



आरोग्यम् परमं सुखम्

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR

अखिल भारतीय आयुर्विज्ञान संस्थान, देवघर

INSTITUTE OF NATIONAL IMPORTANCE UNDER MINISTRY OF HEALTH AND FAMILY WELFARE

(स्वास्थ्य और परिवार कल्याण मंत्रालय के अंतर्गत राष्ट्रीय महत्व की संस्थान)

Devipur, Deoghar (Jharkhand)-814152

Notice inviting Tender

For the work of

02 NO. Badminton Court near type 4 & 5 Building at AIIMS Deoghar

Ref. No.	:	9/EE/ AIIMS/Deo /2024-25
Publishing Date	:	28-03-2025 on 04:00PM
Bid Submission Start Date	:	28-03-2025 on 04:00PM
Last Date of Bid Submission	:	16-04-2025 on 03:00PM
Bid Opening	:	17-04-2025 on 03:00PM

Address:

All India Institute of Medical Sciences, Deoghar

Devipur, Deoghar: 814152, Jharkhand

Email: engineering@aiimsdeoghar.edu.in

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Name of Work: 02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar

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Certified that this bid document contains pages 1 to 65 (One to sixty-five pages).

Executive Engineer (Civil)
AIIMS, Deoghar

**Tender document may be downloaded from CPPP site <https://eprocure.gov.in>
NIT may be downloaded from institute's website www.aiimsdeoghar.edu.in**

AIIMS, Deoghar

NOTICE INVITING TENDER

The Executive Engineer (Civil), AIIMS Deoghar on behalf of the Executive Director, AIIMS Deoghar invites Percentage rate e-tenders for the enlisted contractor in the appropriate classes and category in CPWD, MES, Railway and Any state government Department having an experience of the similar works from any government (state or central or any autonomous body of the central government) for the following work: -

NIT No. : **9/EE/ AIIMS/Deo /2024-25**

Name of Work: **02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar**

Estimated Cost: **Rs. 8,45,959.00** Earnest money: **Rs 17,000**

Period of completion: **90 Days**

Last date & time of submission of bids: **16-04-2025 up to 03:00PM**

The tender forms and other details can be seen and downloaded from the website www.aiimsdeoghar.edu.in or CPPP site <http://eprocure.gov.in>

**INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING
FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

The Executive Engineer (Civil), AIIMS Deoghar on behalf of the Executive Director, AIIMS Deoghar invites an Percentage rate e-tenders for the enlisted contractor in the appropriate classes and category in CPWD, MES, and state government having an experience of the similar works from any government (state or central or any autonomous body of the central government) for the following work:

Name of work & Location	Estimated cost put to bid	Earnest Money	Period of Completion	Last date & time of submission of bid	Time & date of opening of bid	Date and time of submission of EMD in hard form to Executive Engineer office
02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar	Rs. 8,45,959	17,000	90 Days	16-04-2025 on 03:00PM	17-04-2025 on 03:00PM	Agency can Submit EMD in hard copy in a sealed envelope with clearly mentioning the Tender Id No. on or before last date and time of submission of bid. Delay in the post or courier will be treated as disqualified.

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed 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 www.aiimsdeoghar.edu.in or <https://eprocure.gov.in>
- Those contractors not registered on the website <https://eprocure.gov.in> are requested to get registered beforehand.
- The intending bidder must have valid class-III digital signature to submit the bid.
- On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- Contractor can upload documents in the form of PDF format only.
- The contractor should quote the rate of item including GST as per statutory rules.
- The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within Ten (10) days from the date of award of this tender in his favour and also required to furnish the 5 % against performance guarantee of contract value in the form of FD from any Nationalized/ Schedule bank duly pledged in favour of AIIMS, Deoghar & payable at Deoghar only. If the successful bidder fails to furnish the full Performance guarantee within 10 (Ten) days after the issue of Letter of Acceptance of Work, action will be taken as per bid declaration form, unless time extension has been granted by AIIMS, Deoghar.
- The bid shall be valid and open for acceptance by the competent authority of AIIMS Deoghar for a period of 180 (One Eighty) days from the date of opening of the Financial bid and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. If any

bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, Further the bidders shall not be allowed to participate in the re-bidding process of the work & action shall be taken as per undertaking furnished.

11. Contractor shall deposit earnest money in fixed deposit receipt of schedule bank and submit in original upto one day after last date of submission of bid.
12. The EMD in form of FDR/DD shall be submitted in favor of AIIMS Deoghar.
13. List of Self attested Documents to be scanned and uploaded in CPP portal at AIIMS Deoghar within the period of bid submission, failing which the bid of the tender shall be rejected:
 - I. Scanned copy of EMD in form of FDR/DD.
 - II. Affidavit (on Rs.100 non judicial stamp with notarized) regarding establishment of proprietorship firm / registered partnership deed / letter of incorporation for private ltd / ltd firm with written power of attorney (in case of bidder is owner, not required) of the authorized signatory.
 - III. Copy of work completion certificate for similar works as per eligibility criteria. Completion certificate issued by Competent Authority will only be considered. Competent Authority means officer of not below the rank of Executive Engineer/ Equivalent would be acceptable
 - IV. Proof of deposit of tender fee/EMD. For tender fee exemption, NSIC/MSE certificate comprising relevant category of work should be uploaded.
 - V. Copy of registration certificate with CPWD, railway, Any State Government department, MES, as mentioned in NIT.
 - VI. Notarized undertaking on Rs. 100 non judicial stamp paper as per NIT.
 - VII. The turnover certificate issued by the Chartered Accountant having valid UDIN number for the last 3 years. The average turnover in last 3 years should be 50% percent of the tendered amount.
 - VIII. The valid solvency certificate of minimum 40% of the tendered amount issued by any nationalized bank under the governed by RBI. Valid solvency certificate should not more than six months old.
 - IX. GST,
 - X. PAN,
 - XI. Submit undertaking certificate i. e Your Firm/company not Blacklisted From any Government organization.
14. Due to Scarcity of funds payments may get delayed. No interest shall be paid to contractor due to delay in payment.
15. Contract/Bidder have to submit EMD in hard copy in a sealed envelope with clearly mentioning the Tender Id No. on or before the last date and time of submission of bid. Delay in the post or courier may be treated as disqualified.
16. Additional Performance Security may be applicable in case of bidder quoted the abnormal below rate which is decided by the competent authority. The abnormal below rate may also be decided by the competent authority and their decision may be final. Bidder/Contractor has also to submit the market rate analysis to carry out the work. Non-submission of the Additional performance guarantee in a stipulated time shall be treated as disqualified from the contract and bidder/contractor may also be debarred for the three years in further participation in any bid of any department AIIMS.

Govt. of India
AIIMS, Deoghar
Notice Inviting e-Tender

The Executive Engineer (Civil), AIIMS Deoghar on behalf of the Executive Director, AIIMS Deoghar invites Percentage rate e-tenders from enlisted contractor in the appropriate classes and category in CPWD, MES, and state government for the work “

- 1.1 The work is estimated to Cost **Rs 8,45,959** this estimate, however, is given merely as a rough guide.
- 1.2 Intending tenderer is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below: -

Criteria of eligibility for submission of bid documents

1.2.1 Criteria of eligibility for the Experience

Experience of having successfully completed similar works during the last seven years ending last day of month previous to the one in which tenders are invited.

