	<i>Stipulated period of completion</i>	<i>Value of work remaining to be completed</i>	<i>Anticipated date of completion (Rs.)</i>	<i>Remarks Information regarding the litigation if any</i>

**FORM 'A'**

**FINANCIAL INFORMATION**

**I. Financial Analysis-**Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached.)

<b>Year</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2024-25</b>
<b>Gross annual turn over</b>					
<b>Profit/ Loss</b>					

Signature of Chartered Accountant with Seal Signature of Bidder(s)



**Form 'B'**

**FORM OF BANKERS' CERTIFICATE FROM A SCHEDULED BANK**

This is to certify that to the best of our knowledge and information that;

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(Name of the individual or the firm)

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(Name of the proprietor in case of a sole proprietorship concern or names of partners in case of partnership concern as per bank's record, be indicated)

---

(Address of the customer as per bank record) is a / are customer(s) of our bank,  
is/are respectable and can be treated as good for any engagement up to a limit of  
Rs.

(Rupees \_\_\_\_\_ only)

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

**Signature of the Manager**

**Seal of Bank**

**Note:** This certificate should be issued on the letter head and addressed to the DIRECTOR, IISER TIRUPATI Campus, Srinivasapuram, Jangalapalli Village, Panguru (G.P), Yerpedu(M), Tirupati – 517619 in a Sealed Cover

**FORM 'C'**

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST 7  
(Seven) YEARS ENDING PREVIOUS DAY OF THE DATE OF SUBMISSION OF  
TENDER**

S. No.	Name of work/ project and location	Owner or Sponsoring organization	Cost of work in crores of Rupees	Date of commencement As per contract	Stipulated date of completion	Actual date of completion	Litigation/arbitration cases pending/in progress with details	Name and address/telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

- Indicate gross amount claimed and amount awarded by the Arbitrator.

**SIGNATURE OF BIDDER(S)**

## FORM D

### PERFORMANCE REPORT OF WORKS REFERRED TO IN PROFORMA 'C'

1. Name of the work/ Project & Location.
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Date of Start
6. Date of completion
  - (a) Stipulated date of completion.
  - (b) Actual date of completion.
7. a) Whether case of levy of compensation for Delay has been decided or not? Yes / No
  - d) If decided, amount of compensation levied for Delayed completion if any?
8. Amount of reduced rate items, if any
9. Performance report
  - i Quality of Work: Outstanding /Very Good / Good / Poor
  - ii Financial soundness : Outstanding /Very Good / Good/ Poor
  - iii Technical Proficiency : Outstanding /Very Good / Good / Poor
  - iv Resourcefulness : Outstanding /Very Good / Good / Poor
  - v General Behaviour : Outstanding /Very Good / Good / Poor

**DATED:**

**Executive Engineer or Equivalent**

## **FORM 'E'**

### **STRUCTURE AND ORGANISATION**

1. Name and address of the applicant
2. Telephone No./Telex No./Fax No.
3. Legal Status (attach copies of original Document defining the legal status)
  - (a) An Individual
  - (b) A proprietary Firm
  - (c) A Firm in partnership
  - (d) A limited Company or Corporation.
4. Particulars of registration with various Government bodies (Attach attested photo-copy)
  - a) Registration Number.
  - b) Organization / Place of registration
5. Names and Titles of Directors and officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization.
7. Has the bidder, or any constituent partner in case of partnership firm Limited Company/Joint Venture, ever been convicted by the court of law?? If so, give the details.
8. In which field of Civil Engineering Construction, the bidder has specialization and interest?
9. Any other information considered necessary but not included above.

**SIGNATURE OF BIDDER(S)**

## **FORM F**

### **PROFORMA OF AFFIDAVIT FOR NON - BLACK LISTING**

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the IISER Tirupati then I/we shall be debarred for bidding in IISER TIRUPATI in future forever. Also, if such an information comes to the notice of department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

Signature of Bidder(s) or an authorized  
Officer of the firm with stamp

Signature of Notary with seal

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Note:1. The affidavit shall be made in current date after the date of invitation of the tender.

Affidavit shall be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-otherwise the tender shall be rejected

COUNTERSIGNED

Engineer in Charge

IISER Tirupati

**Form 'G'**

**AFFIDAVIT**

**NAME OF WORK: CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME**

I / we undertake and confirm that eligible similar work(s) has/ have not been got executed through **another contractor on back to back basis**. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in IISER TIRUPATI in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee. (Scanned copy to be uploaded at the time of submission of Bid.)

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-.

Name & Signature of Contractor

## **Form 'H'**

### **Declaration about site inspection**

To  
The Registrar,  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati  
Sreenivasapuram, Jangalapalli Village,  
Panguru (G.P), Yerpedu(M), Tirupati – 517619

**NAME OF WORK: CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME**

Dear Sir,

It is hereby declared that, I/ We \_\_\_\_\_ inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site. / ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

I /We bidder shall be responsible for arranging and maintaining at own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves 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.

Yours faithfully

**(Duly authorized signatory of the bidder)**

**CHECK LIST:** Details of Enclosures/documents required to be uploaded on website <https://eprocure.gov.in/eprocure/app> through the E-procurement portal up to the last date and time of submission of tender.

Sl. No.	Description of item	Scanned copies Uploaded on website	Not uploaded
1.	Pre-Qualification Documents as per Annexure 1 <b>Pro forma I , Form A to Form H</b>		
2.	Power of attorney as required		
3.	Certificate of Registration as required		
4.	Memorandum of Articles of association as required		
5.	C A certificate for Audited Balance Sheet and Profit & Loss statement for the past three financial years		
6.	Supporting certificates for technical and financial capability from relevant authorities.		
7	INTEGRITY AGREEMENT duly signed by the agency along with <b>letter of Transmittal</b>		
8	Any other important information.		
9	Scan copies of net banking receipt towards payment of Tender fee and Bid Security Declaration Form		
10	Letter of transmittal duly signed by the bidder.		
11	Uploading of the tender document Vol-I, Vol-II, Vol-III and financial bids		
12	Any other relevant document required to be uploaded on website as per tender conditions.		





## **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH – IISER TIRUPATI.**

Name of work &Location : CONSTRUCTION OF 400M 8-LANE SYNTHETIC  
ATHLETIC TRACK AS PER WORLD ATHLETIC  
STANDARDS WITH ASSOCIATED SPORTS  
TRACKS AND FOOTBALL GROUND AT IISER  
TIRUPATI, YERPEDU UNDER KHELO INDIA  
SCHEME.

NIT NUMBER : IISERT/ENGG/2025-26/01

## **SECTION – II**

### **ITEM RATE TENDER & CONTRACT FOR WORKS**

## SECTION- II

### Tender Form Item Rate Tender & Contract for Works

**Name of work & Location:** CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME.

**NIT No.:** IISERT/ENGG/2025-26/01

Tender(s) to be submitted online by (time) **15:00 hours on 23/07/2025**

[URL:https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)

**Tender(s) to be opened 15:30 hours on 24/07/2025 through online by Indian Institute of Science Education and Research, Tirupati**

### **TENDER**

I/We have read and examined the notice Inviting Tender, Schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, special conditions & other document and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Director of Indian Institute of Science Education and Research Tirupati (IISER-Tirupati) within the time specified in Schedule **8 Months viz**, schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to the Conditions of contract and with such materials as are provided for and in respects in accordance with such conditions so far as applicable.

We agree to keep the tender valid for (90) ninety days from the due date of its opening and not to make any modifications in its terms and conditions.

A sum of Rs (figure)----- (in words) -----

-----

has been deposited in Deposit at call Receipt of a Schedule bank/demand draft of a scheduled bank/bank guarantee issued by a Schedule Bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Director Of Indian Institute of Science Education and Research Tirupati (IISER-Tirupati) or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely, if I/we fail to commence work as specified, I/we agree that Director Of Indian Institute of Science Education and Research Tirupati(IISER-TIRUPATI) or his successors in office shall without prejudice to any other right or

remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely.

The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/ confidential documents and shall not communicate information / derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the state or IISER Tirupati.

Dated .....

Signature of Contractor

Seal

Postal Address

Witness:

Address:

Occupation:

## ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on the Director IISER, Tirupati for sum of

Rs..... (Rupees.....  
.....).

The letters referred to below shall form part of this contract Agreement: -

(a)

(b)

(c)

For & on behalf of the Director, IISER Tirupati

Signature.....

Dated.....

Designation.....



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH – IISER  
TIRUPATI.**

**Name of work & Location:** CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME

**NIT NUMBER:** IISERT/ENGG/2025-26/01

**SECTION - III**

## **GENERAL CONDITIONS OF CONTRACT**

### **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI**

#### **(i) General Rules & Directions**

1. All work proposed for execution by contract will be notified in a form of invitation to tender prominently displayed in public places and signed by the officer inviting tender or by publication in Newspapers as the case may be.

This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the application, and the amount of the security deposit and performance guarantee to be deposited by successful tenderer and the percentage, if any, to be deducted from bills. Copies of specification, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act' 1952.
3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.

4. Applicable for Item Rate Tender only

Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. (Applicable for Item Rate Tender only)

The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paise and considering more than fifty paise as rupee one.

In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, the such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective origin original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.

If the revised retendered amount (worked out on the basis of quote rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tenderer, among such contractors, shall be decided by draw of lots in the presence of Registrar IISER Tirupati, Engineer in charge lowest contractors those have quoted equal amount of their tenders.

In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.

In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.

Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the re-tendering process of the work.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Registrar, IISER, Tirupati, Superintending Engineer, Dy. Registrar(F&A) & the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.

Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.

5. The officer inviting tender or his duly authorized representative will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule I. The earnest money of all unsuccessful bidders shall thereupon be returned to the contractor remitting the same, without any interest.
6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgement of payment to the officer inviting tender and the contractors shall be responsible for ensuring that he procures a receipt signed by the officer inviting tender or a duly authorized cashier/accounts officer.

8. The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue-rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.
9. The tenderers shall sign a declaration under the official Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them.
10. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below / above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender 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, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount.  
In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
- 10 A In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender for Item containing item rates is liable to be rejected. Percentage quoted by the contractor in Rate percentage rate tender shall be accurately filled in figures and words, so that there is no Tender only discrepancy.
11. In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12. All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. Rs. 2.15 P and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be up to two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.
- 12 A In Percentage Rate Tender, the tenderer shall quote percentage below /above (in figure as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and same should be written in the figures as well as in Words in such a way that no interpolation is possible. In case of figures, the word 'Rs' should be written before the figure of rupees and word 'P' after the decimal figures e.g. 'Rs 2.15P' and in case of words, the word 'Rupees' should be preceding and the word 'Paisa' should be written at the end.



13. (i) The Contractor, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in scheduled C. This guarantee shall be in the form of Deposit at call receipt of any scheduled bank/ banker's cheque of any scheduled bank/Demand draft of any scheduled bank /Pay order of any scheduled bank or Government Securities or Fixed Deposit Receipt or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.
- (ii) The Contractor, whose tender is accepted, will also be required to furnish by way of Security Deposit for the fulfilment of his contract, an amount equal to 2.50 % of the tendered/accepted value of the work. The Security Deposit will be collected by deductions from the running bills of the contractor at the rates mentioned above and the earnest money deposited at the time of tenders, will be treated as a part of the Security Deposit. The security amount will also be accepted in the shape of Government Securities. Fixed Deposit Receipt and Guarantee Bonds of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.
14. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in Charge shall be communicated in writing to the Engineer-in-Charge.
15. GST or any other tax on material in respect of this contract shall be payable by the contractor and IISER Tirupati will not entertain any claim whatsoever in respect of the same.
16. The contractor shall give a list of IISER employees, if any, related to him.
17. The tender for the work shall not be witnessed by a contractor or Contractors who himself/ themselves has/ have tendered or who may and has/ have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
18. The tender for composite works includes, in addition to building work, all other works such as providing architectural & structural designing services, sanitary and water supply installations, drainage installation, External Façade, Electrical works, Heating ventilation and air conditioning system, Integrated Building Management system, Lifts, roads and path etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical Heating ventilation and Air conditioning system, Integrated Building Management system, Solar Water Heating system works in the composite tender.

19. The contractor shall submit list of works which are in hand (progress) in the following form:

Name of work	Name of client & particulars of works being executed	Value of work in Rs.	Position of works in progress	Remarks

20. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Engineer in charge may at his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
21. Bidder shall have valid Provident Fund Code Number, GST registration No and bidder shall also ensure compliance of the EPF & MP Act, 1952 by the sub-contractors, if any engaged by the contractor for the said work.
22. The standard publications like General Conditions of Contract, Delhi schedule of rates (for civil), Specifications for Civil and Electrical works and Delhi analysis of rates (for civil) with amendments / correction slips up to the last date of submission of tender can be seen free of cost from the website [www.cpwd.gov.in](http://www.cpwd.gov.in). or [www.eprocure.gov.in](http://www.eprocure.gov.in)
- 23.
- a) Contractor must ensure to quote percentage rate of in the financial bid.
  - b) Tenderer shall quote the percentage rate above or below two places of decimals only.
  - c) The tenderer shall quote only one over all percentage rate above or below on the designated place, which shall be applicable on both Civil and E&M components.
24. If a tenderer quotes nil rates against each item in item rate tender or does not Quote any percentage above/below on the total amount of the tender or any section/subhead in percentage rate tender, the tender shall be treated as invalid and will not be entertained as lowest tenderer.
25. Contractor shall not divert any advance payments or part thereof for any other purpose other than needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e. mobilization, secured against materials brought at site, secured against plant & machinery and / or for work done during interim stages, etc.) are required to be re-invested in the contracted work to ensure advance availability resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.

## (ii) CONDITIONS OF CONTRACT

### **Definitions:**

The **contract** means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the Director, Indian Institute of Science Education and Research Tirupati and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

1 In the contract, the following expressions 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 construed 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 places 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 allotted or used for the purpose of carrying out the contract.
- iii). The **Contractor** shall mean the individual, firm or company, whether incorporated or not, undertaking the works shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
- iv) The Director, Indian Institute of Science Education and Research Tirupati means his successors also.
- v) The **Engineer-in-Charge** means Engineer/Officer either from IISER, Tirupati or consultant notified by The Director (IISER, Tirupati) who shall supervise and be in-charge of work and who shall act on behalf of the Director, IISER for execution of contract.
- vi) **IISER** means Indian Institute of Science Education and Research Tirupati, or his authorized representative.
- vii) **Accepting Authority** shall mean the authority mentioned in Schedule 'C'.
- viii) **Excepted Risk** are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by IISER Tirupati of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to IISER-Tirupati faulty design of works.
- ix). **Market Rate** shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'C' to cover, all overheads and profits. Provided that no extra overheads and profits shall be payable on the part(s) of the work assigned to other agency(s) by the contractor as per terms of contract.

- x). **Schedule(s)** referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the CPWD Delhi schedule of rates mentioned in Schedule 'C' hereunder, with the amendments thereto issued up to the date of receipt of the tender.
  - xi). **Department** means Indian Institute of Science Education and Research Tirupati. (IISER Tirupati)
  - xii). **Specifications** means the specifications contained in tender documents, CPWD specifications 2019 Vol I & II with up to date correction slips
  - xiii). **Tendered Value** means the value of the entire work as stipulated in the letter of award.
  - xiv) *Date of commencement of work: The date of commencement of work shall be the date of start as specified in schedule "C" or the first date of handing over the site, whichever is later, in accordance with the phasing if any, as indicated in the tender documents.*
- 2 Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
  - 3 Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
  - 4 The contractor 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 tender papers. None of these documents shall be used for any purpose other than that of this contract
  - 5 The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment 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 Schedule of quantities 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.
  6. The contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and the rates and prices quoted in the Schedule of Quantities, which rates 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.
  7. 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 drawing and figured dimensions in preference to scale and special conditions in preference to General conditions.
    - 7.1. In the case of discrepancy between the schedules of quantities, the specifications and or the drawings, the following order of preference shall be observed.

- (i) Description of items as given in Schedule of Quantities.
  - (ii) Particular Specifications, Special Conditions and Additional conditions, if any.
  - (iii) Drawings.
  - (iv) CPWD Specifications.
  - (v) General conditions of contract for CPWD works.
  - (vi) Indian Standard Specifications of B.I.S.
  - (vii) Manufacturers' specifications & as decided by Engineer-in-charge.
  - (viii) Sound Engineering practices.
- 7.2. If there are varying or conflicting provision made in any one document forming part of the contract, the Accepting Authority shall be deciding authority with regard to the intention of the documents and his decision shall be final and binding on the contractor.
- 7.3. Any error in the description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the contract or release the contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
8. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall within one month from the stipulated date of start of the work, sign the contract consisting of: -
- (i) The notice inviting tender, all the documents including drawings if any, forms the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
  - (ii) Standard Form Consisting of followings
    - (a) NIT, Work order
    - (b) Item rate tender form & Contract for worker.
    - (c) General Rules and Directions
    - (d) Condition of contracts
    - (e) Clauses of contracts, Safety Code, Contractor' Labour Regulations, Model rules for the protection of health, sanitary arrangements for workers employed by IISER or its Contractors.
    - (f) Proforma of agreement
    - (g) Proforma of Schedule A to H
    - (h) Special Condition of contracts
    - (i) Technical specifications
    - (j) Tender drawings
    - (k) Priced Schedule of quantities.
    - (l) All correspondence between the parties till award of contract
  - (iii) Till such time contract agreement is signed between the parties, all the documents mentioned Sr. 8 (i), 8 (ii)- (a to l) above shall be binding on the contractor.
  - (iv) No payment for the work done will be made unless contract is signed by the contractor.