- (a) Three similar completed works each costing not less than 40% of the estimated cost put to tender,
or
- (b) Two similar completed works each costing not less than 60% of the estimated cost put to tender,
or
- (c) One similar completed work costing not less than 80% of the estimated cost put to tender.

Similar works means Civil work/ Civil maintenance/Badminton Court Construction

1.2.2. Certificate of Registration for GST and acknowledgement of up to date filed return.

1.2.3. Certificate of work experience issued by the Government department/PSU. (As specified in Clause 1.2.1 of CPWD-6)

1.2.4. Valid enlistment certificate of Government department mentioned in the NIT.

1.2.5. Scanned copy of EMD in form of FDR/DD have to submit EMD in hard copy in a sealed envelope with clearly mentioning the Tender Id No. on or before the last date and time of submission of bid. Delay in the post or courier may be treated as disqualified.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **90 Days** from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available. The architectural and structural drawing should be provided by the vendor at his own cost and approved from concerned department.
5. The tender document consisting of plans if any, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard

The bid submitted shall be opened on:- **17-04-2025 at 03:00PM**

6. The contractor whose bid is accepted will be required to furnish performance guarantee of 5 (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Fixed Deposit Receipts/DD in favor of AIIMS Deoghar. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period.
7. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his 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 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 done and local conditions and other factors having a bearing on the execution of the work.
8. The competent authority does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
9. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
10. The competent authority reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
11. The contractor shall not be permitted to tender for works in AIIMS Deoghar in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Executive Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in AIIMS Deoghar. Any breach of this condition by the contractor would render him liable to reject his Bid submitted by him.
12. This notice inviting Bid shall form a part of the contract document. The successful bidder /contractor, on acceptance of his tender by the Accepting Authority shall within 10 days from the stipulated date of start of the work, sign the contract consisting of: -
 - a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender.
 - b) Standard C.P.W.D. Form 7 or General condition of contract for C.P.W.D Maintenance work 2020 with up to date correction slips.
13. The valid solvency certificate of Last Six Month minimum 40% of the tendered amount issued by any nationalized bank under the governed by RBI in last six month.
14. The turnover certificate issued by the Chartered Accountant having valid UDIN number of the last 3 years. The average turnover in last 3 years should be 50% percent of the tendered amount.
15. Completion certificate issued by Competent Authority will only be considered. Competent Authority means officer of not below the rank of Executive Engineer/ Equivalent would be acceptable.

17. Notarized copy of the registered partnership deed.

18. Valid Registration certificate of enlistment of contractor in the appropriate category in appropriate class as mentioned in above first para.

INTEGRITY PACT

To,

Sub: **02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar**
(9/EE/ AIIMS / Deo /2024-25)

Dear Sir,

It is here by declared that AIIMS Deoghar 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 of the bidder 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 AIIMS Deoghar.

Yours faithfully,

Executive Engineer(Civil)
AIIMS Deoghar

To,

The Executive Engineer (Civil),
AIIMS Deoghar,

Sub: Submission of Tender for the work of **02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar**

Dear Sir,

I / We acknowledge that AIIMS Deoghar 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 AIIMS Deoghar. 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, AIIMS Deoghar 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 same signatory competent / authorised to sign the relevant contract on behalf of the Executive Director AIIMS Deoghar.

INTEGRITY AGREEMENT

This Integrity Agreement is made at..... on this..... day of.....2024

BETWEEN

AIIMS Deoghar represented through the Executive Director.....
(Name of Division)

AIIMS Deoghar....., (Hereinafter referred as the
(Address of Division)

'Principal / Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

Through..... (Name and Address of the Individual/firm/Company)
..... (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)
Here in after 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) commit 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) / Contract(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 (with each tender as per Performa enclosed) 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 willful 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) **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 Indian Penal code (IPC)/Prevention of Corruption 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.

Article 4: Previous Transgression

- 1) 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.
- 2) 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/ holding listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) 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 Sub- contractors /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, Executive Director, AIIMS Deoghar.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** 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** there of shall not be subject to arbitration.

Article 8:- Submission

Additional Performance Security may be applicable in case of bidder quoted the abnormal below rate which is decided by the competent authority. The abnormal below rate may also be decided by the competent authority and their decision may be final. Bidder/Contractor has also to submit the market rate analysis to carry out the work. Non-submission of the Additional performance guarantee in a stipulated time shall be treated as disqualified from the contract and bidder/contractor may also be debarred for the three years in further participation in any bid of any department AIIMS.

Article 9- 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 / Contract 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: -

अनुसूचियां **SCHEDULES**
[FOR MAJOR (CIVIL) COMPONENT]

अनुसूची 'क' **SCHEDULE 'A'**
मात्राओं की अनुसूची (संलग्न)

Schedule of quantities (Enclosed)

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अनुसूची 'ख' **SCHEDULE 'B'**
ठेकेदार की निर्गत की जाने वाली सामग्रियों की अनुसूची
Schedule of materials to be issued to the contractor.

क्रम सं. S.No.	मद विवरण Description of item	मात्रा Quantity	जिस दर पर सामग्रियां ठेकेदार को प्रभारित होगी वह दर अंकों एवं शब्दों में Rates in figures & words at which the material will be charged to the contractor	निर्गत स्थान Place of Issue
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1	2	3	4	5
 				

अनुसूची 'ग' **SCHEDULE 'C'**

ठेकेदार को भाड़े पर दिए जाने वाले औजार एवं संयंत्र

Tools and plants to be hired to the contractor

क्रम सं. Sl. No.	विवरण Description	भाड़ा प्रभार प्रतिदिन Hire charges per day	निर्गत स्थान Place of Issue
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1	2	3	4
 			

अनुसूची 'घ' **SCHEDULE 'D'**

कार्य के लिए विशेष अपेक्षाएं/दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची

Extra schedule for specific requirements/documents for the work, if any.

-----Nil-----

अनुसूची (ड) SCHEDULE 'E'

ढेके की सामान्य शर्तों का संदर्भ

General conditions of contract for CPWD works 2023 (maintenance work) as amended upto date.

1. Reference to General Conditions of contract

Name of work: **02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar**

कार्य की अनुमानित लागत Estimated cost of work

: ₹ 13,16,899.00

(i) धरोहर राशि Earnest money

: **Rs 27,000.00 in form of FDR from scheduled bank.**

(ii) निष्पादन गारंटी Performance guarantee :

5% of Tendered amount. निविदित मूल्य का 05 प्रतिशत

(iii) प्रतिभूति निक्षेप: Security Deposit:

2.5% of tendered amount

अनुसूची 'च' SCHEDULE 'F'

सामान्य नियम एवं दिशानिर्देश:

General Rules & Directions:

CPWD General Specification for Civil including latest amendments.

निविदा आमंत्रण करने वाला प्राधिकारी

Officer inviting tender -

Executive Engineer, AIIMS Deoghar

कार्य की मर्दों की मात्रा के लिए अधिकतम प्रतिशत जिससे अधिक निष्पादित मर्दों के लिए दरों का निर्धारण खण्ड 12.2 और 12.3 के निम्नानुसार अनुसार होगा

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.

see below

Definitions:

2(v) भारसाधक इंजीनियर

Engineer-in-Charge

Executive Engineer, AIIMS Deoghar

2(viii) स्वीकार कर्ता प्राधिकारी

Accepting Authority

Executive Engineer, AIIMS Deoghar

2(x) अतिरिक्त और लाभों को पूरा करने के

लिए श्रम एवं सामग्रियों की लागत पर प्रतिशतता

Percentage on cost of materials and labour to cover all overheads and profits.

15% (Fifteen per cent)

2(xi) दरों की मानक अनुसूची

Standard schedule of Rates for Civil: -

Delhi Schedule of rate 2023(Civil)/Market Rate issued upto date of receipt of tender.

2(xii) विभाग

Department

Engineering, AIIMS Deoghar

9(ii) मानक के.लो.नि.वि. ठेका फॉर्म

Standard CPWD contract Form

CPWD form 7 GCC

2023 Maintenance work with up to date correction slip.

खण्ड Clause 1	स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुतीकरण के लिए अनुमत समय Time allowed for submission of performance guarantee from the date of issue of letter of acceptance	: 10 days
;पपद्ध	(उपर्युक्त प) में दी गई अवधि के पश्चात् अधिकतम अनुमेय एक्सटेंशन Maximum allowable extension with late fee @ 0.10% per day of performance guarantee amount beyond the period as provided in (i) above	: 1 to 07 days
खण्ड Clause 2	खण्ड 2 के तहत प्रतिकार निश्चित करने वाला प्राधिकारी Authority for fixing compensation under clause 2	Executive Director, AIIMS Deoghar
खण्ड Clause 2A	क्या खण्ड 2 क लागू होगा Whether clause 2A shall be applicable	No
खण्ड Clause 5	कार्य आरंभ की तारीख की गणना के लिए स्वीकृति पत्र के जारी होने की तारीख से दिनों की संख्या No. of days from the date of issue of letter of acceptance for reckoning date of start	10 days.
लक्ष्य	नीचे दी गई सारणी के अनुसार	
<u>Milestone(s): -</u>		NA
	कार्य निष्पादित करने के लिए अनुमत समय Time allowed for execution of work Authority to decide (i) Extension of Time (ii) Rescheduling of mile stones	90 (Ninety) Days Executive Engineer, AIIMS Deoghar Executive Engineer, AIIMS Deoghar.
(iii) Shifting of date of start in case of delay in handing over of site		Executive Engineer , AIIMS Deoghar
खण्ड Clause 7	अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य 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	NA
खण्ड 10 d Clause10A	कार्यस्थल प्रयोगशाला में ठेकेदार द्वारा उपलब्ध कराये जाने परीक्षण उपकरण की सूची List of testing equipment to be provided by the contractor at site lab.	N.A.
खण्ड Clause10B(ii)	क्या खण्ड 10 ख ;पपद्ध लागू होगा Whether clause 10B (ii) shall be applicable	NA
खण्ड Clause10C		

Component of labour expressed as
Percent of value of work

NA

खण्ड Clause 10CC - NOT APPLICABLE.

<p>खण्ड 10 गग उन सविदाओं पर लागू होगा जिसमें कार्य समापन की अवधि, अपने कालम में दर्शाई गई अवधि से अधिक अनुबंधित है। Clause 10CC to be applicable in case of DELETE with stipulated period of compensation exceeding the period shown in next column : Months</p>

खण्ड Clause 10d

Yes

खण्ड Clause 11

कार्य निष्पादन के लिए अनुपालन
Specifications to be followed for execution of work

For Civil : CPWD specification 2019, Volume-I & II
with correction slips upto date of receipt of tender.

खण्ड Clause 12

Applicable

12.2 & 12.3

विचलन सीमा जिसके परे खण्ड 12.2 तथा 12.3 भवन निर्माण कार्य के लिए लागू होंगे
Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work (Other than foundation)

100%

12.5

(i) Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except earth work)

100%

(ii) Deviation limit for items in earth work subhead of DSR or related items

100%

खण्ड Clause 16

घटी हुई दर निर्धारित करने की लिए सक्षम प्राधिकारी
Competent Authority for deciding reduced rates

Executive Engineer(Civil),
AIIMS Deoghar

खण्ड Clause 18

कार्यस्थल पर ठेकेदार द्वारा लगाये जाने वाली अनिवार्य मशीनरी औजार एवं सयंत्रों की सूची :-
List of mandatory machines, tools and plants to be deployed by the contractor at site.

N.A.

खण्ड Clause 25

Constitution of dispute redressed committee (DRC) Applicable

NA

खण्ड Clause 32

खण्ड Clause 38

I) क) सीमेंट और बिटुमन की अनुमानमूल मात्रा निर्धारित करने के लिए अनुसूची / विवरण

केलोनवि द्वारा मुद्रित दिल्ली दर अनुसूची 2023 के आधार पर

I) (a) Schedule/statement for determining theoretical quantity of cement & bitumen issued up to date of receipt of tender.

On the basis of Delhi Schedule of Rates 2023 printed by C.P.W.D. with correction slips

II) अनुमानमूलक मात्राओं में अनुमत विचलन
Variations permissible on theoretical quantities.

Yes

II) अनुमानमूलक मात्राओं में अनुमत विचलन
Variations permissible on theoretical quantities.

Yes

d½	सीमेन्ट जिन कार्यों के लिए निविदा में अनुमानित मूल्य रु. 5 लाख से अधिक न हो	
a)	Cement for works with estimated cost put to tender not more than Rs. 5 lakhs	Not Applicable
	जिन कार्यों के लिए निविदामें अनुमानित मूल्य रु. 5 लाख से अधिक हो	2 प्रतिशत जमा/घटा
	for works with estimated cost put to tender more than Rs. 5 lakhs	2 % plus/minus.
ख।)	बिटुमन सभी कार्यों के लिए	2.5 प्रतिशत केवल जमा और घटा के पक्ष में शून्य
b)	Bitumen for all works	2.5% plus only & Nil on minus side.
ग)	इस्पात प्रत्येक व्यास, कोट और श्रेणी के लिए पुनर्वलन और संरचनात्मक इस्पात काट	2 प्रतिशत जमा/घटा
c)	Steel Reinforcement and structural steel sections for each diameter, section and category.	2% plus/minus
घ)	सभी अन्य सामग्रियां	शून्य
d)	All other materials	Nil.

अनुमत्य विचलन से अधिक की मात्राओं के लिए वसूली दर

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

क्रम सं. SI No.	मद विवरण Description of item	अंको और शब्दों में वह दर जिस पर ठेकेदार से वसूली की जाएगी Rates in figures and words at which recovery shall be made from the Contractor
		अनुमत्य विचलन से अधिक आधिक्य Excess beyond permissible variation
		अनुमत्य विचलन से अधिक उपयोग घटाया Less use beyond the permissible variation
1.	सीमेन्ट Cement	N.A. Rs. 6210/- Per MT
2.	ईस्पात Steel Reinforcement	N.A. Rs. 53099/- Per M.T.