9. **Clauses of contract, safety code and contractor's labour regulations.**

All the Clauses, safety code, and contractor's labour regulations should be strictly followed as per the General conditions of contract 2023 for construction works published by CPWD along with the up to date correction slips and modifications issued.

10. **Form of Performance Security (Guarantee)**

Bank Guarantee Bond

1. In consideration of the Director IISER Tirupati (hereinafter called "IISER-Tirupati") having offered to accept the terms and conditions of the proposed agreement between-----and-----  
----- (hereinafter called "the said Contractor(s)") for the work -----  
----- (hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs.----- (Rupees ----- only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

We ----- (hereinafter referred to as "the Bank") hereby (indicate the name of the Bank) Undertake to pay to the IISER Tirupati an amount not exceeding Rs----- (Rupees ----- only) on demand by IISER Tirupati

2. We -----do hereby undertake to pay the amounts due and payable (indicate the name of the Bank) under this Guarantee without any demure, merely on demand from the IISER Tirupati stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). 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 Rs----- (Rupees ----- only)

3. We, the said bank further undertake to pay the IISER Tirupati any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding 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 payment.

4. We, ----- further agree that the guarantee herein contained shall (indicate the name of the Bank) remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the IISER Tirupati under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the IISER Tirupati certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We, ----- further agree with the IISER Tirupati that the IISER Tirupati (indicate the name of the Bank) shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of

performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of

the powers exercisable by the IISER Tirupati against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the IISER Tirupati or any indulgence by the IISER Tirupati to the said Contractor(s) or by any such matter or thing whatsoever which under the law 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 undertake not to revoke this guarantee except (indicate the name of the Bank) with the previous consent of the IISER Tirupati in writing.
8. This guarantee shall be valid up to-----unless extended on demand by the IISER Tirupati. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs----- (Rupees-----only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the -----day of-----for----- (indicate the name of the Bank)

## 11. Proforma of Agreement

ARTICLE OF AGREEMENT is made at Tirupati on the ..... day of..... 2017 between Indian Institutes Of Science Education and Research Tirupati, (IISER Tirupati) (Herein after referred to as the employer which expression shall include its successors and assigns where the context so admits) of the one part and -----

-----  
(Hereinafter referred to as the “contractor(s) which expression shall include his/their respective heirs, executors, administrators and assigns where the context so admits) of the other part.

WHEREAS the employer is desirous of getting the work ..... done and caused drawings, schedule of quantities, terms and conditions and specification describing the work to be executed and completed maintained. (hereinafter called “the works”) and has accepted a tender of the CONTRACTOR for the execution, completion and guarantee of such works.

AND WHERE AS the contractor has deposited a Sum of Rs. -----

----- With employer as security for the due performance of this agreement as provided in the said Conditions.

NOW IT IS HEREBY agreed and declared by and between the parties as follows.

- (a) In consideration of the payments to be made to him as herein after provided the contractor shall upon and subject to the condition herein contained and the said conditions executed and complete the work shown upon the said drawings and such further detailed drawings which may be furnished to him and described in the said specifications and the said priced schedule of quantities within ----- from the date of order to commence the work.
- (b) The employer shall pay to the contractor such sum that shall become payable hereunder at the times and in the manner specified in the said conditions.
- (c) Time is essence of this agreement and the contractor agrees to pay compensation for delay as per Clause 2 of general Condition of Contract.
- (e) The documents mentioned below under (g) shall form the basis of this agreement and the decision Engineer or the Engineers in Charge, in reference to all matters of dispute as to material and workmanship shall be final and binding on both the parties.
- (f) The employer through the Engineer-in-Charge reserves to himself the right of altering the drawings and the adding to or omitting any items of works or of having portions of the same carried out departmentally or otherwise and such alterations or variations shall not violate agreement.
- (g) This agreement comprises the work said above and the entire subsidiary work connected there with, even though work may not be shown on the drawings or described in the said specifications or the priced schedule of quantities.



This agreement contains the following documents in addition to pages of articles of agreement.

- (a) NIT/WORK ORDER
- (b) Item rate tender form & contract for works.
- (c) General Rules and Directions
- (d) Condition of contracts
- (e) Clauses of contract, safety code and contractor's labour regulations
- (f) Proforma of agreement
- (g) Proforma of Schedule A to C
- (h) Special Condition of contracts
- (i) Technical specifications
- (j) Tenders drawings
- (k) Price Schedule/ Schedule of Quantities
- (l) All corresponds between the parties until award of contract.
- (m) Prequalification document

In witness whereof the parties hereto have their respective hands the day and the year herein above written.

Signed by for and on behalf of the employer.

Engineer In-Charge Engineer.

Witness (1) -----

Witness (2) -----

Signed by the said contractor

Address ----- Witness (1) -----

Countersigned Witness (2) -----

**On Company Letter Head  
BID SECURITY DECLARATION**

To  
The Registrar,  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati  
Sreenivasapuram, Jangalapalli Village,  
Panguru (G.P), Yerpedu(M), Tirupati - 517619

Tender No. IISERT/ENGG/2025-26/01

Notice Inviting Tender for CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME

Sir,

We, the undersigned, declare that

1. We understand that, according to tender conditions, bids must be supported by a Bid Securing Declaration.
2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Institute for the period of **3 years** starting from the bid closing date, if we are in breach of our obligation(s) under the bid conditions, because we:
  - (a) Have withdrawn our bid during the period of bid validity specified in the letter of bid; or
  - (b) Having been notified of the acceptance of our bid by the institute during the period of bid validity, (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the tender conditions.

**Date:**

**Authorized Signatory**

**Name:**

**Place:**

**Designation:**

**Contact No:**

## **APPENDIX (xv) -CLAUSE 25**

### **APPENDIX XV Notice for appointment of Arbitrator [Refer Clause 25]**

To

The Chairman

Building and Works Committee IISER Tirupati.

Dear Sir,

In terms of clause 25 of the agreement, particulars of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount in the work
7. Date of contract
8. Date of contract Date of initiation of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of request made to EE for decision
17. Date of receipt of EE's decision
18. Date of appeal to you
19. Date of receipt of your decision.

Specimen signatures of the applicant

(only the person/authority who signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claims.
2. Copy in duplicate to: Engineer in Charge.

Yours faithfully

**(v) PROFORMA OF SCHEDULES**

(Operative Schedules to be supplied to each intending tenderer)

**SCHEDULE 'A'**

Schedule of quantities Enclosed as Financial bid document

**SCHEDULE 'D'**

Extra schedule for specific requirements/document for the work, if any. -- NIL—

**SCHEDULE 'E'**

**Reference to General Conditions of contract. -**

Name of work & Location	: CONSTRUCTION OF 400M 8-LANE SYNTHETIC ATHLETIC TRACK AS PER WORLD ATHLETIC STANDARDS WITH ASSOCIATED SPORTS TRACKS AND FOOTBALL GROUND AT IISER TIRUPATI, YERPEDU UNDER KHELO INDIA SCHEME
NIT NUMBER	: IISERT/ENGG/2025-26/01
Estimated cost put to tender	: <b>Rs 9.39 Crores</b>
(i) Earnest money	: <b>Rs 28,17,742/-</b>
(ii) Performance Guarantee	: 5% of tendered value.
(iii) Security Deposit	: 2.5 % of tendered/accepted value.

**SCHEDULE 'F'**

**GENERAL RULES & DIRECTIONS :**

Officer inviting tender: Registrar, IISER Tirupati

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 (c): See below

**Definitions:**

2(v) Engineer-in-Charge : Executive Engineer IISER Tirupati.

2(viii) Accepting Authority : Director, IISER Tirupati

2(x) Percentage on cost of materials and labour to cover all overheads and profits: 15%

2(x) (a) Standard Schedule of rates : Delhi Schedule of Rates 2023 Vol I & II

2(viii) Department: Indian Institute of Science Education and Research (IISER) Tirupati

2(ix) Standard contract Form: Item rate contract

**Clause 1**

- (i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance 15days
- (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above 7 days

**Clause 2**

Authority for fixing compensation  
under clause 2.

The Director Indian institute of Science  
Education & Research, IISER Tirupati

**Clause 5**

Number of days from the date of issue of letter  
of award works for reckoning date of start

7 days

**Mile stone(s) as per table given below: -**

**Time allowed for Execution**

S.No.	Description of Milestone	Time allowed in Months (From date of start)	Amount to be withheld in case of Non- achievement of mile stone (% of Tendered Amount)
(i)	Submission of layout drawing of synthetic Athletic track	15 Days	0.5%
(i)	Completion of earth work, RCC work, Brick work and Drainage work, supply of material for Athletic track & Football Field	4 Months	1.25%
(ii)	Completion of GSB, WMM, all Bituminous work	5 Months	1.25%
(iii)	Completion of synthetic track, grassing & sprinkler system for football field and any other works related with completion etc.	7 Months	1.0%
(iv)	Completion of all work as per agreement provisions with all marking, testing and certification by IAAF including cleaning of site and Handing over to the client.	8 Months	1.0 %

**Authority to decide:**

- (i) Extension of time : Engineer in charge
- (ii) Rescheduling of mile stones: Engineer in charge
- (iii) Shifting of date of start in case of delay in handing over of site: Director IISER Tirupati

**Clause 7**

Gross work to be done together with net payment  
/adjustment of advances for material  
collected, if any, since the last such payment  
for being eligible to interim payment

Rs. 50 Lakhs

**Clause 7A**

Whether clause 7A shall be applicable: Yes.

**No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in Charge.**

**Clause 10**

List of testing equipment to be List of Equipment for Field Testing provided by the contractor at site lab.: NIL

**Clause 10 B**

Whether Clause 10 B shall be applicable : Not Applicable

**Clause 10B(i)**

Whether Clause 10B (i) shall be applicable. : Not Applicable.

**Clause 10B(ii)**

Whether Clause 10B (ii) shall be applicable. : Not Applicable.

**Clause 10 C**

Component of labour expressed as percent of value of work = 25%

**CLAUSE 10 CC**

NOT APPLICABLE

**Clause 11**

Specifications to be followed

- 1) Technical specification given in for execution work Tender documents.
- 2) CPWD standard specification 2019 Volume I & II with up to date correction slips for civil works.
- 3) Indian Standard Specification
- 4) Manufactures specification
- 5) Engineer in charge decision.

12.2 (c) Deviation Limit beyond which clauses 100 %  
12.2 (c) shall apply for building work

(i) Deviation Limit beyond which clauses 100%  
12.2 (c) shall apply for foundation work

(Except items mentioned in earth work sub head in DSR and related items)

(ii) Deviation Limit for items mentioned in earth work  
Sub head of DSR or related items 100%

**Clause 16**

Competent Authority for deciding reduced rates  
Education &. Research, IISER Tirupati

Registrar

**Clause 25**

Constitution of Dispute Redressal Committee (DRC) Chairman – To be nominated by Director, IISER Tirupati

**Clause 32**

**Requirement of Technical Reprehensive(s) and Recovery Rates:**

Sl. No	Requirement of Technical Staff		Minimum Experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling
	Qualification	Number (of Major + Minor Component )			
1	Graduate Engineer	1	5 years (and having experience of one similar nature of work)	Project Manager	Rs. 25,000/- Per month per person
2	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project Planning/ quality/ billing Engineer	Rs. 15,000/- Per month per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10-year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.



**TABLE-1**  
**Equipments for Testing of Materials & Concrete at Site Laboratory**

All necessary equipment for conducting all necessary tests shall be provided at the site in the well-furnished site laboratory of Suitable Size by the contractor at his own cost. The following minimum laboratory Equipments shall be set up at site office laboratory:

Sl. No.	Equipment	Numbers (Minimum)
1.	100MT compression testing machine, electrical-cum-manually	1
2.	Slump cone, steel plate, tamping rod, steel scale, scoop	2
3.	Vicat Apparatus with Desk pot	1
4.	Megger & earth resistance tester	1
5.	Pumps and pressure gauges for hydraulic testing of Pipes	2
6.	Weighing scale platform type 100 Kg capacity	1
7.	Graduated glass measuring cylinder	As per requirement
8.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm; 12.5mm,10mm; 4.75mm complete with lid and pan]	1
9.	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 microns; 300 microns & 150 micron , with lid and pan]	1
10.	Sieve Brushes and sieve shaker capable of 200 mm and 300 mm dia sieves , manually operated with timing switch assembly	1 Each
11.	Cube moulds size 150mmx150mmx150mm	12
13.	Hot air oven temp. Range 50°C to 300°C- sensitivity 1 degree	1
14.	Electronic balance 600gx0.1g., 10kg and 50 kg	1 each
15.	Physical balance weight up to 5 kg	2
16.	Digital thermometer up to 150oc	1
17.	Air Content of concrete testing machine	1
18.	Measuring jars 100ml, 200ml, 500ml	1 Nos each size
19.	Gauging trowels 100mm & 200mm with wooden Handle	4 Nos.
20.	Spatula 100mm & 200mm with long blade wooden Handle	6
21.	Digital Vernier calipers 12"	1
22.	Digital PH meter least count 0.01mm	1
23.	Digital Micrometer least count. 0.01mm	1
25.	GI tray 600x450x50mm, 450x300x40mm,300x250x40mm	3 Nos each
27.	Rebound hammer test digital rebound hammer	1



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND  
RESEARCH (IISER) TIRUPATI**

**Volume II**

**Special conditions of contract and scope of  
work, technical specifications & Tender  
Drawings**

### **Special Conditions of Contract:**

1. The works contract to be entered into with the successful tenderer will be governed by the CPWD works Manual 2019 or the latest in force.
2. No night work will be permitted without the written permission of the Institute.
3. The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for and Safety Precautions enclosed herewith.
4. In all matters of dispute, the decision of the Director, INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH Tirupati Shall be final and binding on the tenderer / contractor.
5. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.
6. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him or else the rejected material should be removed from site immediately.
7. The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Institute if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.
8. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
9. The power required for work will be at free of cost. However, the contractor should ensure safety precautions while handling electrical equipment. Power source will be shown near to the working place. Necessary cables etc. shall be in the scope of contractor. Water has to be arranged by the contractor as per requirement.
10. The contractor who has been terminated during the last three years is not eligible to participate in the tender. If tenders are submitted from them, those documents will not be considered for evaluation.
11. **The quantities given in the Bill of quantities of the tender are approximate only.**
12. During execution of the work, if there is any delay, stoppage of work on any reason, the same shall be recorded by the contractor in the hindrance register, with the signatures of the concerned authorities.
13. Ensuring proper lashing of the components while being transported in vehicles.
14. The materials should not be allowed to extend or overflow the sides of the vehicles.
15. The speed restrictions within the Institute must be strictly adhered to.
16. The required water for the execution of the work shall be provided by the Institute. However, the applicable water charges i.e.1% will be recovered from the contractor at the time of processing of bill.
17. The work to be executed keeping the campus clean and any dirty area during the execution, it is the responsibility of the contractor to clean the space.

18. All personal protective equipment conforms with standard specification and Contractor including and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also, contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.
19. In the event of any injured/fatal accident for the work men during the course of contract period, the compensation and other medical expenses towards the incident is lies with the contractor. No way is IISER Tirupati responsible.
20. **Labour sheds will not be allowed to erect within the campus.**
21. **Bulk materials will be allowed to store within the campus at the location identified by the Engineer-In-Charge.**
22. **For materials other than bulk materials, a separate container or shed need to be installed at the campus and no space within the existing building will be given.** The whole responsibility of loading unloading and security to the material is within the scope of the bidder.
23. SAFETY PRACTICES
  - (i) WARNING/ CAUTION BOARDS: All temporary warning / caution boards / glow signage display such as “Construction Work in Progress”, “Keep Away”, “No Parking”, Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in- Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.
  - (ii) SIGN BOARDS: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies within 15 days from issue of award letter. Nothing extra shall be payable on this account. In case of noncompliance/delay in compliance in this, a penalty @ Rs. 1000/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor
  - (iii) Necessary protective and safety equipment such as helmet, safety shoes, gloves etc. shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the

- contractor and also to the departmental officials supervising / inspecting the works by the Contractor at his own cost and to be used at site. Nothing extra will be paid on this Account.
- (iv) Pre coated GI sheet barricading of required thickness with MS supporting poles at required spacing to a height of minimum 6 m with necessary horizontal purlin with logos of IISERT, Client & Agency around the periphery of proposed building as directed by Engineer-in-charge shall be provided for safety of the working staff and to minimise noise / air pollution for which nothing extra will be paid on this account.
  - (v) No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer –in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

#### 24. QUALITY ASSURANCE

- (i) The proposed work is prestigious and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like exposed finish form work, specialized flooring work, silicon sealant and backer rod fixing in expansion joints, factory made door- window shutters, proper slope maintaining in toilet units, sanitary- water supply installation, water proofing treatment, will specially require engagement of skilled workers having experience particularly in execution of such items.
- (ii) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- (iii) In addition to the supervision of work, IISERT Engineers shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by IISERT engineers to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement upto complete satisfaction of Engineer -In- Charge.  
Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non- hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled

up earth etc. to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.

- (iv) The Contractor shall submit, within 15 days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer-in-Charge. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in- Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.
- (v) All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per suggested list of brand names given in the tender document/particular specifications for approval of Engineer-In- Charge. For all other items, materials and fittings of ISI Marked shall be used with the approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge.
- (vi) The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non- availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge.
- (vii) All materials whether obtained from Govt. stores or otherwise shall be got checked by the Engineer-in-Charge or his authorized supervisory staff on receipt of the same at site before use.
- (viii) The contractor has to establish field laboratory at site including all necessary equipment for field tests as given in Schedule 'F'. All the relevant and applicable standards and specifications shall be made available by the contractor at his cost in the field laboratory. The contractor shall designate one of his technical representatives as Quality Assurance Engineer, who shall be responsible for carrying out all mandatory field/laboratory tests.

The contractor shall also provide adequate supporting staff at his cost for carrying out field tests, packaging and forwarding of samples for outside laboratory tests and for maintaining test records.

- (ix) The tests, as necessary and where no field laboratory facilities are available, shall be conducted in the laboratory approved by the Engineer-in-Charge. For materials for which field testing equipment is established at site, for those materials 90% of total tests shall be done at the laboratory established at site by contractor and remaining 10% in the reputed laboratories approved by Engineer-in-charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- (x) All the registers of tests carried out at Construction Site or in outside laboratories and all material at site (MAS) registers including cement register shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge. All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be regularly reviewed by JE/AE/AEE/EE. Contractor shall be responsible for safe custody of all the registers.
- (xi) The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the Engineer-in-Charge, at such time and to such places as directed by the Engineer-in-Charge. Nothing extra shall be payable for the above.
- (xii) The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor. The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.  
All the testing charges shall be borne by the contractor.
- (xiii) All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- (xiv) Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bylaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost.

- (xv) The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- (xvi) The contractor shall have to execute guarantee bonds in respect of water proofing works as per Performa enclosed.
- (xvii) The Contractor shall arrange electricity at his own cost for testing of the various electrical installations as directed by Engineer-in-Charge and for the consumption by the contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, wet riser / firefighting equipments, fire sprinklers etc. and also testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the contractor at his own cost. Nothing extra shall be payable on this account.

## 25. INSPECTION OF WORK

- (i) In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by Engineers of IISERT and their representatives. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.
- (ii) Senior Officers of IISERT, Dignitaries from Central Ministry / Client Department Authorities shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing.
  - a) Display Board showing detail of work, weekly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
  - b) Entrance and area surrounding to be kept cleaned.
  - c) Display layout plan key plan, building drawings including plans, elevations and sections.
  - d) Upto date displays of Bar chart, CPM and PERT etc.
  - e) Keep details of quantities executed, balance quantities, deviations, possible Extra item, substituted Item etc.
  - f) Keep plastic / cloth mounted one sets of building drawings.
  - g) Set of Helmets and safety shoes for exclusive use for officers/dignitaries visiting at site.
  - h) The work may be inspected by Chief Technical Examiners, Organization of Central Vigilance Commission, Sports Authority of India representatives. In such case the contractor shall make all arrangements for providing required details/documents.



## **Scope of Work, Technical Specification & Drawings**

The following facilities are to be constructed from the items given in the BOQ. The drawings following these specifications are indicative.

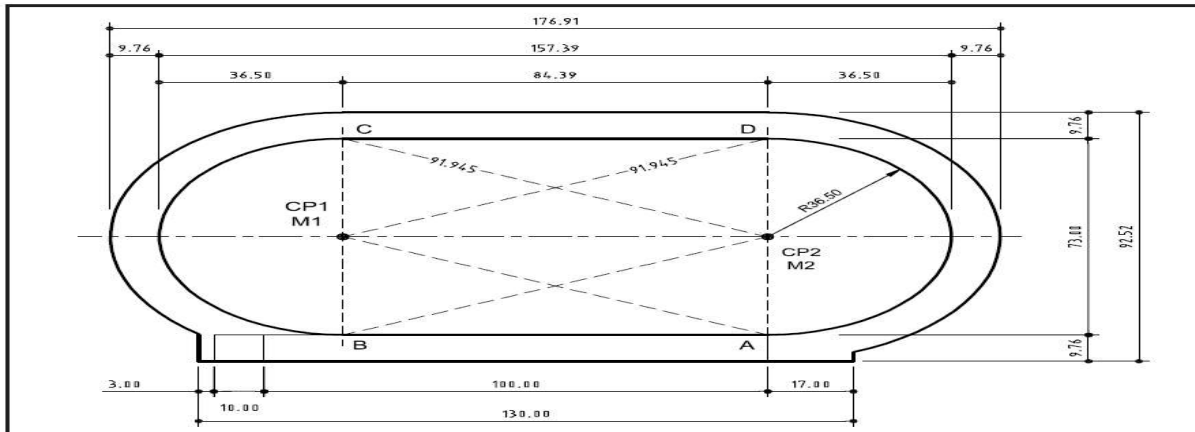
### **Brief of the work**

1. International Standard 400m, 8 Lane Athletic Track 8000 sqm (approx.) (including 'D', safety areas and high jump/long jump area) as per World Athletics (formerly IAAF) standards and World Athletics Class-II certification including the Sandwich Type surface with valid product approval certificate and laboratory test certificates from World Athletics (formerly IAAF), sub base as per the technical requirement to achieve the Certification class II
2. 400m track as described in World Athletic Manual with min. 8 oval lanes and 8 straight lanes for 100m and 110m Hurdles.
3. Water jump for the Steeplechase.
4. Long and Triple Jump facility with landing area at each end (02 Nos).
5. High Jump facility (02 Nos).
6. Pole Vault facility with provision for landing area at each end (02 Nos).
7. Discus and Hammer Throw combined facility (01 Nos).
8. Javelin Throw facility (02 Nos) and minimum runway length 33.5m.
9. Shot Put facility (02 Nos).
10. RCC drains all around as required with Precast Drain Cover (Perforated).
11. Infield with irrigation and required slope for drainage & sub-soil drainage toward RCC Drain, levelling and grassing of ground.
12. Protective fencing and external development works as required
13. The relevant applicable Handbook of play and specification of Sports infrastructure shall be referred for guidance. (The Soft copy of the Handbook is available on the MYAS website) and the latest "Track and Field Facility Manual" issued by World Athletics.
14. The Facilities should comply with the latest National Building Code, local Building Regulations, WA & Khelo India Guidelines.

### **The synthetic Athletic track to comply with WA Class II Athletics Facility Certificate**

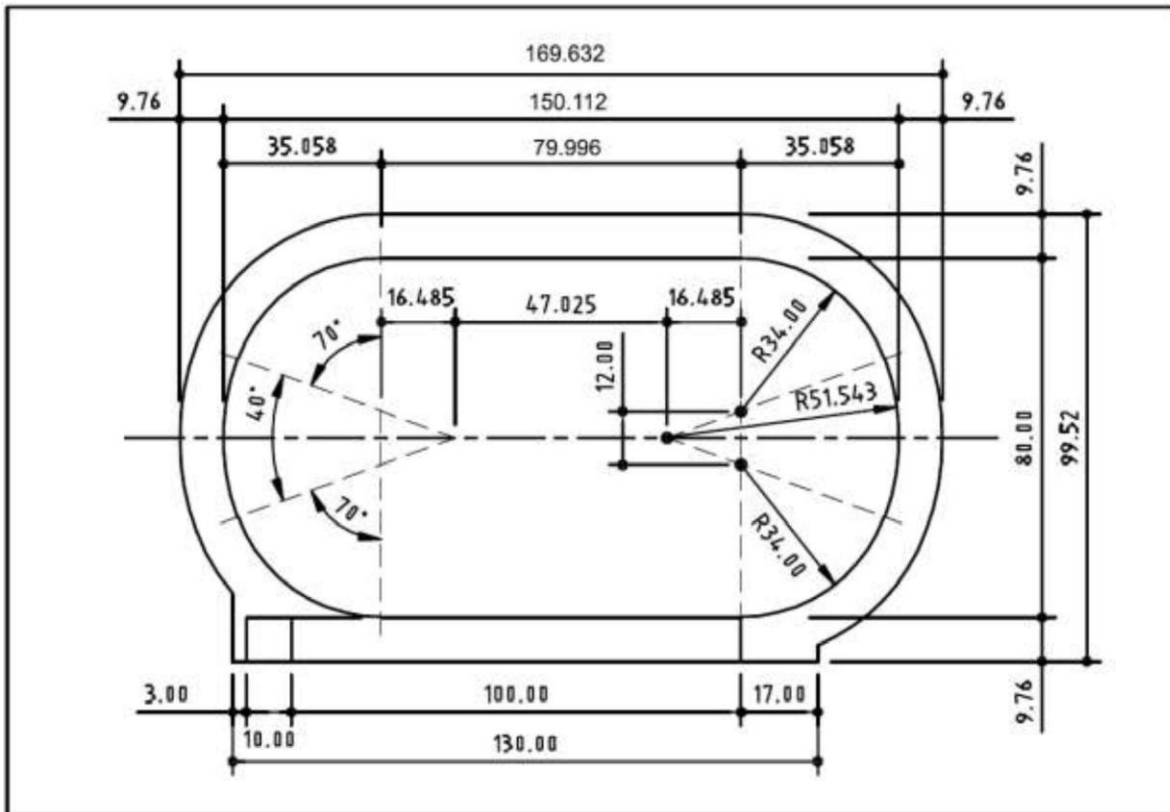
The 400 m Oval Track can be of various shapes/types as under:

	Type of 400m Oval Track			
	Standard Track	Double Bend Track		
<b>R = Radius</b>	R = 36.50	R1 = 51.543 R2 = 34.000	R1 = 48.00 R2 = 24.00	R1 = 40.022 R2 = 27.082
<b>G = Straights</b>	G = 84.39	G = 79.996	G = 98.52	G = 97.256
<b>F = Figure</b>	F = 1.2.3a	F = 1.2.3b	F = 1.2.3c	F = 1.2.3d
<b>Rectangular Interior Width</b>	73.00	80.000	72.00	69.740
<b>Length</b>	84.39	79.996	98.52	97.256
<b>Dimension of Segment Width</b>	73.00	80.000	72.00	69.740
<b>Length</b>	36.50	35.058	27.22	29.689

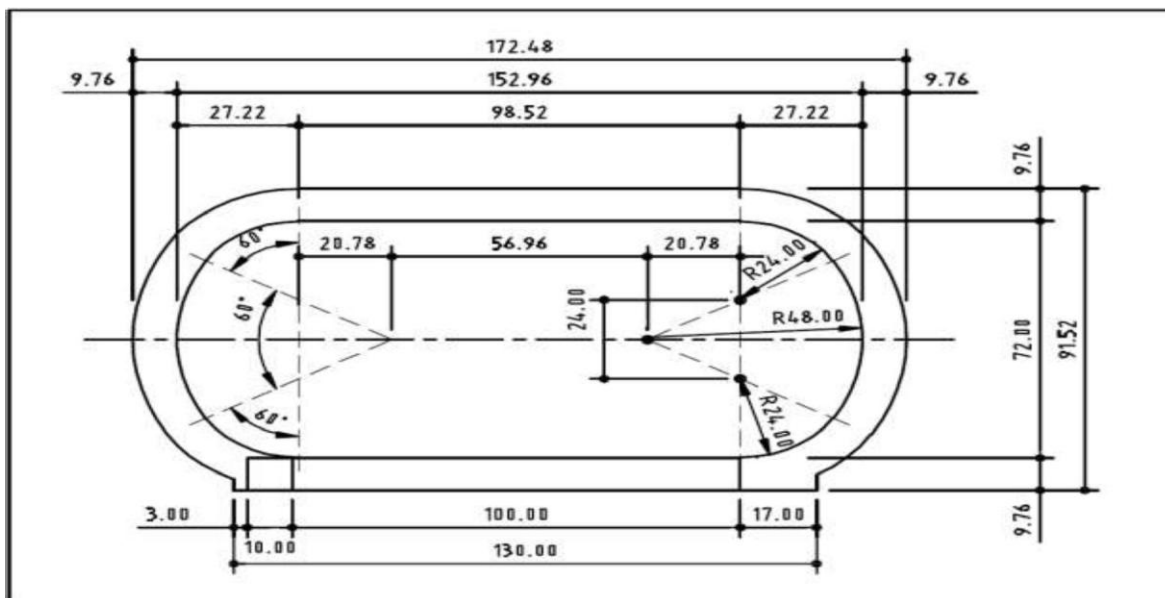


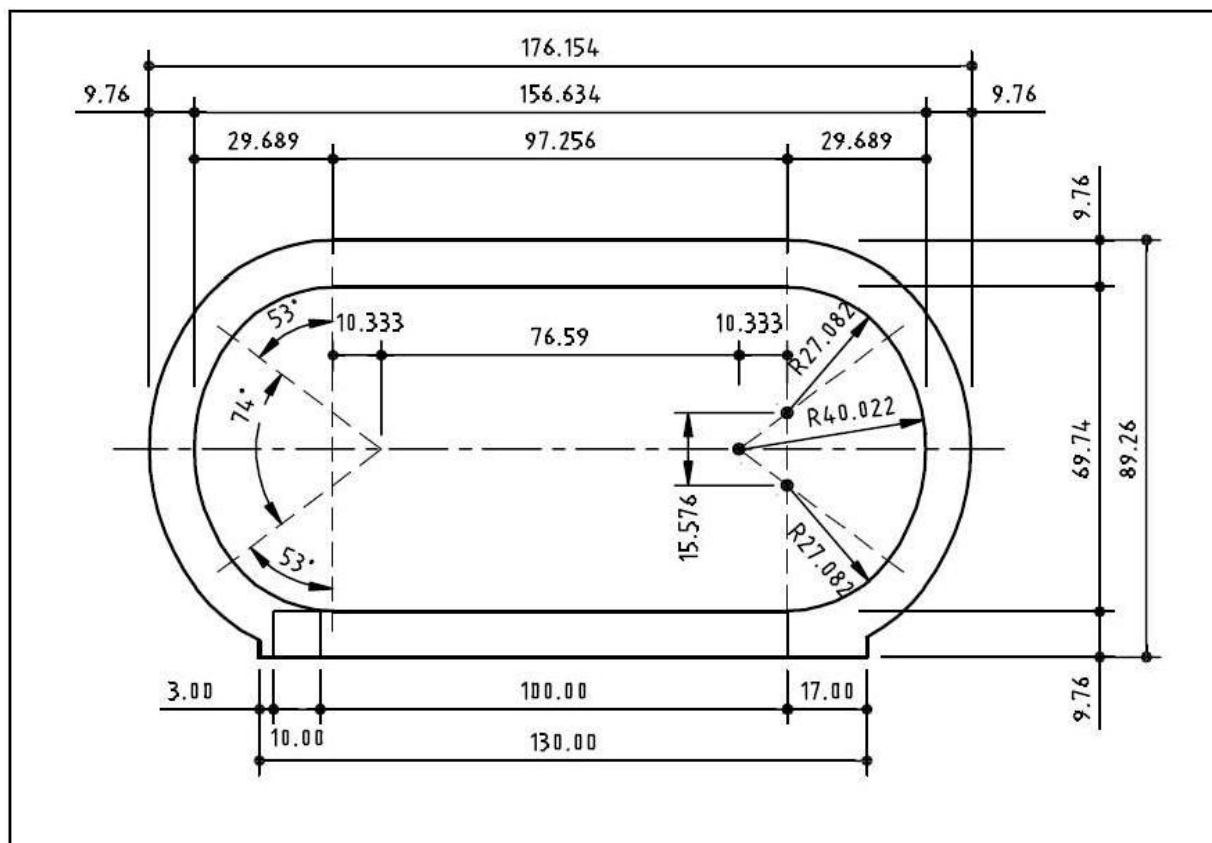
**Shape and dimensions of the 400m Standard Track (Radius 36.50m)**  
(Dimensions in m)

**Shape and dimensions of 400m Double Bend Track (Radii 51.543m and 34.00m)**  
(Dimensions in m)



**Shape and dimensions of 400m Double Bend Track (Radii 48m and 24m)**  
(Dimensions in m)





## COMPETITION AREA

## General Remarks

Track and Field athletics include competition areas for running, walking, jumping and throwing events. These are normally integrated into an arena, the design of which is dictated by the 400m oval track. The dimensions given are to be adhered to. Permissible deviations are given as tolerances (+ or ± or – ) after each figure. All linear measurements and levels shall be made to the nearest whole mm.

WA Manual stipulates dimensions and equipment for international and other high class competition by elite athletes. For club and school competitions, the dimensions of horizontal jumps landing areas, distance to take-off boards, the lengths of runways, dimensions of landing areas etc. may be reduced. The safety of athletes must be paramount in making such decisions. If you are in doubt as to what is appropriate consult your national athletics federation.