निविदा TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents 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 within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for One Eighty (180) days from the due date of opening of financial bid and not to make any modification in its terms and conditions.

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 AIIMS Deoghar, then I/We shall be debarred for tendering in AIIMS Deoghar 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.

मैं/हम एतद्द्वारा घोषणा करते हैं कि मैं/हम निविदा कागजातों, नक्शों और कार्य से संबंधित अन्य अभिलेखों को गुप्त/गोपनीय कागजात के रूप में रखेंगे और उनसे प्राप्त/ली गई जानकारी किसी अन्य को, जिन्हें मैं/हम सूचित करने के लिए प्राधिकृत हों, से भिन्न किसी को, नहीं बताएंगे या जानकारी को किसी ऐसे रूप में प्रयोग नहीं करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

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 therefrom to any person other than a person to whom I/We am/are authorised to communicate the same or use the information in any manner prejudicial to the safety of the State.

तारीख Dated #.....

ठेकेदार के हस्ताक्षर Signature of Contractor#
डाक का पता Postal Address#

साक्षी Witness : #

पता Address: #

उपजीविका Occupation: #

To be filled in by the contractor/witness as applicable

ACCEPTANCE

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the Executive Director, AIIMS Deoghar for a sum of ₹. _____

(Rupees _____)

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

- a)
- b)
- c)

For & on behalf of the Executive Director, AIIMS Deoghar

Signature.....

तारीख Dated

Designation.....

FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated (date) for the construction of (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at (hereinafter called "the Bank") are bound unto (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. (Rs. in words) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

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

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;
 - (b) OR
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, OR
 - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor, OR
 - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Executive Director, AIIMS Deoghar either up to the above amount or part thereof upon receipt of first written demand, without the Executive Engineer, AIIMS Deoghar having to substantiate his demand, provided that in his demand the Executive Engineer, AIIMS Deoghar will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date. * after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

PARTICULAR SPECIFICATIONS
&
SPECIAL CONDITIONS

1. GENERAL

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Engineer-in-charge, for which purpose, the contractor shall submit a programme of the work within 15 days from the stipulated date of start of the work.
- 1.3 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.4 Before execution of tendering work contractors must submit the work execution schedule, approved drawing & sample of material.
- 1.5 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
- 1.6 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.
- 1.9 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.
- 1.10 All the material related to the work execution shall be approved by Engineer-In-charge.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the respective

- items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.12 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.
- 1.13 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.14 Only Stainless Steel screws shall be used unless otherwise specified.
- 1.15 **Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.**
- 1.16 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.17 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.18 Contractor shall be able to claim bill only after issuing site clearance certificate from Junior Engineer & Assistant Engineer.
- 1.19 Contractor shall submit all material in store which is to be consumed according to specifications during execution of work. It will be further issued by concerned JE and AE according to daily requirement.
- 1.20 All materials to be used during work shall be got approved from engineer in charge.
- 1.21 All samples of material shall be got approved from engineer in charge before execution of work.
- 1.22 The contractor(s) shall inspect the site of work before tendering and acquaint himself with the site conditions and **no claim on this account** shall be entertained by the department.
- 1.23 The tender shall see the approaches to the site. In case any approach from main road is required at or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 1.24 Contractor shall take all precautionary measures to avoid any damage to adjoining property. **All necessary arrangement shall be made at his own cost.** Any damage caused by the contractor to the contractor to existing building/ installation / roads / boundary walls shall be made good by him (the contractor) at his own cost.
- 1.25 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution board day and night, speed limit, red flags, red lights and proving barriers. He shall be responsible for all damages and accidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic, running of hospital services during the execution of the work.
- 1.26 Royalty at the prevailing rates whenever payable shall have to be paid by the contractor on the boulders, metal, shingle, sand and bajri etc. Or any other material collected by him for the work direct to revenue authorities and **the department shall pay nothing extra for the same.**
- 1.27 The contractor shall provide at his own cost suitable weighing, surveying and levelling and measuring arrangements as may be necessary at site for checking. All such equipment shall be got calibrated in advance from laboratory, approved by the Engineer-In-Charge. **Nothing extra shall be payable on this account.**
- 1.28 Contractor shall provide permanent benchmark, flags tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the level and location, given in the Architectural and plumbing drawings.

- 1.29 Water tanks, taps, sanitary, water supply and drainage pipes, civil fittings and accessories should confirm to byelaws and municipal body / corporation where CPWD specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixture /fittings) tested by municipal Body / Corporation authorities wherever required at his own cost.
- 1.30 The contractor shall give performance test of the entire installations as per the standing specifications before the work is finally accepted and completion certificate is recorded by the Engineer- In -Charge. **Nothing extra whatsoever shall be payable to the contractor for the test.**
- 1.31 Any cement slurry added over base surface for the continuation of concreting for better bond is deemed to have been included in the items and **nothing extra shall be payable on this account, also the cement consumed on this account shall not be considered in theoretical consumption. For RCC work, only factory made round type cover block shall be used.**
- 1.32 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials bought to site.
- 1.33 The work shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time, by the Engineer-In-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the and satisfy himself that the information available there from is complete and unambiguous.
The discrepancy, if any, shall be brought to the notice of the Engineer-In-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of the work on the basis of any erroneous and or incomplete information.
- 1.34 All materials obtained from Govt. stores or otherwise shall be got checked by the Engineer-In-Charge or his any authorized supervisory staff on receipt of the same at site before use.
- 1.35 All material shall only be brought at site as per programme finalized with the Engineer-In-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- 1.36 The architectural drawings given in the tender other than those indicated in nomenclature of the items are only indicative of the nature of the work and materials / fixtures involved unless otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duty approved by the Engineer-In -Charge. Architectural drawings are available in the office of Engineer-In-Charge and can be seen.
- 1.37 Normally contractors shall not be allowed to work at night. Work at night shall, however, be allowed if the site conditions / circumstances at night, **no claim on this account shall be entertained. In such situations the contractor shall make available to the department proper means of transport such as vehicle at his own cost.**
- 1.38 Existing drains, cables, pipes, over-head wires, sewer lines and similar services encountered in the course of execution of work shall be protected against the damage by the contractor's own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In no case such services should be stopped to the existing buildings.
- 1.39 The contractor shall be responsible for the watch and ward/ guard of the buildings, safety of all fitting and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. **No extra payment shall be made on this account.**