## TYPES OF COMPETITION FACILITIES (Compiled from WA Manual)

### Competition Area for Track Events includes:

- Oval track with at least 4 lanes ( $400\text{m} + 0.04\text{m} \times 1.22\text{m} \pm 0.01\text{m}$ ) and safety zones measuring not less than 1.00m on the inside and preferably 1.00m on the outside
- Straight with at least 6 lanes ( $100\text{m} + 0.02\text{m} \times 1.22\text{m} \pm 0.01\text{m}$  for sprints and  $110\text{m} + 0.02\text{m} \times 1.22\text{m} \pm 0.01\text{m}$  for hurdles)  
Starting area: 3m min. (for 110m Hurdles, category V 2.5m min.). Run-out: 17m min.
- Steeplechase track as for oval track with a permanent water jump ( $3.66\text{m} \times 3.66\text{m} \times 0.50\text{m} - 0.70\text{m}$ ) placed inside or outside the second bend

### Competition Area for Jumping Events

The competition area for jumping events includes:

- Facility for Long Jump with runway ( $40\text{m min.} \times 1.22\text{m} \pm 0.01\text{m}$ ), take-off board ( $1.22\text{m} \pm 0.01\text{m} \times 0.20\text{m} \pm 0.002\text{m} \times 0.10\text{m max.}$ ), placed between 1m and 3m from the nearer end of the landing area, and the landing area 2.75m min. wide with the far end at least 10m min. from the take-off line).
- Facility for Triple Jump as for Long Jump except for a take-off board placed 13m min. for men or 11m min. for women from the nearer end of the landing area for international competitions. For any other competition, this distance shall be appropriate for the level of competition.
- Facility for High Jump with a semi-circular runway (radius 20m min.) and landing area ( $6\text{m} \times 4\text{m min.}$ ).
- Facility for Pole Vault with a runway ( $40\text{m min.} \times 1.22\text{m} \pm 0.01\text{m}$ ), a box for inserting the pole and landing area ( $6\text{m} \times 6\text{m min.}$ ) with an additional forward extension.

### Competition Area for Throwing Events

The competition area for throwing events includes:

- Facility for Discus Throw with throwing circle ( $2.50\text{m} \pm 0.005\text{m}$  diameter), protective cage and landing sector (80m radius, 48m chord)
- Facility for Hammer Throw with throwing circle ( $2.135\text{m} \pm 0.005\text{m}$  diameter), protective cage and landing sector (90m radius, 54m chord)
- Facility for Javelin Throw with runway ( $30\text{m min.} \times 4\text{m}$ ), arc with a radius of 8m and landing sector (100m radius, 50.00m chord)
- Facility for Shot Put with throwing circle ( $2.135\text{m} \pm 0.005\text{m}$  diameter) stop board ( $1.21\text{m} \pm 0.01\text{m} \times 0.112\text{m} \times 0.10\text{m} \pm 0.02\text{m}$ ) and landing sector (25m radius, 15m chord)

### Facilities for Track Events

- Track events include sprint, middle and long-distance, hurdle and steeplechase events.  
The direction of running is anti-clockwise.

- The 400m oval track usually forms the basis of a multi-sports arena. Its dimensions are, therefore, dependent on the requirements of other sports. When integrating the straight and the steeplechase into the oval track, deviations will arise in the longitudinal slopes in some areas. objective to create uniform criteria, not only with a view to improving the performance.
- Although there are a number of different layouts for the 400m oval track, it is IAAF's parameters necessary for equal opportunities for all athletes and for the suitability for competition but also to simplify the principles of construction, surveying and certification of facilities.
- Experience has shown that the most suitable 400m oval tracks are constructed with bend radii of between 35m and 38m, with an optimum of 36.50m.
- WA recommends that all future tracks are constructed to the above specification.

#### MISC DETAILS OF 400 M STANDARD ATHLETIC TRACKS

- Layout of the 400m Standard Athletic Track has the advantages of a simple construction, straight and curved sections of almost equal length and uniform bends which are most suitable to the running rhythm of athletes. Furthermore, the area inside the track is large enough to accommodate all throwing events and also a standard football pitch (68m x 105m).
- The 400m Standard Track comprises 2 semicircles, each with a radius of 36.50m, which are joined by two straights, each 84.39m in length (see Figure above). This diagram indicates the inside edge of the track which must have a kerb, that should be coloured white, with a height of 0.05m to 0.065m and a width of 0.05m to 0.25m. The inner edge of the track is 398.116m in length ( $36.50\text{m} \times 2 \times \pi + 84.39\text{m} \times 2$ ). This length for the edge given a length of 400.001m ( $36.8\text{m} \times 2 \times \pi + 84.39\text{m} \times 2$ ) for the theoretical line of running (measurement line) at a distance of 0.30m from the kerb.
- The inside lane (lane 1) will, therefore, have a length of 400.001m along its theoretical line of running. The length of each of the other lanes is measured along a theoretical line of running 0.20m from the outer edge of the adjacent inside lane.

All lanes have a width of  $1.22\text{m} \pm 0.01\text{m}$ .

- **The 400m Standard Track has 8, 6 or occasionally 4 lanes but the last is not used for international running competition.**
- 9 is the maximum number of oval lanes that should be provided at a facility as otherwise there is too much advantage gained by the athlete in the outside lane in a 200m race over the athlete in the inside lane.
- It is permissible to have any number of sprint lanes on the straights.

#### Dimensional Accuracy of the 400m Standard Track

The dimensional accuracy required for all classes of competition is as under: on the outside edge of the inner track border:

- $84.390\text{m} \pm 0.005\text{m}$  for each of the two straights (2 readings).
- $36.500\text{m} \pm 0.005\text{m}$  for 12 points per semicircle (including kerb) on the arc of the circle approximately 10.42m apart (24 readings)

Alignment of the kerb in the area of the two straights: no deviations greater than 0.01m (2 readings). Ideally, the length of the kerb in the straight and the length of the outer lane measured along

the outside edge of the lane should be equal.

### Safety of the 400m Standard Track

The 400m Standard Track must have an obstacle-free zone on the inside at least 1.00m wide and should have on the outside an obstacle-free zone at least 1.00m wide. Any drainage system positioned under the kerb must be flush with the surface and level with the track.

The outer obstacle-free zone must also be flush with the surface of the track.

### Marking of the 400m Standard Track

- All lanes shall be marked by white lines. The line on the right hand of each lane, in the direction of running, is included in the measurement of the width of each lane.
- All start lines (except for curved start lines) and the finish line shall be marked at right angles to the lane lines.
- Immediately before the finish line, the lanes may be marked with numbers with a minimum height of 0.50m.
- All markings are 0.05m wide.
- All distances are measured in a clockwise direction from the edge of the finish line nearer to the start to the edge of the start line farther from the finish.
- The essential requirement for all start lines, straight, staggered or curved, is that the distance for every athlete, when taking the shortest permitted route, shall be the same, and not less than the stipulated distance, i.e. no negative tolerance.
- For races of 800m or less, each athlete shall have a separate lane at the start. •
- Races of up to, and including 400m shall be run entirely in lanes.
- Races of 800m shall start and continue in lanes until the end of the first bend.

### Facilities for Jumping Events

The Jumping events are Long Jump, Triple Jump, High Jump and Pole Vault. These facilities preferably should not be on the inside field because of the potential safety and event scheduling problems.

### **FACILITY FOR LONG JUMP**

The Long Jump facility includes a runway, a take-off board and a landing area. Usually, it is placed outside the track along one of the straights with two adjacent runways with a landing area at each end, thus allowing competition in either direction by two groups of athletes simultaneously.

### Runway for the Long Jump

The length provided for the runway shall be 40m min. and is measured from the beginning of the runway to the take-off line. The runway shall be  $1.22\text{m} \pm 0.01\text{m}$  wide. It shall be marked by white lines 0.05m wide or broken lines 0.05m wide, 0.10m long and 0.50m apart. The runway is usually covered with the same surface as the track.

### Take-off Board for the Long Jump

The take-off board shall be rectangular and shall measure  $1.22\text{m} \pm 0.01\text{m}$  long,  $0.20\text{m} \pm 0.002\text{m}$  wide and not more than  $0.10\text{m}$  deep. It shall be coloured white. The surface of the take-off board must be flush with the surface of the runway. In the case of a runway with a permanent surface, this requires a built-in installation tray made of corrosion-protected metal in which the take-off board can be correctly positioned. During sport-free periods, the take-off board can be removed. If it has a track surface on its reverse side, it can be turned over and used as part of the runway. This makes it possible to combine Long and Triple Jump with two or three take-off boards (which can be used on both sides) on a Triple Jump runway.

### Landing Area for the Long Jump

The landing area must be  $7\text{m}$  to  $9\text{m}$  long depending on the distance between its nearer end and the take-off line and shall be  $2.75\text{m}$  min. wide. Generally, a landing area length of  $8\text{m}$  placed  $2\text{m}$  from the take-off line is recommended. The landing area shall, if possible, be so placed that the middle of the runway coincides with the middle of the landing area. If two landing areas are situated parallel side by side, the distance between them must be at least  $0.30\text{m}$ . If two landing areas are staggered, the separation between the two areas must also be at least  $0.30\text{m}$ . The landing area should have a border not less than  $0.05\text{m}$  wide and  $0.30\text{m}$  high, rounded off towards the inside (e.g. wooden plank or concrete border with soft covering) and level with the ground. The landing area must have a water permeable substructure or a suitable drainage system (draining well or canal connection) and be filled with sand to a depth of not less than  $0.30\text{m}$  at the edges and slightly deeper at the centre.

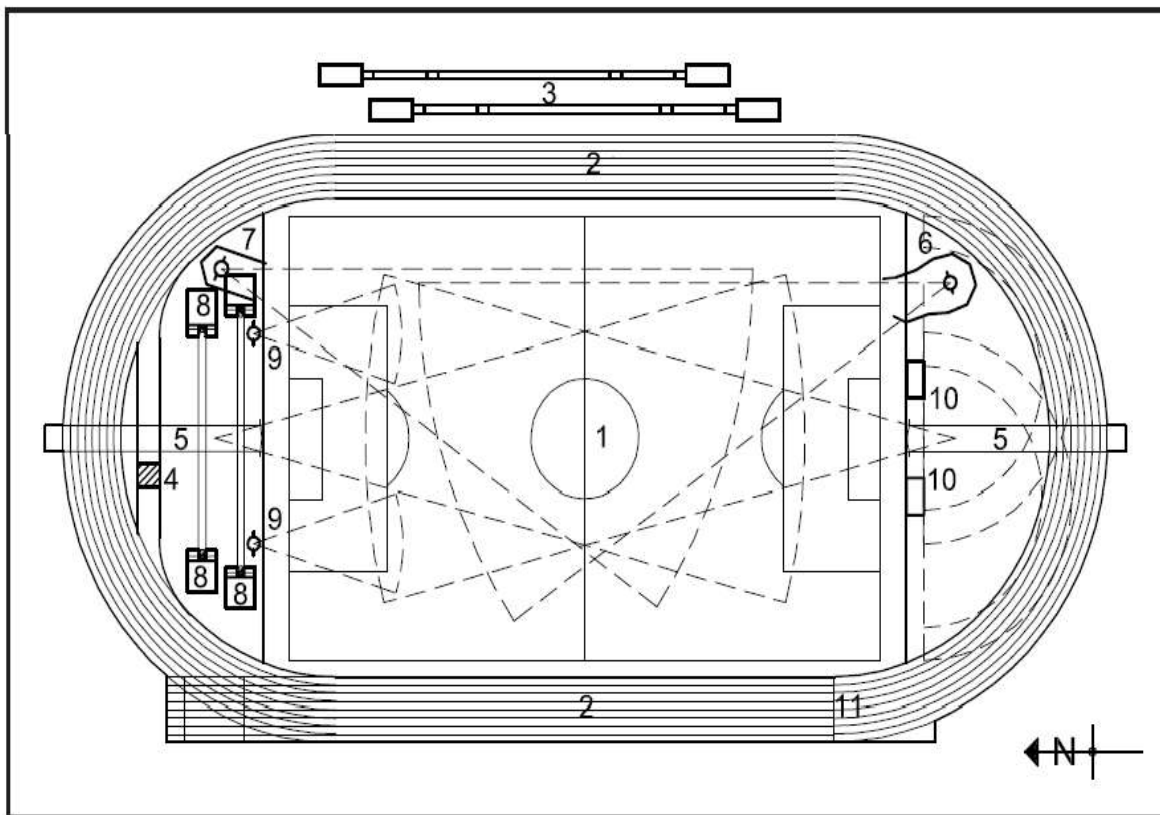
### Layout of the Facility for the Triple Jump

Except for the placement of the take-off board, the same facilities are used for Triple Jump as for Long Jump. For international competition, it is recommended that the take-off board shall be not less than  $13\text{m}$  for men and  $11\text{m}$  for women from the nearer end of the landing area. For other competitions, this distance shall be appropriate for the level of competition.

### Layout of the "Standard Competition Area"

The Field Events are evenly distributed over the arena to avoid congestion and to satisfy the needs of the spectators. This layout avoids undue disruption of events by ceremonies and counterbalances the concentration of interest in the finish area. The layout is, of course, flexible. Local climatic conditions particularly wind conditions and the effects of the rays of the sun on jumpers / valuers must be considered.





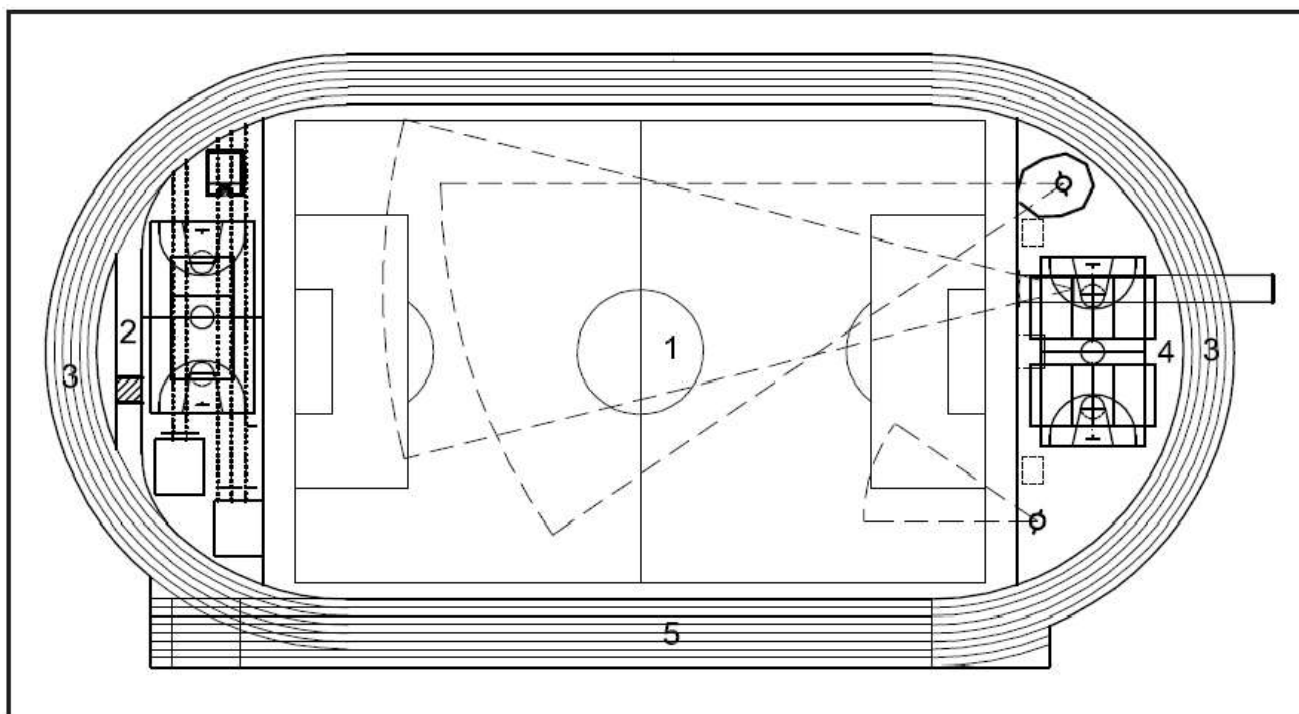
**Figure 2.5a - Standard layout of competition facility**

- |                                    |                         |
|------------------------------------|-------------------------|
| 1 Football pitch                   | 7 Discus Throw facility |
| 2 Standard Track                   | 8 Pole Vault facility   |
| 3 Long and Triple Jump facility    | 9 Shot Put facility     |
| 4 Water jump                       | 10 High Jump facility   |
| 5 Javelin Throw facility           | 11 Finish line          |
| 6 Discus and Hammer Throw facility |                         |

### 2.3.4 Alternatives for Training Facilities

During the planning and construction stages for training facilities, a variety of alternatives are permissible. Long jump facilities, for example, may have several runways next to each other. High Jump training facilities may be arranged to allow for run-ups from both sides of the landing mats. Shortened runways may also be considered - especially for school sports. The size of landing mats must be commensurate with the height being jumped by the athletes. However, a prerequisite for all facilities is the observance of safety aspects.

Generally, training facilities cater for several events of Track and Field and, where the facilities for Track and Field are combined with small pitches, for ball games. Of course, this type of design will normally preclude a simultaneous use of the facilities for the individual sports available there. Organisational measures can be implemented to overcome this disadvantage (e.g. scheduling of training times). On the other hand, this type of design will result in considerable savings in terms of space and building costs. Alternative layouts for training facilities as under are compiled from WA Handbook

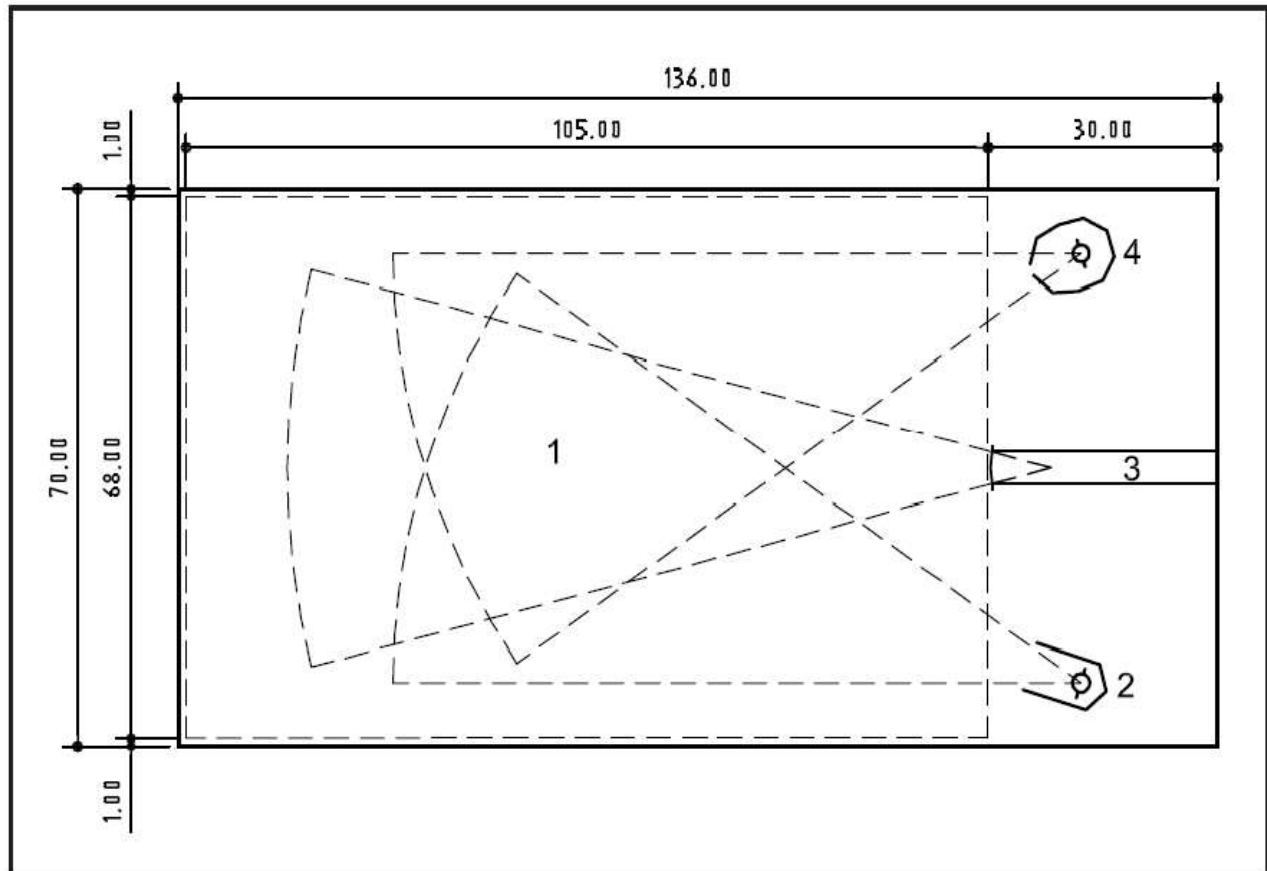


#### **400m Standard Track as a warm-up and training area**

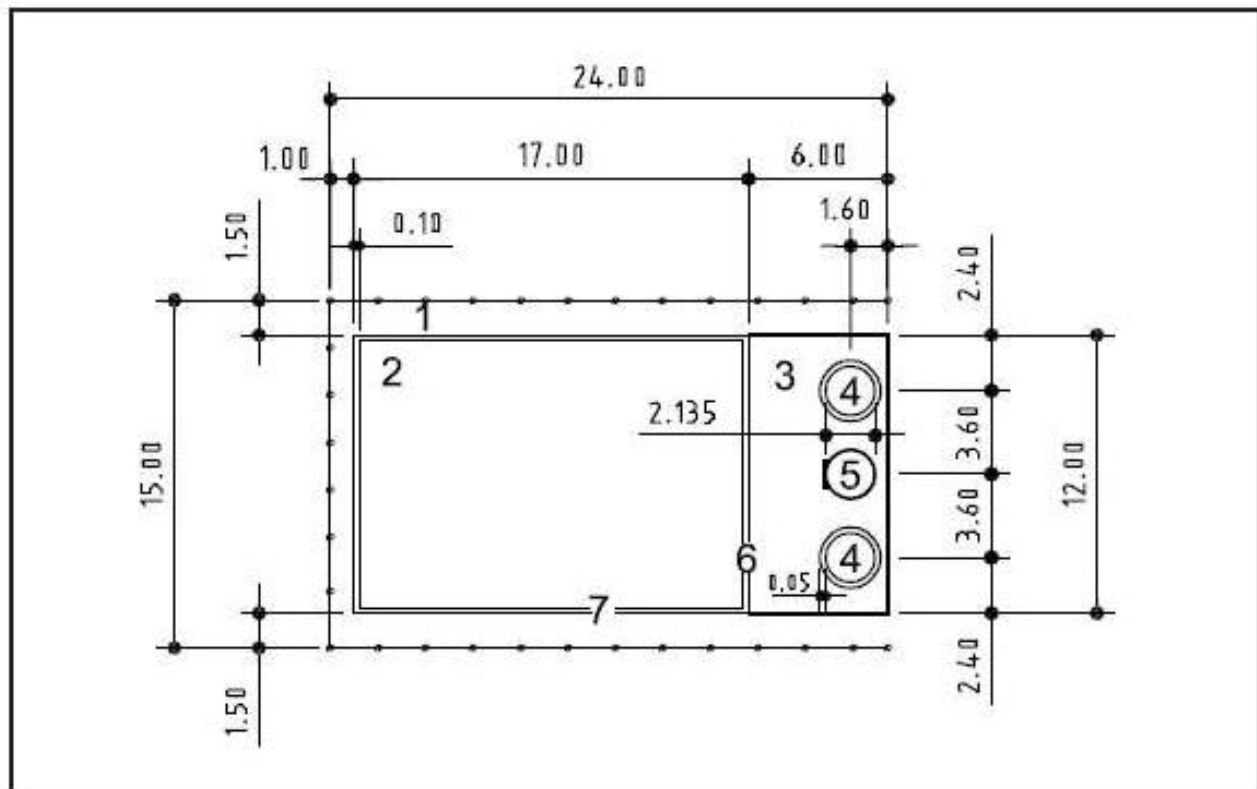
(Dimensions in m)

- 1 Track interior (playing field and landing area for throwing events)
- 2 Segment with water jump, Pole Vault, Long and Triple Jump, and ball games area for basketball and volleyball
- 3 Six-lane oval track
- 4 Segment with Discus / Hammer circle, Shot Put circle, High Jump, Javelin Throw, ball games area for volleyball (2 courts) and basketball
- 5 Eight-lane straight

## Warm-up and training area for throwing events (Dimensions in m)



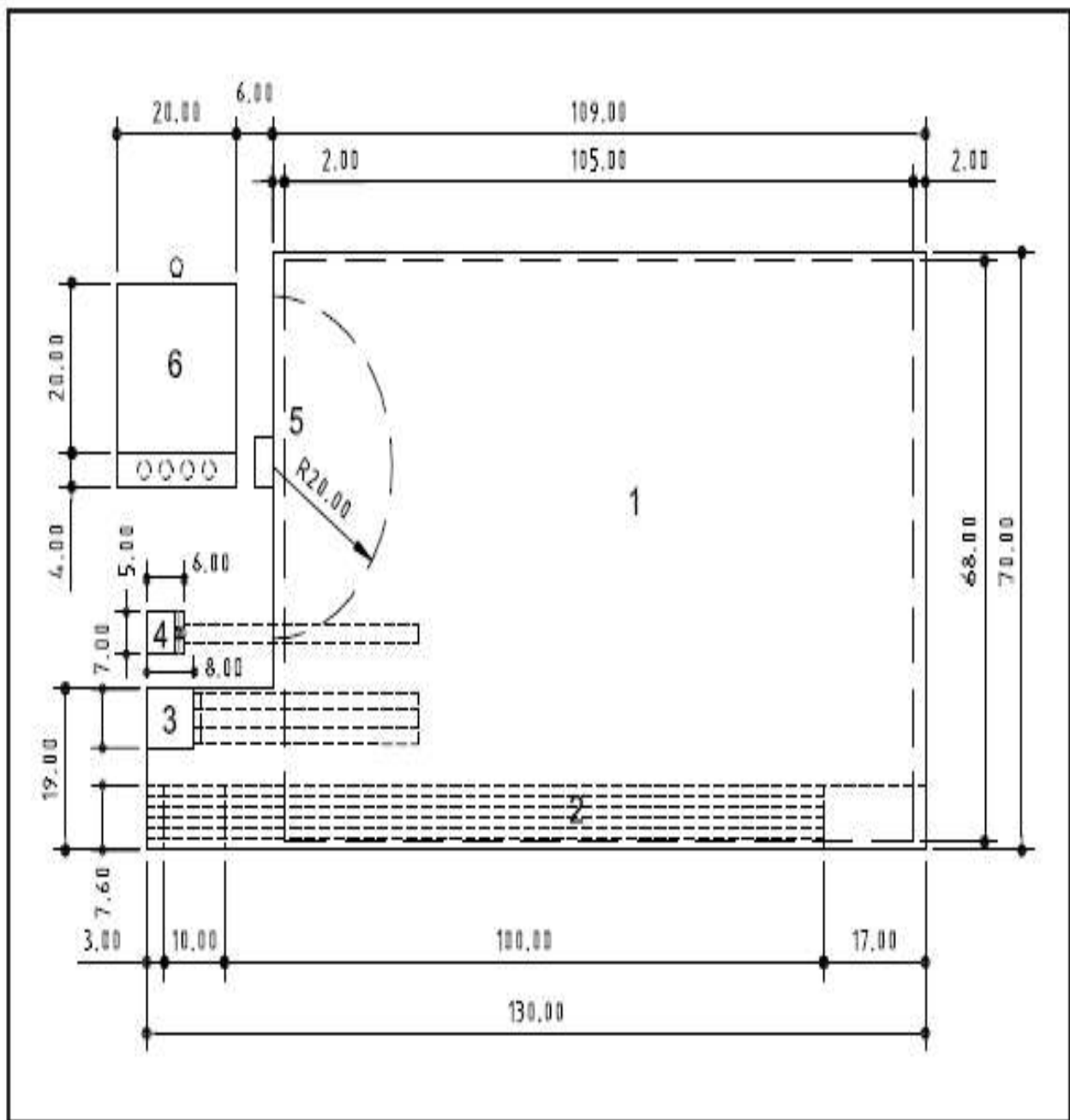
- 1 Playing field and landing area
- 2 Discus circle with safety cage
- 3 Javelin runway
- 4 Hammer circle with safety cage



**Figure 2.6.5b - Shot Put training area (Dimensions in m)**

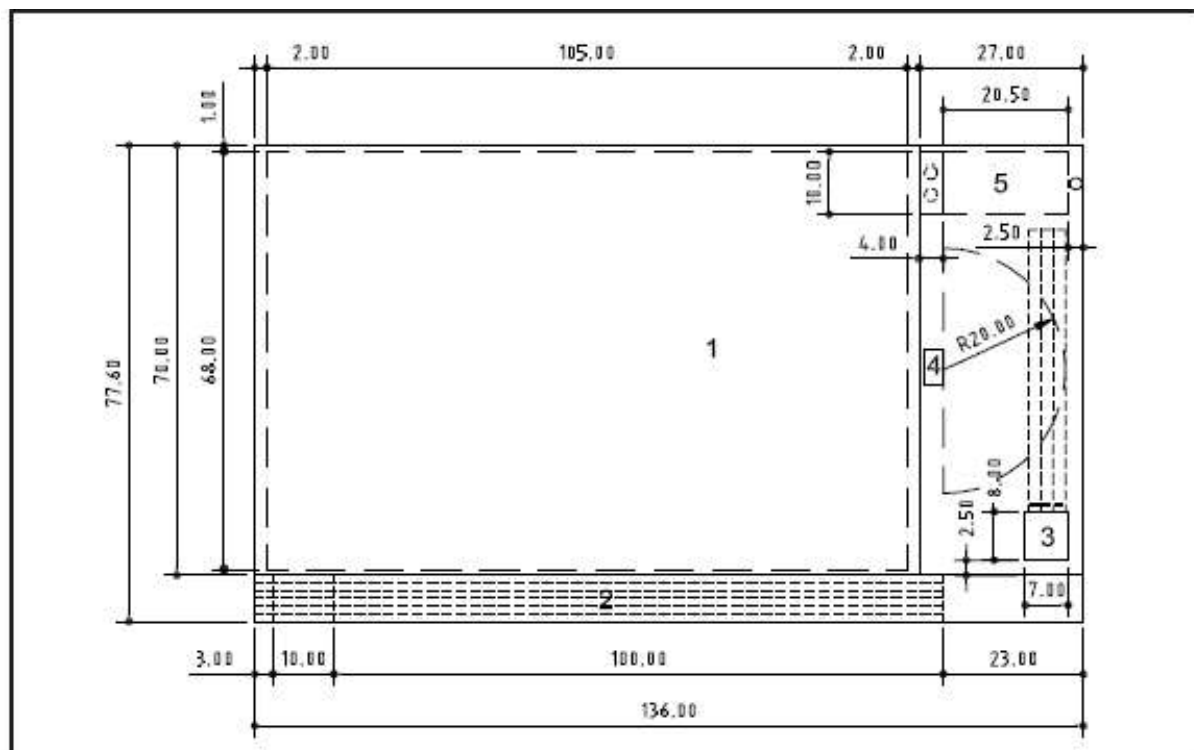
- 1 Periphery with safety barrier and shot-resistant surface
- 2 Landing area (unbound mineral surface)
- 3 Concrete area with three Shot Put circles
- 4 Marked circle
- 5 Recessed competition circle with stopboard
- 6 Separation between concrete slab and landing areas
- 7 Landing area surround with soft covering for safety

If international standard athletes are to use the Shot Put facility particularly if they use a two-handed over the shoulder training technique, then the length of the Shot Put training area shown in Figure 2.6.5b needs to be increased.



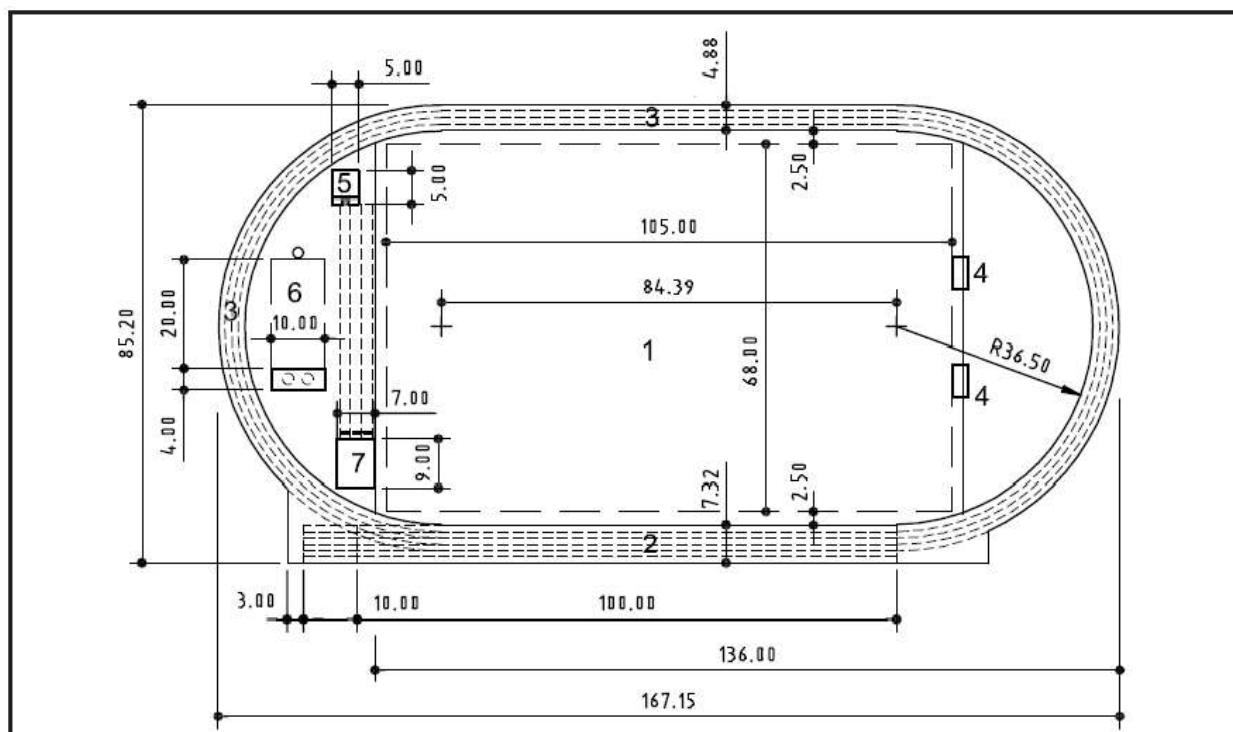
**Figure 2.6.6a - Multi-purpose facility for ball games and athletics (Dimensions in m)**

- 1 Playing field, 68m x 105m (unbound mineral surface)
- 2 Six-lane straight marked on the playing field
- 3 Three-lane long jump
- 4 Pole Vault
- 5 High Jump
- 6 Shot Put area with four painted circles on a concrete slab and one competition circle