- 1.40 The day to day receipt and issue accounts of different / brands of cement shall be maintained separately in the standard Performa by the Jr. Engineer of work and which shall be duly signed by the contractor or his authorized representative.
- 1.41 The contractor shall be fully responsible for the safe custody of materials brought by him issued to even though the materials are under double lock key system.
- 1.42 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and clearance of the same before use in the work. Any predelivery of the materials not required for immediate consumption shall not be resorted to. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work.
- 1.43 No payment shall be made to the contractor for any damage caused by rain, floods, earthquake or any other natural causes whatsoever during execution of work. The contractor at his own cost will make the damages to the work good and no claim on this account shall be entertained.
- 1.44 For construction works which are likely to generate malba / rubbish to the tune of more than a truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and **wastes at his own cost** to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.
- 1.45 Any damage done by the contractor to any existing work or work being executed by other agencies shall be made good by him at his own cost.
- 1.46 On the account of security consideration, there would be some restrictions, on the working hours, movement of vehicle for transportation of material and location of labour camp. The contractor shall be bound to follow all such restrictions and adjust the programme for execution of work.
- 1.47 The contractor shall also be required to follow the rules & restrictions imposed on working / movement/ stacking of materials by the local competent authority at all times. Nothing extra shall be payable on this account.
- 1.48 In case, there is any discrepancy between English version and corresponding Hindi version, if provided, then the provisions in English version will prevail.
- 1.49 The contractor will have to work as per schedule given by the Engineer-In-Charge.
- 1.50 The contractor shall remove all splashes from doors, windows and floors etc. if the contractor fails to remove the same 10% of gross value of the bills would be kept in deposit from each bill simultaneously.
- 1.51 The contractor submits the authenticated copies of itemized bills of the material which has to be entered in the M.A.S. Register viz steel, Cement, Bitumen, Paint water proofing material or any other item suggested by the technical sanction authority before settling payment.
- 1.52 The contractor shall pump the concrete wherever necessary to expedite the progress of work. **Nothing extra shall be paid on this account.**
- 1.53 Sample of building material, fitting and other articles required for execution of work shall be got approved from the Engineer-In-Charge before use in the work. The quantity of samples brought by the contractor shall be judge by standards laid down in the relevant BIS specification.
- 1.54 All material 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 preserve till the completion of 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 items of work, the contractor shall submit the samples as per suggestive list of brand name given in the tender document /particular specifications for approval of Engineer-In-Charge. For all other items, materials and fitting carrying BIS mark shall be used with approval of Engineer-In-Charge. Wherever BIS marked material / fittings are not available, the contractor shall submit samples of material/fittings manufactured by firm of repute conforming to relevant specification or IS codes and use the same only after getting the approval of Engineer-

In-Charge. To avoid delay, contractor should submit samples as stated above well in advance so as to give timely order for procurement. 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 and cost.

- 1.55 The contractor shall ensure quality construction in a planned and time in 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.
- 1.56 BIS marked items (except cement and steel) required on the work shall be got tested. Only important tests shall be carried out. The frequency of such tests shall be 25% of the frequency specified in the CPWD specifications 2019 Vol. I to II with up to date correction slips. for certain items, if the frequency of test is not mentioned in CPWD specifications then relevant IS code shall be followed and tests shall be carried out @25% of frequency specified therein.
- 1.57 BIS marked materials except otherwise specified shall be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and /or the work done.
- 1.58 Sample for testing –The contractor shall provide samples of materials required for testing free of charge. The cost of test shall be borne by the contractor / department in the manner indicate below:
 -
 - (a) By the contractor, if the results show that the material does not conform to relevant specifications.
 - (b) By the department, if the result shows that the material conforms to relevant specifications.
All other expenditure required to be incurred for talking samples, conveyance, packing etc. shall be borne by the contractor himself.
- 1.59 However, if any load testing or special testing is to be done for concrete whose strength is doubtful, the cost of the same shall be borne by the contractor.
- 1.60 All necessary tests as per the NIT/CPWD specifications/ relevant BIS codes shall be carried out on all the materials whether ISI marked or otherwise. Wherever NIT/CPWD specifications/relevant BIS Codes do not specify the frequency of tests, the same shall be carried out as per the directions of the engineer –in-charge. Nothing extra whatsoever shall be payable on this account.
- 1.61 The contractor shall ensure quality control measures on different aspects of construction methodologies to be adopted.
- 1.62 Lists of approved makes and brand of materials for civil works and sanitary works are annexed hereto. Makes and brands of materials specified therein shall only be used on the work. The contractor shall submit brand/ make of various materials to be used for the approval of Engineer-In-Charge along with samples.
- 1.63 **All material shall be brought as per programme finalized with the Engineer-In-Charge. Any pre delivery of the material, not required for immediate consumption shall not be accepted and thus not paid for.**
- 1.64 Samples including brand/quality of materials and fitting to be used in the work shall be got approved from the Engineer-In-Charge, well in advance of actual execution and shall be preserved till the completion of the work.
- 1.65 The rates for all items of work shall, unless clearly specified otherwise, include cost of all labor, material, tools, and plants and other inputs involved in the execution of the items and **nothing extra shall be payable on this account.**

- 1.66 The contractor shall quote all-inclusive rates against the items in the schedule of quantities and **nothing extra shall be payable for any of the conditions and specifications** mentioned in the tender document unless specially specified otherwise.
- 1.67 Unless otherwise specified in the schedule of quantities, the rates for all items, shall be considered as inclusive of pumping / bailing out water wherever necessary for which **no extra payment shall be made.**
- 1.68 The rate for all items, in which the use of cement is involved, is inclusive of charges for curing.
- 1.69 The foundation trenches shall be kept free from water work below ground level are in progress.
- 1.70 The contractor shall indemnify the Govt. against any claims or obligation rising out of any damage to adjacent property, structure or to building work done by him.
- 1.71 In case service are encountered during excavation /earth work and such services are required to be shifted, the contractor is bound to carry out the shifting operation as per guidance/ instructions and with the approval of the Engineer-In-Charge. However, necessary payments shall be made in this regard as per provision of the agreement.
- 1.72 Many other agencies would be executing work simultaneously at site. The contractor shall maintain proper co-ordination with other agencies in maintaining progress of work. In case of any dispute, the decision of the Engineer-In-Charge shall be final and binding.
- 1.73 LABOUR CESS @ 1% OF THE GROSS VALUE OF THE WORK DONE WIL BE DEDUCTED FROM EACH RUNNING & FINAL BIL AS PER GOVT. NOTIFICATION.
- 1.74 RECOVERY FOR WATER & ELECTRICITY @ 1% OF THE GROSS VALUE OF WORK OR AS PER ACTUAL COMSUMPTION DONE SHALL BE MADE FROM THE BILL.
- 1.75 **THE CONTRACTOR COMPLIES WITH THE INSTRUCTION CONTAINED TO DPCC OREDER FOLLOWS:-**
- (a) The dismantle material /building rubbish received from dismantling/demolishing shall be dumped to the dumping ground in properly covered truck with precaution.
- 1.76 The agency has to deposit 50% of paint material before the start of work at site calculated as per theoretical consumption calculated.
- 1.77 The work shall be carried out strictly in accordance with CPWD specifications as amended upto date and as per instructions of the Engineer-in-Charge, including as below and nothing will be paid extra.
- 1.78 All materials to be used on this work by the contractor shall be got approved from the Engineer-in-Charge and department.
- 1.79 The poor workmanship will not be accepted and defects shall be rectified at contractor's cost of the satisfaction of the Engineer-in-Charge. The Program of works are to be coordinated in accordance with the building work and no claim for idle Labor will stipulated in the tender.
- 1.80 All the debris of the works should be removed and the contractor should clear the site immediately after the accruing of debris. Similarly, the contractor should immediately clear off any rejected material from the site.
- 1.81 The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.

- 1.82 The Institute shall not pay separately Central/State sales tax/VAT/Contract tax/Excise duty/GST etc. The rates tendered should be inclusive all taxes and duties. Deduction of contract tax at source shall be made while releasing payment through running/final bills as applicable. A certificate specifying the rate and amount of deduction shall however be issued.
- 1.83 The entire installation shall be at the risk and responsibility of the contractor until the handover.
- 1.84 Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.
- 1.85 All system must have third party certification of the product if required.
- 1.86 Any type of License/NOC/Approval from Government/Local Body is will be in the scope of Vendor.
- 1.87 Any type of Inspection of Internal/External Authority will be done by Vendor.
- 1.88 Storage and custody of material will be in scope of Vendor.
- 1.89 Site clearance will be in the scope of vendor after completion of work.
- 1.90 Conditional bids would be summarily rejected.
- 1.91 T&P: The AIIMS will not issue any T&P for execution of the work.
- 1.92 All necessary work/spare/tool/any type item required for completeness of work will be in scope of vendor and nothing will be paid extra by AIIMS.
- 1.93 The Contractor should submit details of the terms and conditions of the personnel deployed by him at AIIMS. The contractor shall also ensure the police verification of each person deployed by him at AIIMS. The contractor shall also submit copies of the appointment letters of the personnel deployed at AIIMS, at the time of commencement of the contract or whenever change/replacement of any person (s) takes place during the period of the contract. AIIMS may ask to furnish the details of personnel deployed by the contractor at any time during the period of contract.
- 1.94 Vendor will submit drawing and take approval of Engineer-in-charge before execution of work.
- 1.95 Contractor is advised to inspect the site carefully before quoting the rates. The contractor shall be deemed to have satisfied himself to the nature & extent of work at site & no claim for extra payment/or time extension will be allowed on the ground the was not conversant with condition providing at the site.The rate shall

be inclusive of all taxes, accessories, machining & labor,

1. Performance bank guarantee:

Upon acceptance of Tender, the successful Bidder is required to deposit an amount equivalent to 5% or as per the guidelines of the contract value as Performance Bank Guarantee. The Performance bank guarantee should be furnished within 15 days from the date of Letter of acceptance to the contractor. Performance bank guarantee may be furnished in the following forms:

-
- a) Bank Guarantee from Scheduled Banks/Public Financial Institutions as defined in the Companies Act. In the form of FDR only.
- b) The Bank Guarantee shall not carry any interest.
- c) The Performance Bank Guarantees should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the contractor including warranty obligations and the same shall be kept valid by proper renewal till the acceptance of Final Bills of the Contractor, by AIIMS and same will be release after sixty days of Successful completion of work and satisfaction of Engineer-in-charge.
- d) It is the responsibility of the bidder to get the Bank Guarantees revalidated/extended for the required period as may be advised by AIIMS. AIIMS shall not be liable for issue of any reminders on expiry of the Bank Guarantees.
- e) In case the Bank Guarantees are not extended before the expiry date, AIIMS reserves the right to invoke the same by informing the concerned Bank in writing, without any advance notice/communication to the concerned bidder/contractor.
- f) The Original Bank Guarantee may be sent directly by the Bank to AIIMS under Registered Post (Acknowledgement Due), addressed to the Executive Engineer(Civil), AIIMS, Deoghar -814152.
- g) AIIMS reserves the right of forfeiture of Security Deposit in addition to other claims and penalties in the event of the Contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contracts with AIIMS.

2. Liquidated damage: - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver any consignment within the period prescribed for such delivery in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited.

3. Security Deposit:-

Security Deposit 2.5 % of tendered value will deduct by the AIIMS Deoghar, the following shall be complied with:

- a) Security deposit will be deducted from running bill/Final bill of the contractor.

4. Return of Security Deposit:-

Security Deposit will be released to the Contractor after deducting all expenses/other amounts due to AIIMS, penalty amount if any, after defect liability/warranty/guarantee/ validation period of the contract and as per CPWD works manual.

5. Payment Terms:-

70% against supply of material

20% against Installation

10% against Testing and commissioning & Successful handover of facility

Payment will be made as per terms and conditions of tender document. However, it may depend on availability of funds. It can be delay due to scarcity of funds.

6. Defect liability period/warranty period will be for one year after successful handing over of facility as whole

Dismantling i.e. site clearance& shifting the debris from work place to specified place at site etc.

1.96 Shut Downs: No routine shut down shall be permitted during office hours. The contractor shall be at liberty to carry out work on holidays and after office hours but with prior permission of AIIMS.

1.97 AIIMS will not be responsible for any lapse on the part of the Contract or in enforcing of provision

1.98 So fany Labour Acts/Laws,viz., Payment of Wages Act, Minimum Wages Act, Contract Labour(Regulation& Abolition) Act, 1970 and (Central) Rules, 1971 / Industrial Disputes Act, 1947 and (Central) Rules1957, Employee's State Insurance Act, 1948 (ESI), Employee's Provident Funds and Miscellaneous Provisions Act, 1952 EPF), Gratuity, Workmen Compensation Act, Bonus Act, etc. It will be the contractor's responsibility to abide by all Statutory Laws/Regulations applicable to the contract Labour engaged by him on the Contract Work. Receipt to fany complaints on this ground viewed seriously. It is expressly understood that the manpower deployed by the contractor are not on the rolls of AIIMS and no legal relationship of what so ever subsists between AIIMS and such personnel employed by the contractor.

1.99 The personnel engaged by the contractor and deployed by him at AIIMS premises will be in no way be deemed as working under employment of AIIMS and there shall not exist any employer-employee relationship between AIIMS and the contractor or his personnel deployed by him. The Contractor or personnel shall have nothing to do with AIIMS either in respect of wages/salary or such other statutory benefits or compensation etc. under the Labour Laws and other related Laws i.e. Gratuity, Bonus or Workmen Compensation Act or any other law in force.The contractor shall obtain an appropriate/adequate Policy i.e. Contractor All Risks(CAR) Policy so as to meet any obligation in any eventuality. The Contractor will be responsible for providing benefits like ESI, PF, Bonus, Group Insurance Scheme etc. under the relevant rules/laws of the State and Central Government. The Contractor shall be solely liable for any dispute that might arise in any matter in future for

violation/non-compliance of Labour Laws/regulations and AIIMS will have no responsibility, whatsoever.