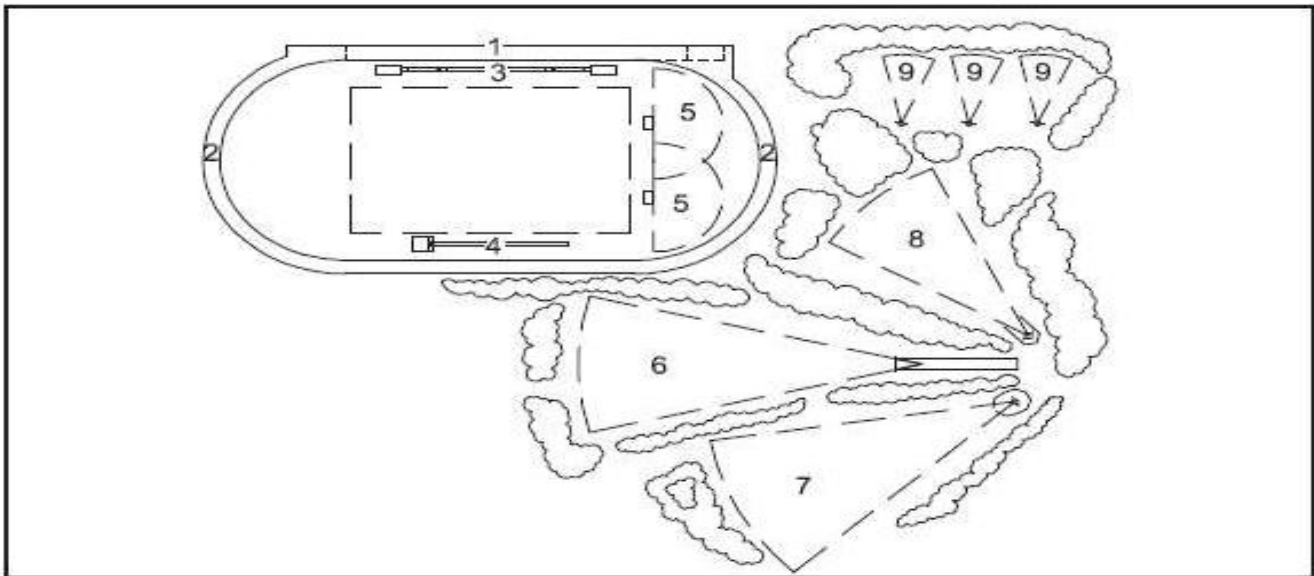
**Figure 2.6.6b - Multi-purpose facility for ball games and athletics** (Dimensions in m)

- |   |  |
|---|--|
| 1 Playing field, 68m x 105m (grass surface) | 4 High Jump  |
| 2 Six-lane straight                         | 5 Shot Put area with two painted circles on a concrete slab and one competition circle |
| 3 Three-lane long jump                      |  |



**Warm-up area with 400m Standard Track and large playing field (Dimensions in m)**

- |                             |  |
|-----------------------------|--|
| 1 Playing field, 68m x 105m | 5 Pole Vault   |
| 2 Six-lane straight         | 6 Shot Put area with two painted circles on a concrete slab and one competition circle |
| 3 Four-lane oval track      | 7 Long and Triple Jump   |
| 4 High Jump                 |  |



**Figure 2.6.6d - Warm-up area with separate areas for throwing events**

- |                        |                 |
|------------------------|-----------------|
| 1 Four-lane straight   | 6 Javelin Throw |
| 2 Four-lane oval track | 7 Hammer Throw  |
| 3 Long and Triple Jump | 8 Discus Throw  |
| 4 Pole Vault           | 9 Shot Put      |
| 5 High Jump            |                 |



## **PERFORMANCE REQUIREMENTS**

### **Durability**

The durability of synthetic surfaces relates to how well they withstand mechanical wear as well as their resistance to environmental factors. Outdoor athletics probably represents the most severe all-round test for synthetic surfaces. The surface must withstand the combined effects of compaction, abrasion, spike-damage, UV light, water, and variations in temperature. Indoor surfaces have somewhat less to contend with in that generally there would be no effects due to water and UV. It is hardly surprising that in the long-term, synthetic surfaces do sustain mechanical damage and in addition they may discolour and they may change in resilience.

Mechanical damage would mainly take the form of loss of texture from the surface layer, together with cutting from the athletes' spiked footwear. Obviously these effects would be most apparent in the heavily used areas such as the inside two lanes of the track, the end of the Javelin runways, the High Jump and the Pole Vault take off points.

Loss of adhesion to the base or edge kerbings might occur, as might loss of adhesion between individual layers of multi-layer systems. This adhesion loss would result in delimitation of the surface from the base or from itself.

All mechanical breakdown of the surface will be exacerbated by the influence of the environment to which the surface is exposed.

These were fairly common problems in the early life of the synthetic surfaces industry, in the late 1960's, However, modern formulations and the attention now paid by reputable manufacturers and installers of the raw materials to quality control, compatibility and consistency of the products, has meant that the synthetic surface is likely to retain its performance properties within reasonable limits, for its full anticipated service life. Bubbling of the synthetic is often evidence of water penetrating under the synthetic surface. The point(s) of water penetration should be determined immediately, eliminated and the damaged surface repaired to prevent further damage and also for athlete safety.

### **Effectiveness**

The effectiveness of the surface is a matter of prime concern to all users of a facility. Certain performance requirements must be met if athletics is to take place on the surface with comfort and safety for the athletes. These fundamental requirements have been laid down by the WA, and are as follows:

### **Imperfections**

It is obvious that serious surface imperfections such as bubbles, fissures, delimitation etc are unacceptable on grounds of safety and because of the effect they may have on durability and on dynamic performance of the surface. Wherever they occur, they must be rectified as a matter of priority.

### **Evenness**

The very tight tolerances for overall gradients permitted by the WA are well known, because of the need to ensure that the slope of the surface gives no assistance to athletes. On a localised level, there shall be no bumps or depressions beneath a 4m straightedge exceeding 6mm, or beneath a 1m straightedge exceeding 3mm, at any position and in any direction. There shall be no step-like irregularities greater than 1mm in height, for instance at bay joints in in-situ surfaces or at seams in prefabricated sheet.

These limits are laid down not only to ensure safety for the athletes, but also to minimise standing water after rainfall, on non-porous surfaces. The presence of large areas of standing water, or of water pounding to any significant depth in key areas of the facility such as the High Jump take off point, can lead to serious delays in the scheduling of events. The possible effect of such delays on major international events which are being televised world-wide can easily be imagined. Even for smaller national competitions, such delays can create severe difficulties for athletes, officials and spectators.

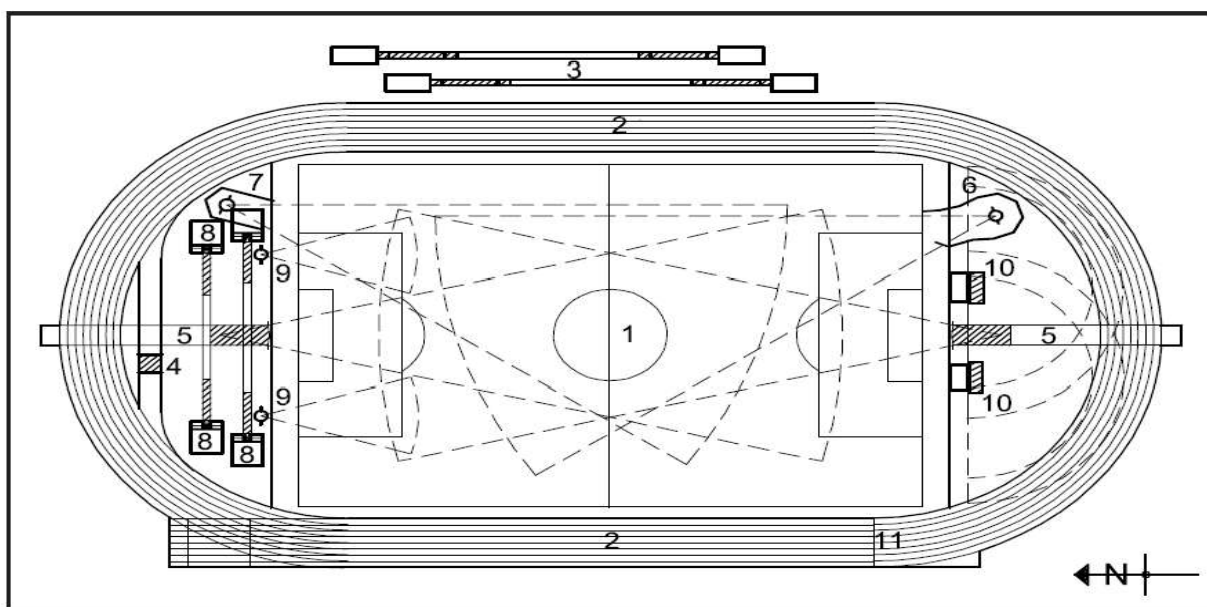
### Thickness

The thickness of a synthetic surface is of fundamental importance to the characteristics exhibited by the surface. To a certain extent, the durability of the surface is dependent on its thickness, particularly with respect to mechanical wear.

It is also quite apparent that if the WA Rules permit athletes to use footwear with spikes of a certain length, the surface must be of a thickness which will be adequate to take that length of spike, plus an excess of thickness to allow for wear and weathering. It is obviously for this reason that certain areas on a facility, such as at the throwing end of the Javelin runway, and at the ends of other runways where an athlete plants his foot with considerable force and there is a greater impact on the athlete's legs, shall be of greater thickness than most areas of the synthetic surface. Not only do the longer spikes permitted for the High Jump and Javelin Throw, penetrate deeper into the surface, but the degree of damage which they inflict on the surface is that much greater.

By far the most important reason why a minimum thickness must be stipulated is that the dynamic characteristics of the synthetic surface are critically dependent on its thickness. If the surface is too thin, its force reduction and deformation properties will be adversely affected, for example it will feel hard and unyielding to athletes.

However, if it is over thick, the converse does not usually apply, that is it will not necessarily feel too soft and compliant. It is for this reason that it is not necessary to stipulate a maximum thickness of synthetic surface. The thickness of the surface shall be determined to meet force reduction and vertical deformation requirements hereunder. The WA Product Certificate for a synthetic surface material indicates the absolute thickness at which a sample of the material, tested in a laboratory at laboratory temperature, complied with the specifications in the WA Track Facilities Testing Protocols.



### Areas with thicker layers of synthetic surface (shaded)

- |                                      |                         |
|--------------------------------------|-------------------------|
| 1 Football pitch                     | 7 Discus Throw facility |
| 2 Standard Track                     | 8 Pole Vault facility   |
| 3 Long jump and Triple Jump facility | 9 Shot Put facility     |
| 4 Water jump                         | 10 High Jump facility   |
| 5 Javelin Throw facility             | 11 Finish line          |
| 6 Discus and Hammer Throw facility   |                         |

Runway	Thickness mm	Length
High Jump	20	Last 3m
Triple Jump	20	Last 13m
Pole Vault	20	Last 8m
Javelin Throw	20	Last 8m plus overrun
Steeplechase Water Jump	25	Water jump landing

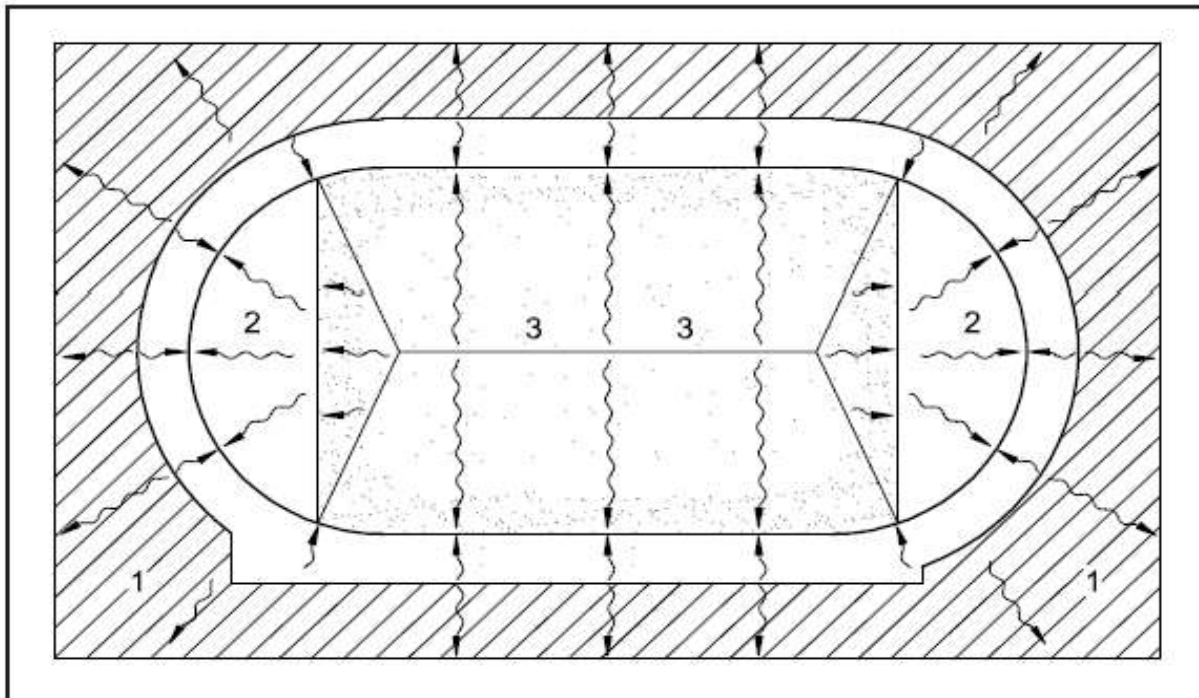
### Drainage

The very slight gradients, which are permitted for athletics facilities, make the shedding of water from non-porous surfaces difficult, although not impossible. The presence of large areas of standing water, or of small areas in key locations such as the High Jump take-off point, can seriously delay the schedule of a major competition. It is for this reason that the WA stipulates that 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. Porous surfaces should rarely give problems of this nature. If such problems do occur, they are invariably the result of either the excessive application of the textures paint coating, or of inadequate porosity in the sub base foundations for the facility or in the drainage system taking water away from the base construction.

## 2.2 Hydraulic Dimensioning of the Ground Drainage System

If only seepage water from the top surface or ground and stratum water has to be carried away, hydraulic calculations are not needed due to the comparatively small area of gathering ground of sports facilities. The following pipe diameters have proved adequate:

- Drainage channels within the sports areas (suction) - **65mm**
- Collection lines, ring mains for carrying off volumes of water from Playing field drainage channels for a sports area of up to 3500m<sup>2</sup> - **100mm**
- Collection lines, ring mains for carrying off volumes of water from playing Field drainage channels for a sports area of between 3501m<sup>2</sup> and 5000m<sup>2</sup> - **125mm**
- Collection lines, ring mains for carrying off volumes of water from playing Field drainage channels for a sports area of between 5001m<sup>2</sup> to 7500m<sup>2</sup> - **150mm**
- Collection lines, ring mains for carrying off water from playing field drainage channels for sports area of between 7501m<sup>2</sup> and 15,000m<sup>2</sup> - **200mm**



**Figure 3.3.1 - Direction of flow of the surface water and discharge coefficients of the respective surfaces (in brackets)**

- 1 Groundwater, vegetation areas (0.25), paved paths (0.60), asphalted paths (0.80), waterbound paths (0.30)
- 2 Unbound mineral surface (0.50), non-permeable synthetic surface (0.90), permeable synthetic surface (0.50), turf (0.25)
- 3 Turf (0.25), synthetic turf (0.60)

**Note:** for more details, WA Track and Field Facilities Manual may be referred

## 2.6. TESTING OF SYNTHETIC TRACK SURFACE

The performance of the surface for athletics is obviously of paramount concern to the WA, the testing and investigation of these facilities is a much specialised activity, requiring complicated test apparatus and considerable experience in its use and the interpretation of the results generated. It is for this reason that the WA has enlisted the assistance of a network of test laboratories around the world, all suitably equipped and experienced in athletics track testing. The list of current WA accredited laboratories for testing synthetic track surfaces can be found on the WA website.

The best check of the quality of the finished track facility is to have an in-situ performance test undertaken by an WA accredited laboratory. Such a test is mandatory for a facility seeking an WA Class 1 certificate. Where an in-situ test is not being undertaken, it is recommended that for quality assurance purposes the surfacing installer is instructed to prepare control samples at the rate of one sample per 600m<sup>2</sup> of installed surface. The samples should be cast beside the track using the same materials and techniques. The absolute thickness of the samples should be the same thickness as listed on the WA Product Certificate for the synthetic material. The size of the samples should not be less than 600mm x 600mm.

The thickness of Synthetic track shall be as approved by WA for a particular manufacturer

### **Sandwich Type Synthetic Athletic Turf:**

It is a three-layer system

**Base layer** : Polyurethane binder and SBR granules laid with the specialised paver

**Central layer:** Seal coat using polyurethane and EPDM powdered rubber

**Top layer:** Premium polyurethane embedded with EPDM rubber granules

**Recommended to be laid in SAI Regional Centres & major STCs/SAG Centres where National campus are not held.**



### **Special Note**

- The installation of any polymeric synthetic athletics track surface should be done during the spring/summer/dry months.

- The minimum absolute thickness of the synthetic athletic track shall be as approved by WA for the particular product of the licensed manufacturer.

### **Additional Specifications**

Item No. 1 of the BOQ defines the Architectural, Structural, Geotechnical, Plumbing, Mechanical and Electrical designing services for the athletic track and football ground. The scope of the item includes designing and preparation of drawing for the entire facility (layout plan) matching the existing master plan, integrating the services with the existing master plan. The Geotechnical investigation of the existing soil to check the SBC, Permeability and other parameters required for designing the cross section of the fields to achieve the slope, optimal drainage, load bearing, etc. as well as the drainage structures within the facility.

The design of the sprinkler system including its automation of the system including necessary electrification works are part of the scope. The contractor shall submit the drawing for approval prior to execution. The entire design of the field along with necessary test reports, design reports and drawings shall be submitted within 21 days from the date of start of the work.

The contractor shall submit 3 sets of A0 drawing for each approved drawing. Further, 2 copies of the test reports and design reports shall be submitted in a spiral booklet. The tests shall be conducted through NABL certified labs and the design to be carried out by reputed agencies. The onus of the correctness of the drawing shall be the responsibility of the contractor and in case of errors/non-compliance/failure found later shall be corrected at the contractors own cost.

The design and execution shall ensure compliance of the Class II certification of WA athletic track and obtaining the certification for the same shall be part of the synthetic athletic track item. The surface area should be flooded with water, to ensure there is no stagnation more than the permissible limits by WA.

Video clippings of installation process, line marking and WA certification process may be made and kept on record for future references.

The contractor shall submit the detailed schedule of work prior to start of the project matching the milestones and further Fortnightly work report shall be submitted by the contractor as per the format approved by the Engineer in Charge.

The contractor shall ensure the items procured match WA standards and also are certified by WA, wherever applicable.

The civil works shall be carried out as per the following priority CPWD specification, IS standards or manufacturer specification.

The Natural football field should be provided with a sprinkler system with complete automation unit including supply and laying appropriate sized and designed HDPE pipes from pump room/ nearby tapping location to the entire network of football ground. The necessary number of pop up sprinklers of approved makes, all types of valves, specials, boxes, etc. to make the system complete and integrating the same with the pump system and automation of the same. and providing a filtration unit to designed as per the requirement of the whole football field.

The works to be governed by this contract shall cover delivery and transportation up to destination, safe custody at site, insurance, erection, testing and commissioning of the entire work.

The works to be under taken by the contractor shall inter-alia include the following:

- I. Preparation of detailed Structural drawing, SHOP drawings and 'AS BUILT' drawings
- II. Obtaining of Statutory permissions wherever applicable and required.
- III. Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.
- IV. Contractor shall provide all the shop drawings or layout drawings for all the co-ordinated services before starting any work or placing any order of any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material sample for approval of Engineer-in-Charge prior to delivery of material at site.

Wherever the BOQ item stipulates design, the contractor shall have to supply designs and structural drawings which shall have to be vetted by any reputed Government Engineering College like IITs/NITs etc., as approved by Engineer-in-Charge, and all costs towards the same, including charges for vetting shall be deemed to have been included in the quoted rates. Cost of proof checking of structural design shall be borne by the Contractor.

The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

For works below ground level, the contractor shall keep that area free from water. If dewatering or bailing out of water is required, the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the tender document.

The contractor shall make all necessary arrangements for protecting works already executed from rains, fog or likewise extreme weather conditions and for carrying out further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account and also no claims for hindrance shall be entertained on this account.

In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the bid document. Also, the contractor shall make good, at his own cost, the damages caused, if any. Further, no claim for hindrance shall be entertained on this account.

#### SETTING OUT

- (i) The contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-charge & proceed further. Any discrepancy between architectural drawings and actual layout at site shall be immediately brought to the notice of the Engineer-in-charge. It shall be responsibility of the contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc., Nothing extra shall be payable on this account.
- (ii) The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer-in-charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- (iii) If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of

the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-charge. Nothing extra shall be payable on this account.

- (iv) The contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The contractor shall protect and maintain temporary/ permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer- in-charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.
- (v) The approval by the Engineer-in-charge, of the setting out by the contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- (vi) The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer– in-charge.
- (vii) The rate quoted by the contractor is deemed to be inclusive of site clearance, setting out work (including marking of reference points, centre lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc., any extra excavation of earth wherever required and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

wherever applicable and nothing extra on this account is admissible.

A site laboratory with the minimum equipments as specified in CPWD specifications/in this bid document shall be established, made functional and maintained within one month from the award of work as per list without any extra cost to the department. In case of non-compliance / delay in compliance in this, a recovery @ Rs.1000/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor

The contractor should make temporary arrangement for sewage disposal, water supply and electricity for completed building to make them to functional in case permanent arrangements are not ready.

#### PROJECT PROGRAM CHART

The Contractor shall prepare an integrated program chart within fifteen days of issue of award letter including civil as well as associated activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfilment of the program within the stipulated period and submit the same for approval of the Engineer-In-Charge within fifteen days of the award of the work. The program chart should include the following: -

- a) Descriptive note explaining sequence of various activities.
- b) Construction Program prepared on PRIMAVERA/ Software, which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
- c) Program for procurement of materials by the contractor.



- d) Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.
- e) Program of procurement of machinery/equipment having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.
- f) Program for achieving fortnightly micro milestones and periodic milestones.

**Approved Make List**

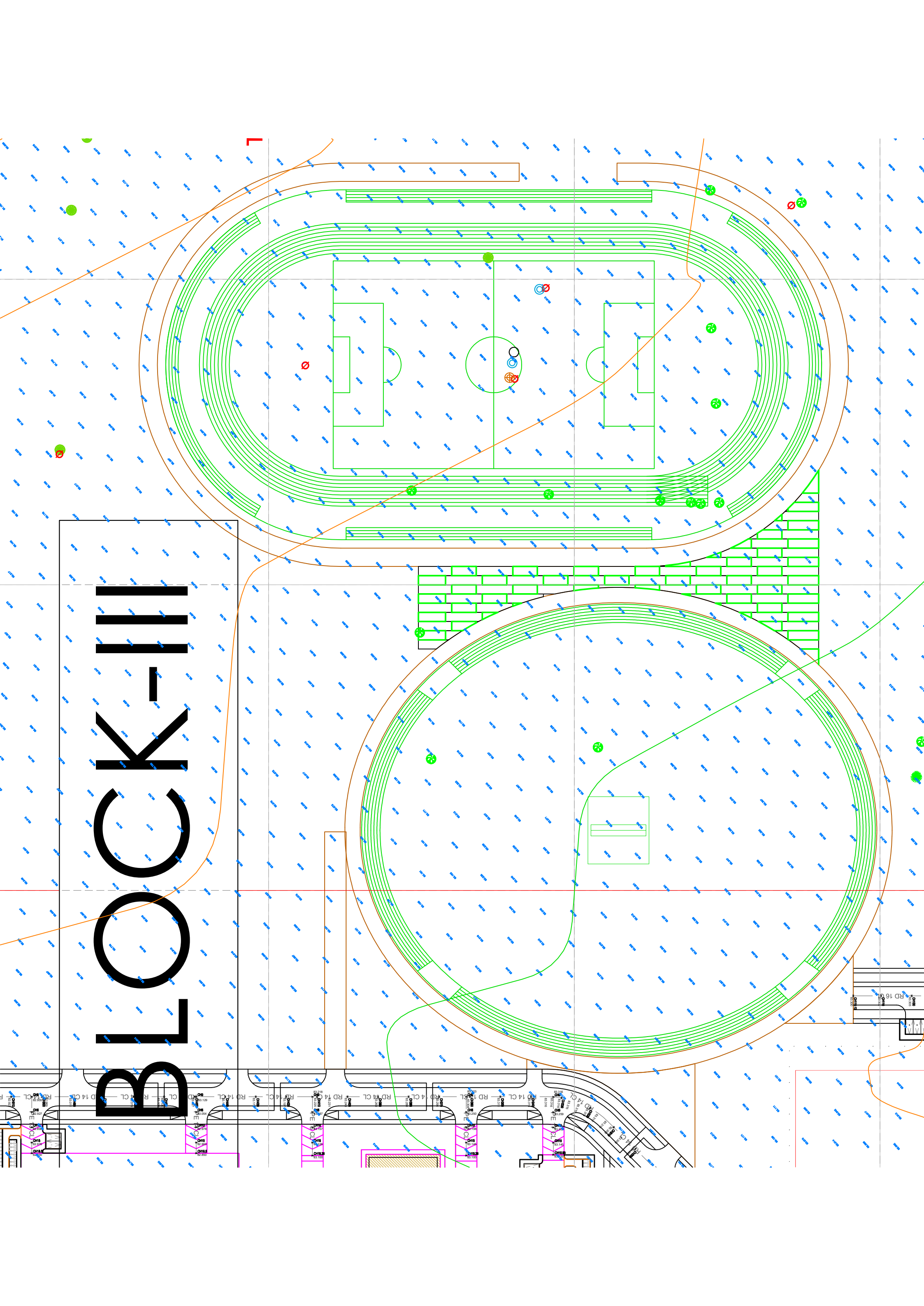
<b>S.No.</b>	<b>Materials</b>	<b>Approved Make</b>
1	Chloropyriphos	PIRAMID (AMVAC Agri Rasayan Pvt., Ltd.), NOBAN (Chemtts wets & Flows Pvt., Ltd), DURSBANTCT (DE-NOCIL Ltd.), Premise Agenda (Bayer Ltd.), HILBAN (Hindustan insecticides Ltd.), Sarup's Pest Control (Dr. Sarup's Pest Control Ltd.)
2	Ordinary Portland Cement & Plain Portland Pozzolona Cement	ACC (ACC Cements Ltd.), Ultra tech (Ultra tech Cement Ltd.), Coromandel (India Cements Ltd), Ambuja Cement (Ambuja Cements Ltd.), JK Cement (JK Cement Pvt., Ltd.), Bharathi Cement (Bharathi Cement Corporation Ltd.),
3	TMT bars Fe- 500D	SAIL (Steel authority of India Ltd.), TISCO (TATA Steel Ltd.), VIZAG TMT (Rashtriya I spat Nigam Ltd.), JSW (JSW Steel Ltd.).
4	Interlocking Concrete Paver Blocks	Dazzle (Dazzle designer tiles (P) Ltd.), Ultra (Ultra tiles Pvt., Ltd.) Shree (Shree Bharat Paver blocks), Hindustan tiles (Hindustan tiles, Ranchi Pune), Vyara tiles (Vyara Tiles Pvt., Ltd. / Surat), NITCO (ROCKARD) (NITCO), BHARAT (NILSAN) (Bharat), REGENCY (Regency), Basant Betons (Basant Betons). / Equivalent
5	RCC Pipes	Indian Hume Pipe (Indian Hume Pipe Ltd.), Maduraj Spun pipe (Maduraj Spun pipes Company), Lakshmi Sood &Sood (Lakshmi Sood &Sood Pipes Co), Jain & Co (Jain Spun Pipes Co).
6	Enamel Paint	Premium gloss enamel (Asian paints Ltd.), Akzo Nobel (Dulux) (Akzonobel India),

S.No.	Materials	Approved Make
		Nerolac (Nerolac Paints Ltd.), Berger (Berger Paints), Nippon (Nippon Paints India Ltd.).
7	Structural Steel	Tata Steel JSW SAIL Jindal
8	HDPE Pipes	Astral Pipes JP Polyplast Berlia Pipes Supreme industries/ Equivalent
9	Pop up sprinkler	SIME Vyrsa Signature
10	Valves	Harit Aqua Irritech Harit ARI Zoloto Armas Bermad MAIS Carson Palapast
11	Sprinkler Automation	HIT K-Rain Rain-Spa
12	Motor	Kirloskar /ABB/Crompton Greaves / Siemens/Jyothi/Bharat Bijili / Grundfos
13	Wires & cables	Polycab/Finolex / RR-kabel/ L&T/ Havells /Lapp India/Asmon/V-Guard
14	Contactors & DOL startes	Siemens /L&T /GE /ABB/BCH
15	Illuminated lams, push buttons, protective relays	ABB/ L&T/ Schneider/Siemens
16	Track Surface	Sandwich type surface approved by World Athletics of thickness more than 14mm

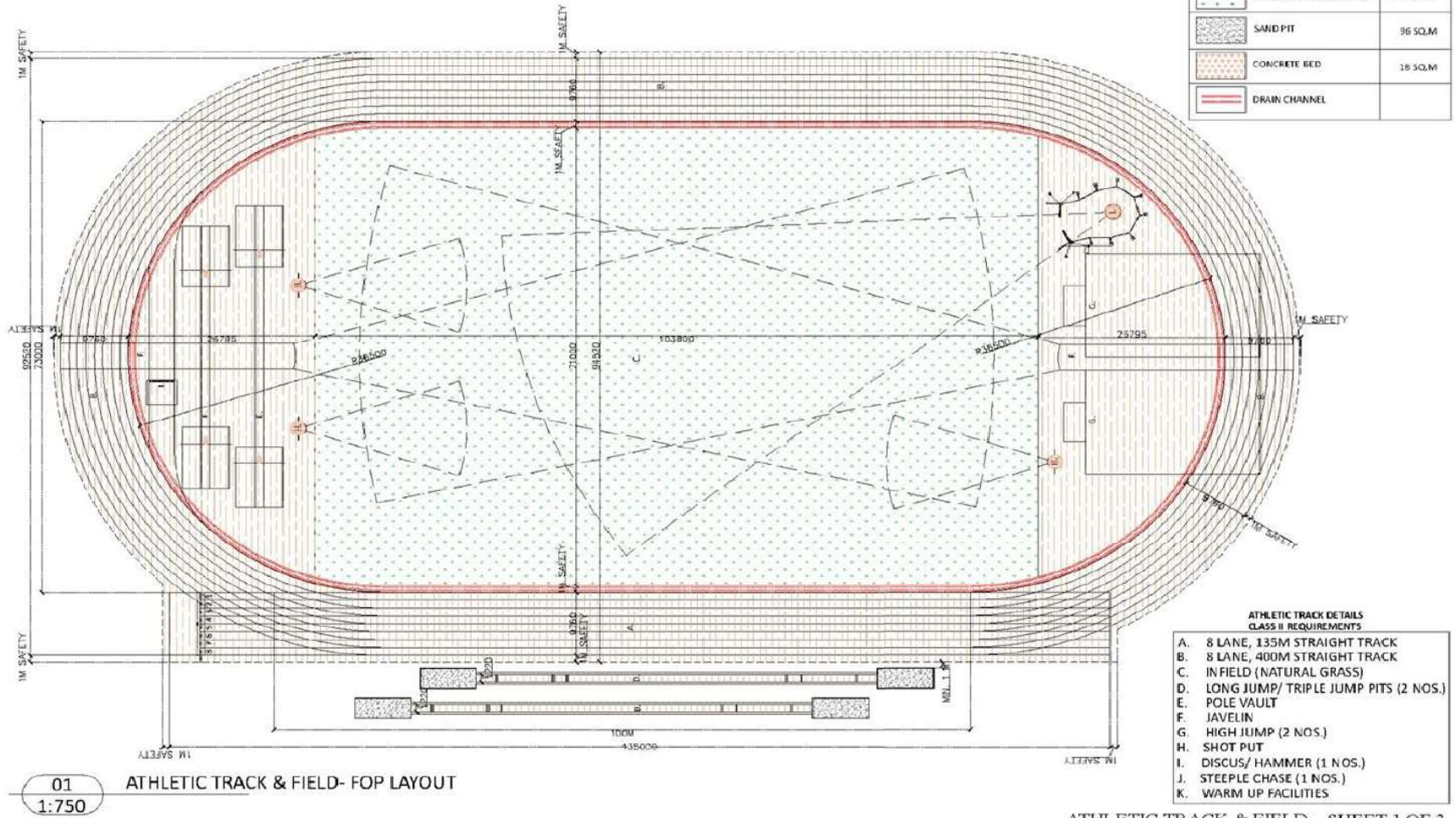




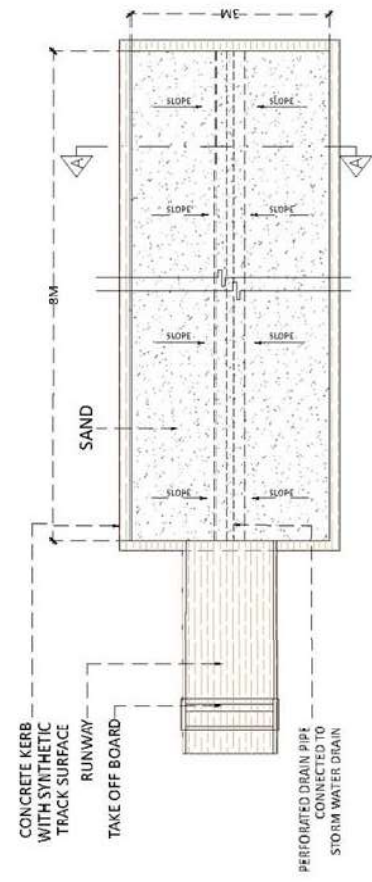




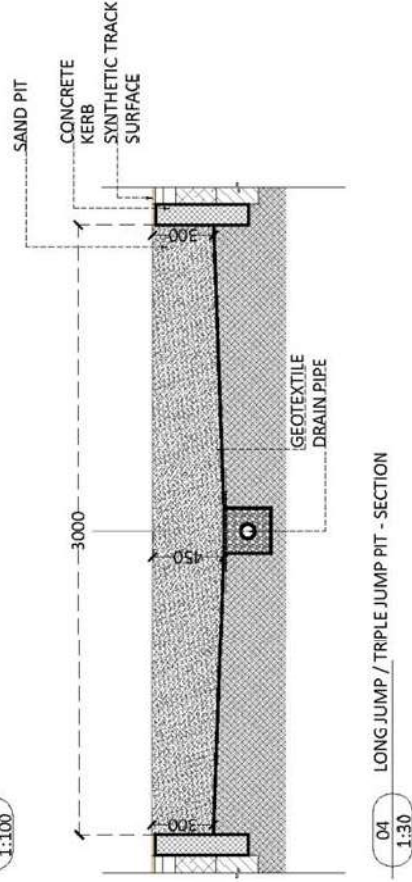
NOTE: REFERRED HANDBOOK- 'WORLD ATHLETICS- TRACK & FIELD FACILITIES MANUAL'  
 CLASS II CONSTRUCTION CATEGORY  
 INFIELD TO BE USED FOR THROWING EVENTS ONLY.