- 1.100 The employee of the contractor will ensure strict discipline and behavior and diligent performance of their duties most be fitting to the décor of the most modern mechanized building and the employees of the contractor shall not in any manner cause any interference, annoyance, nuisance etc. to AIIMS staff or its business or working and will be liable for immediately replacing/relocating the individual employee if the services rendered by him are not found to be satisfactory.
- 1.101 In case of any damage to AIIMS's property/premises for which contractor is accountable, the contractor will be liable to pay the compensation to AIIMS as may be advised by AIIMS. The contractor shall also take full responsibility and compensate AIIMS for any loss/damage/break-down caused to the installation due to negligence of his workers.
- 1.102 AIIMS will not be responsible for any accident/injury/death caused to the employees provided by the contractor at site. It will be the responsibility of the contractor to abide with the all the provisions of the Workmen Compensation Act, 1923 and no compensation, whatsoever shall be paid by AIIMS in this regard.
- 1.103 Integrity Pact(IP) shall be applicable for all tenders/contracts as indicated in tender document. This integrity pact shall be issued as part of the Tender documents and shall be submitted by the bidder along with Technical bid duly filled, signed and stamped by the authorized signatory who signs the bid. Only those vendors / bidders who have entered into such an IP with AIIMS shall be considered qualified to participate in the bidding. Entering into this pact shall be a preliminary qualification.
- 1.104 Technical bids submitted by the bidder will be opened first and evaluated for fulfilling the Pre-qualification criteria and other conditions in NIT/Tender documents, based on documentary evidences submitted along with the offer.
- 1.105 AIIMS will not take any type of responsibility for the item to be supplied by the vendor before successful commissioning and handover.

2.0 CONDITION FOR CEMENT: -

2.1 The Contractor shall procure 43 grade Ordinary Portland cement (conforming to IS : 8112) or Portland slag cement (conforming to IS : 455) or Portland Pozzolana Cement (PPC) (Fly ash based) – conforming to IS : 1489 (Part-I) as required in the work, from reputed manufactures of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tons per annum.

The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacture(s) which the contractor proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufactures, given by the tenderer, fully or partially.

Supply of cement shall be taken in 50 Kg bags bearing manufacture's name, batch No. & ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-charge and got issue in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

If Portland Pozzolana cement or Portland slag cement is used, suitable modification in deshuttering time etc. shall be done if need be as per specifications and standards and as directed by Engineer – in – charge and nothing extra shall be payable on this account.

No extra payment / deduction shall be made from the payment to the contractor for using any of the above type of cement.

2.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer - in - charge.

2.3 For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General conditions of contract for CPWD works 2020 with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-charge or his authorized representative and that of other lock with the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.

2.4 The cement shall be got tested by Engineer –in –charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor / Department in the manner indicated below: -

- (a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.
- (b) By the Department, if the results show that the cement conforms to relevant BIS codes.

2.4.1 All other charges of sampling, packing and transportation of sample shall also be borne by the contractors.

2.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained separately for each type of cement, as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at Schedule A to F (CPWD-7), without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be. In case of excess consumption, no adjustment shall be made.

(i) Cement brought to site and cement remaining unused after completion of work shall not be removed from site without return permission of the Engineer-in-charge.

(ii) Damaged cement shall be removed from the site immediately by the contractor on receipt of notice in written. In case if he does not do within three days or receipt of same notice, the Engineer-in-charge shall get removed at the site of the contractor.

2.6 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

3.0 CONDITIONS FOR REINFORCEMENT STEEL: -

3.1 The contractor shall procure TMT bars of ~~Fe 415 / Fe 415D / Fe 500 / Fe 500D / Fe 550 / Fe 550D~~ grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tonnes per annum and above.

In case of non-availability of steel from primary producers, use of TMT reinforcement bars procured from secondary producers will be allowed subject to fulfillment of following conditions:

a. The grade of the steel such as ~~Fe 415 / Fe 415D / Fe 500 / Fe 500D / Fe 550 / Fe 550D~~ or other grade to be procured is to be specified as per BIS: 1786 - 2008.

b. The secondary producers must have valid BIS license to produce HSD bars conforming to IS 1786: 2008. In addition to BIS license, the secondary producer must have valid license from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.

c. The TMT bars procured from primary producers and ISPs shall conform to manufacture's specifications.

d. The TMT bars procured from secondary producers shall conform to the specifications as laid down by Tempcore, Thermex, Evcon, Turbo and Turboquench as the case may be.

e. TMT bars procured either from primary producers or secondary producers, the specifications shall meet the provisions of IS 1786: 2008 pertaining to ~~Fe 415 / Fe 415D / Fe 500 / Fe 500D / Fe 550 / Fe 550D~~ or other grade of steel as specified in the tender.

3.2 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para (c) & (d) above, the same

shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.

In case contractor is permitted to use TMT reinforcement bars procured from secondary producers then:

(i) The base price of TMT reinforcement bars as stipulated under schedule 'F' shall be reduced by Rs. 6700/- MT. However, for operation of provisions of clause 10CA in such case, the indices for TMT reinforcement bars of secondary producers will be considered same as for primary producers.

(ii) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs. 8.00 per kg.

- 3.3 The steel reinforcement bars shall be brought at site in bulk supply of 25 tonnes or more as decided by the Engineer in charge.
- 3.4 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 3.5 For checking nominal mass tensile strength bend test re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

Dia of bar	For consignment below 100tonnes	For consignment above 100tonnes
Under 10 mm	One sample for each 25 tonnes or part thereof	One sample for each 40tonnes or part thereof
10 mm to 16mm	One sample for each 35 tonnes or part thereof	One sample for each 45tonnes or part thereof
Over 16mm	One sample for each 45 tonnes or part thereof	One sample for each 50tonnes or part thereof

- 3.6 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 3.7 All other charges of sampling, packing and transportation of sample shall also be borne by the Contractor.
- 3.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 3.9 Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 3.9(i) Reinforcement including authorized spacer bars and lap pages shall be measured in length for different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.

(ii) The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in revised CPWD specifications 2009 Vol. I will be considered for conversion of length of various sizes of TMT bars in to standard weight.

(iii) Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.

(a) If the derived weight as in sub-para (iii) above is less than the standard weight as in sub-para (ii) above, then the Derived Actual Weight shall be taken for payment.

(b) If the derived actual weight is found more than the standard weight, than standard weight as worked out in sub para (ii) above shall be taken for payment. Nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.

The contractor has to obtain vouchers and furnish test certificate to the Engineer-in-charge in respect of all the lots of Steel brought by him from approved suppliers at the site of work.

3.10 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the changeover shall be permitted only from any one level onwards. In case of foundations, all foundation elements (footings and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the changeover is taking place should have the same kind of steel as those in columns.

3.11 The reinforcing steel brought to site of work shall be stored on brick / timber platform of 30 / 40 - cm height, nothing extra shall be paid on this account.

4.0 SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site: -

- (i) The work site shall be properly barricaded.
- (ii) Adequate signage's indicating 'Work in Progress – Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work – platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

5.0 SPECIFICATIONS FOR FLY ASH BRICKS - All fly ash bricks as brought to the site shall conform to the strength & durability parameters as prescribed in the tender and CPWD specifications.

6.0 The contractor shall submit 'Method Statement' for the approval soon after the award of work. 'Method Statement' is a statement by which the construction procedures for important activities of construction are stated, checked and approved. Method Statement shall have description of the item with elaborate procedures in steps to implement the same. The specification of the materials involved their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurements etc.

6.1 Formwork for exposed concrete surfaces: -

6.1.1 Where it is specifically shown on the drawings to have original fair face finish of concrete surface without any rendering of plastering, formwork shall be carried put by using plywood on steel plates of approved quality.

6.1.2 The forms shall be constructed so as to produce a uniform and consistent texture and pattern on the face of the concrete. The formwork shall be placed so that all horizontals are constructed of lumber and are not paneled and the formwork joints shall be staggered.