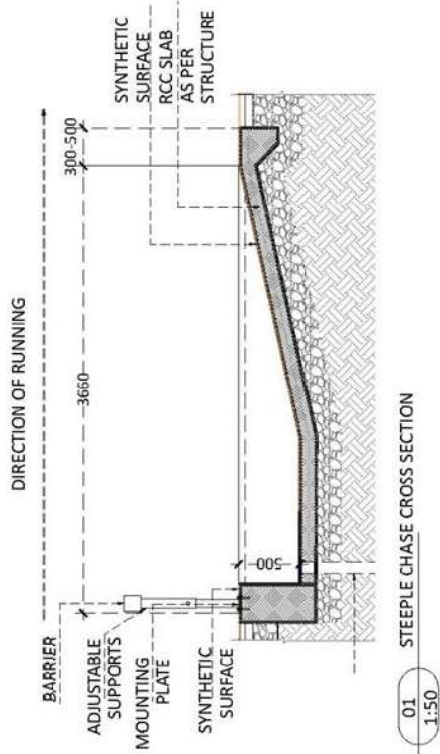


03 LONG JUMP / TRIPLE JUMP PIT - PLAN  
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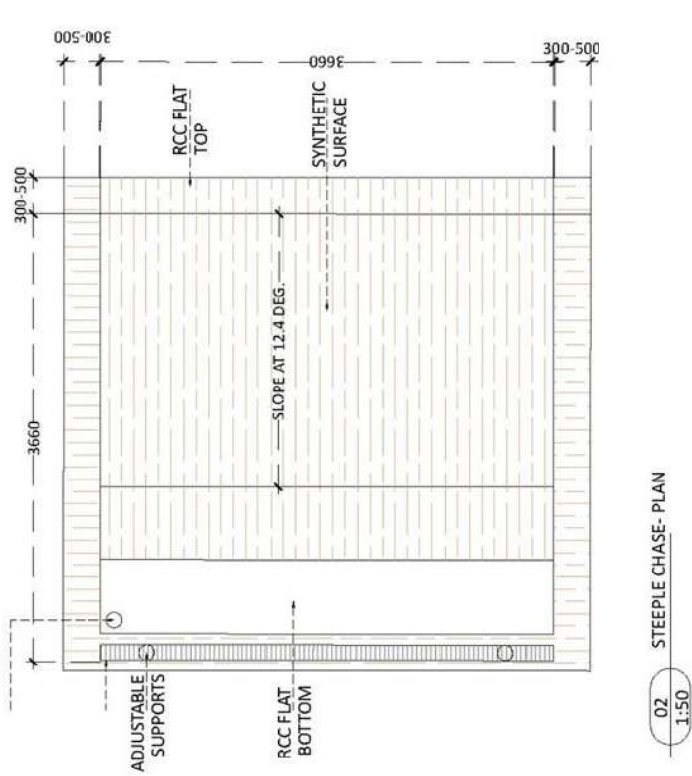


04 LONG JUMP / TRIPLE JUMP PIT - SECTION  
1:30

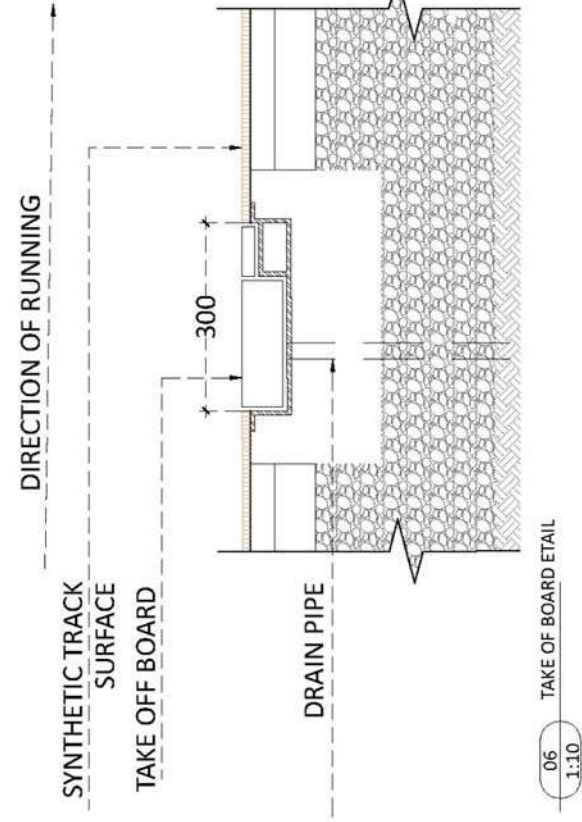
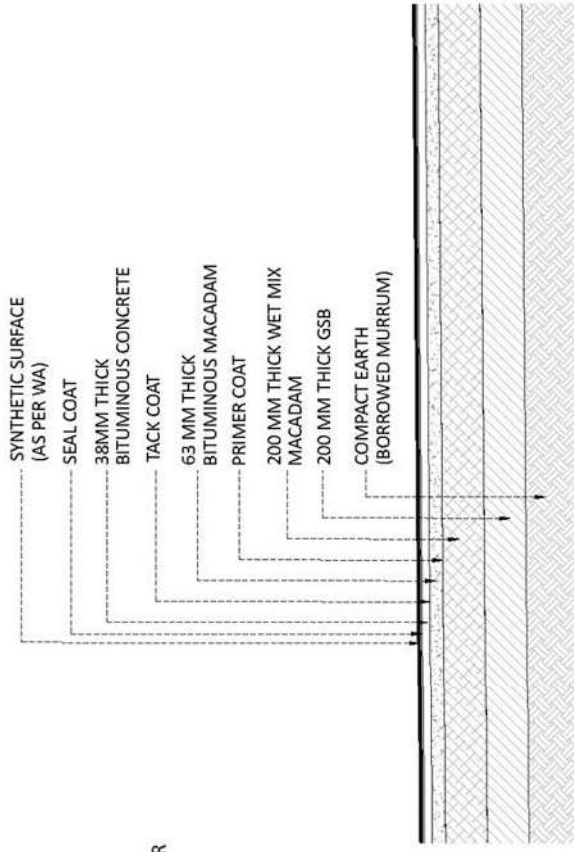
**NOTE:**  
ALL CONCRETE RECEIVING TRACK &  
FIELD SYNTHETIC SURFACING MUST  
HAVE A VAPOR BARRIER BETWEEN THE  
CONCRETE & AGGREGATE SUBBASE



01 STEEPLE CHASE CROSS SECTION  
1:50



02 STEEPLE CHASE- PLAN  
1:50



07 TYPICAL SYNTHETIC TRACK SURFACE SECTION  
1:30

**NOTE:**  
ALL CONCRETE RECEIVING TRACK & FIELD SYNTHETIC SURFACING MUST HAVE A VAPOR BARRIER BETWEEN THE CONCRETE & AGGREGATE SUBBASE

ATHLETIC TRACK & FIELD - SHEET 3 OF 3









**INDIAN INSTITUTE OF SCIENCE EDUCATION AND  
RESEARCH (IISER) TIRUPATI**

**Volume III**

**Financial Bid (for Item Rate Tender)**

	Tender Inviting Authority: The Registrar, IISER Tirupati				
	Name of Work: Construction of 400m 8-lane synthetic athletic track as per world athletic standards with associated Sports Tracks and Football ground at IISER Tirupati, Yerpedu under Khelo India scheme				
	Contract No: IISERT/ENGG/2025-26/01		Date: 04/07/2025		
Bidder Name:					
S. No	Description of facility	Quantity	Unit	Rate	Amount in Rs
1	Providing architectural, structural, Geotechnical, Plumbing, and electrical designing services by developing the preliminary tender drawings into working drawings and issue of Good for construction drawings, structural designing of the structure complete as architectural and structural designing scope of work specified in special conditions of contract complete as per directions of Engineer in charge. including submission of 3 sets of A0 size drawings to the department	1.00	LS		
2	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
2.1	All kinds of soil	19200.00	sqm		
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
3.1	All kinds of soil.	684.00	cum		
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	6400.00	cum		

5	Supplying and stacking of good earth (good red earth suitable for horticulture work) at site including royalty and carriage with all leads and lifts complete (earth measured in stacks will be reduced by 20% for payment.) Note:- Contractor has to supply the earth from his own source / any other source and nothing extra shall be paid.	11000.00	cum		
6	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
6.1	All kinds of soil	19200.00	sqm		
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
7.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	50.00	cum		
7.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	230.00	cum		
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
8.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	240.00	cum		
9	Centering and shuttering including strutting, propping etc. and removal of form for				
9.1	Foundations, footings, bases of columns, etc. for mass concrete	260.00	sqm		
9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	2300.00	sqm		

10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
10.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	19200.00	kg		
11	Consolidation of subgrade with Paver road roller of 8 to 12 tonne capacity in layer thickness not exceeding 20cm including making good the undulation, dressing to camber as per the drawing for football field, etc., with earth or quarry spoils etc., and rerolling the subgrade including watering etc., all completed as per direction of Engineer-in-charge	57600.00	sqm		
12	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
12.1	On W.B.M. @ 0.75 Kg / sqm	8000.00	sqm		
12.2	On bituminous surface @ 0.50 Kg / sqm	8000.00	sqm		
13	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
13.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	400.00	cum		

14	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
14.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	320.00	cum		
15	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	1500.00	sqm		
16	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	33.00	cum		
17	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
17.1	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm ) having CBR Value-20	1200.00	cum		

18	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	1200.00	cum		
19	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc. i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge	240.00	sqm		
20	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete:				
20.1	300 mm dia. R.C.C. pipe	500.00	metre		
21	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m: All				
21.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	500.00	metre		

22	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
22.1	M.S. tube	7000.00	kg		
23	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
23.1	Two or more coats on new work	1650.00	sqm		
24	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-Charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	1800.00	sqm		
25	Supplying chemical emulsion in sealed containers including delivery as specified				
25.1	Chlorpyriphos emulsifiable concentrate of 20%	4800.00	litre		
26	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment of soil using chemical emulsion @ 5 lit/sqm entire ground surface area				
26.1	With Chlorpyriphos E.C. 20% with 1% concentration	19200.00	sqm		
27	Supplying Gramoxone Herbicide (Syngenta India Ltd or equivalent) contains 24% w/w of the active ingredient paraquat dichloride in sealed containers including delivery as specified. (Paraquat dichloride is a bipyridilium herbicide that works by disrupting the electron transport chain in plants).	16.00	litre		

28	Weedicide treatment of lawn/ playfield area through Gramoxone Herbicide (Syngenta India Ltd or equivalent) contains 24% w/w of the active ingredient paraquat dichloride (Paraquat dichloride is a bipyridilium herbicide. one litre Gramoxone Herbicide diluted in 499 litres water and applying solution @ 1.00 litre solution per sqm lawn or bed area. (two application) (cost of chemical paid separately) and as per direction of officer-in-charge	8000.00	sqm		
29	Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	500.00	Cum		
30	Supply and application of Vermicompost of approved quality at site of work as per direction of the officer-in-charge	20.00	50 kg Bag		
31	Supply and application of insecticide (Phorate, phorosan or equivalent) of approved quality at site of work as per direction of the Engineer-in-charge.	50.00	kg		
32	Supply of Chemical fertilizer.				
32.1	N:P:K - 19:19:19 or 15:15:15 Or 20:10:10	2.00	qtl		
33	Flooding the ground with water including making kiaries and dismantling the same.	8000.00	sqm		
34	Fine dressing of the ground	8000.00	sqm		
35	Providing & laying Selection no.1 doob/Bermuda grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller make the surface smoothen and light watering the same and maintenance for 30 days or more till the grass establish properly, with camber and finishing as required for football ground as per direction of the officer in charge	8000.00	sqm		



36	Marking of football ground as per FIFA standards, the cost includes all, materials, labours, tools, tackles, nothing extra shall be paid	1.00	LS		
37	Supplying, filling, spreading & levelling gravels of size range 5 mm to 15 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	324.00	cum		
38	Supplying, filling, spreading & levelling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in charge.	750.00	cum		
39	Providing, laying & jointing in position Double Wall Corrugated ( DWC ) perforated HDPE pipes conforming to IS 16098 (Part 2): 3013 Structured-Wall plastics piping systems for Non-Pressure drainage and sewerage and suitable for the respective working pressures (SN8) with simple push fit joints with Elastomeric sealing Ring for online system or with extra couplers, accessories e.g. couplings, tees, bends, reducers, flanged tail pieces etc. jointing as per manufacturers' instruction excluding trenching and refilling etc. : External work (End caps, T or Y Joints and couplers paid separately) NOTE: All joints in the drains and connections between the laterals and main drains shall be made using purpose-made or otherwise approved sealed junctions of appropriate size.				
29.1	100mm dia.	900.00	metre		
40	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement: 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design:				
40.1	With common burnt clay F.P.S. (non-modular) bricks of class designation 5.0	4.00	each		
41	<b>SPRINKLER SYSTEM</b>				

41.1	Supply, Installation and Commissioning of Sprinkler system for the football ground including supply and laying appropriate sized and designed HDPE pipes from pump room/ nearby tapping location to the entire network of football ground. The item also includes necessary number of pop up sprinklers of approved makes, all types of valves, specials, boxes, etc. to make the system complete and integrating the same with the existing pump system and automation of the same. and providing a filtration unit. The item also includes all necessary cables, wires, motors, starters etc. The work shall be carried out based on the design submitted and approved	1.00	LS		
42	Supply and Installation of Movable <b>Goal Posts</b> with required ground sleeve. Made with branded high-quality MS Steel Pipe in 4" Dia of Branded Epoxy Paint with Rust & Corrosion Free and Zero Vibration the Size: 24 Feet x 8 Feet (7.32 mt Long and 2.44 mt Hight, Back Support of 1.5". The Poles Comprise wheels which make it easy to move. with Goal Nets High Rigidity Material 4.5 mm machine knitted the colour.	2.00	Each		
43	Supply and Installation of <b>Corner Flag Posts</b> made of 25 mm pvc post require round sleeve. with non-pointed top, unbreakable , flexible base , high signal optics,1.5 m height and 25 mm diameter Including Compulsory and optional flags as per the FIFA standards requirements and guidelines.	1.00	Set		
44	<b>SYNTHETIC TRACK WORK</b> Providing and laying 8 lanes synthetic athletic track of sandwich system with the product certified by World Athletics (WA) of minimum 15mm thick to achieve class 2 WA certification including marking as per WA standard and specification of all the sports event under Class 2 certification. The cost includes obtaining certification of the facility from WA for class 2 category and the associated charges towards testing, documentation, etc. Nothing extra shall be paid				
44.1	Normal Stress Areas with a minimum thickness of 15mm of finished track surface.	7800.00	sqm		
44.2	High stress areas with a minimum thickness of 20mm to 25 mm of finished track surface	200.00	sqm		

45	Construction of sand filling in jumping pits, including cost and conveyance of all materials and labour charges to the site to fill the sand in pit and complete finished items as per drawing as directed by Engineer in charge.	2.00	Nos		
46	Construction of Steeplecase pit inside North D portion as per WA drawing and specification and as directed by Engineer-in-charge.	1.00	Nos		
47	Supply and installation of WA certified Pole-vault boxes as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	2.00	Nos		
48	Supply and installation of WA certified Covers for pole-vault including synthetic top as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	2.00	Nos		
49	Supply and installation of WA certified Take off tray as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	8.00	Nos		
50	Supply and installation of WA certified Take off wooden board as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	8.00	Nos		
51	Supply and installation of WA certified Dummy board with synthetic top as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	8.00	Nos		
52	Supply and installation of WA certified Hammer cum Discuss Ring with cage as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	1.00	Nos		
53	Supply and installation of WA certified Short put rings with toe board as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	1.00	Nos		

54	Supply and installation of WA certified Discuss rings as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	1.00	Nos		
55	Supply and installation of WA certified Aluminium Kerbing as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	1.00	Nos		
56	Supply and installation of WA certified steeple chase hurdle as per WA specification, including all fixing charges, accessories, tools, tackles, etc. as directed by the engineer in charge	1.00	Nos		
	<b>Total Rs.</b>				
	<b><u>PRICE SCHEDULE</u></b> <b>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only) Quoted Rate is inclusive of GST as applicable.</b>				