6.1.3 To achieve a finish which shall be free of board marks, the formwork shall be faced with plywood or equivalent material in large sheets. The sheets shall be arranged in an approved pattern. Whenever possible, joints between sheets shall be arranged to coincide with architectural feature, sills, window heads or change in direction of surface. All joints between panels shall be vertical or horizontal unless otherwise directed. Suitable joints shall be approved between sheets. The joints shall be arranged and fitted so that no blemish or mark is imparted to the finished surfaces.

6.1.4 Forms for exposed concrete surfaces shall be constructed with grade strips (the underside of which indicate top of pour) at horizontal constructions joints, unless the use of groove strips is specified on the drawings. The reset forms shall be tightened against the concrete so that the forms will not be spread and permit abrupt irregularities or loss of mortar. Supplementary form ties shall be used as necessary to hold the reset forms tight against the concrete.

6.1.5 For fair faced concrete, the position of through bolts will be restricted and generally as indicated on the drawings.

6.1.6 Plywood and steel plates used in the formwork for obtaining exposed surfaces shall be got approved from Engineer-in-charge on each use. However, no forms will be allowed for reuse if it is doubtful to produce desired texture of exposed concrete.

6.1.7 Cement of only approved shade shall be used preferably of single lot to achieve integrity of texture.

6.2 Class of Surface Finish: -

6.2.1 For Beams & Slabs:

The finish shall be uniform, dense and smooth. no grout, no grain pattern, no crazing and no major blemishes shall be permitted. Abrupt irregularities not exceeding 3mm and gradual irregularities less than 5mm in 2m length only shall be permitted.

6.2.2 For Columns/Wall/Fins:

The finish shall be uniform and smooth leveling the surface of the compacted concrete shall be done with a screed board with power floating the surface and over that steel trowelling the surface under firm pressure characteristics of finish shall be brush marks < 3mm gradual irregularities less than 10mm in 2m.

6.3 Tolerance in Finished Concrete: -

The formwork shall be so made as to produce a finished concrete true to shape, lines, level, plumb and dimensions as shown in the drawings subject to the following tolerance unless otherwise specified in this specification or drawings.

6.4 WALL/COLUMN/FINS:

21.4.1 Variation from the plumb $\pm 6\text{mm}$ Upto 3m height

21.4.2 Variation from the plumb of conspicuous liner $\pm 6\text{mm}$ Upto 6m height

21.4.3 Variation in the size of wall openings (+)15mm
(-) 6mm

21.4.4 Variation in parapet wall thickness

(a) Upto 30cm thickness $\pm 6\text{mm}$

6.5 SLAB, BEAM & GIRDER FORMS:

21.5.1 Variation from the level or from the specified grid for beam soffit before removal of shores,

(a) In any 3m $\pm 6\text{mm}$

(b) In any 6m $\pm 10\text{mm}$

All the tolerances mentioned above shall apply to concrete dimensions only, and not to positioning of vertical steel or dowels. The tolerances given above are specified for local aberration in the finished concrete surface and should not be taken as tolerance for the entire structure taken as whole for the setting and alignment of formwork. Any error, within the above tolerance limits, or any other if noticed in any of the structure after part or portion stripping of forms, shall be corrected in the subsequent work to bring back the structure to its true line, level and alignment.

Executive Engineer (Civil),

AIIMS Deoghar

ADDITIONAL CONDITIONS OF CONTRACTS

1. The contractor shall keep proper upkeep of all areas under the contract.
2. Thorough checking of employees of the contractor during entry/exit would be done by security Staff of AIIMS.
3. Rejection of Tender and Other Conditions:
 - a) AIIMS reserves the right to accept or reject the tenders without assigning any reason whatsoever.
 - b) Conditional tenders, unsolicited tenders, tenders which are incomplete or not in the form specified or defective or have been materially altered or not in accordance with the tender conditions, specifications etc., are liable to be rejected.
 - c) Tenders are liable to be rejected in case of unsatisfactory performance of the bidder with AIIMS or bidder who do not comply with the latest guidelines of Ministry/Commissions of Govt. of India. AIIMS reserves the right to reject a bidder in case it is observed that they are overloaded and may not be in position to execute this job as per the required schedule. The decision of AIIMS will be final in the regard.
 - d) If a bidder who is a proprietor expires after the submission of his tender or after the acceptance of his tender, AIIMS may at their discretion, cancel such tender. If a partner of a firm expires after the submission of tender or after the acceptance of the tender, AIIMS may then cancel such tender at their discretion, unless the firm retains its character.
 - e) AIIMS will not be bound by any Power of Attorney granted by changes in the composition of the firm made subsequent to execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
 - f) If the bidder gives wrong information in his tender, AIIMS reserves the right to reject such tender at any stage or to cancel the contract if awarded and forfeit the Earnest Money/Security Deposit/any other money due.
 - g) Canvassing in any form in connection with the tenders submitted by the Bidder shall make his offer liable to rejection.
 - h) In case the proprietor, Partner or Executive director of the Company/Firm submitting the Tender, has any relative or relation employed in AIIMS, the authority inviting the Tender shall be informed of the fact as per specified format as per relevant annexure attached along with the offer.
 - i) The successful bidder should not sub-contract part or complete work detailed in the tender specification undertaken by him.

j) The Tender submitted by a techno commercially qualified bidder shall become the property of AIIMS who shall be under no obligation to return the same to the bidder. However, unopened financial bids and late tenders shall be returned to the bidders.

k) AIIMS shall not be liable for any expenses incurred by the bidder in the preparation of the tender irrespective of whether the tender is accepted or not.

4. Cancellation of Contract in Full or in Part:

AIIMS at its sole discretion can terminate the contract at any time during the period of contract, If the Contractor:

a) At any time makes defaults in proceeding with the works with due negligence and continues to do so even after a notice in writing from the AIIMS, Deoghar .; or

b) Commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within 15 days after a notice in writing is given to him in that behalf by the AIIMS, Deoghar.; or

- c) Fails to yearly performance evaluation of the service provider/contractor by AIIMS or third party inspection report or both ;or
- d) Violates any of the terms and conditions stipulated in the agreement/tender document.
5. Law Governing the Contract and Court Jurisdiction:
The contract shall be governed by the law for the time being in force in India. The civil court having original civil jurisdiction at deoghar shall have an exclusive jurisdiction in regard to all claims in respect of the Contract. No other civil court shall have jurisdiction in case of any dispute, under this contract.
6. Use of Office Space: No space belonging to AIIMS shall be occupied by the contractor without written permission of AIIMS.
7. Sample Demonstration: The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all accessories etc.
8. Risk & Responsibility till handover: The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However, if there is any delay from the Page 24 of 31 department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-in-Charge which shall be binding on the contractor.
9. Site Inspection: Before submission of offer, the bidders must inspect the sites and be well acquainted themselves with the actual the scope of works and other prevalent conditions, facilities available, position of material and Labour, means of transport and access to Site, accommodation, etc. No claim will be entertained later on the grounds of lack of knowledge of any of these conditions.
10. Rights of AIIMS, **Deoghar**:
a) AIIMS reserves the following rights in respect of this contract during the original contract period or its extensions if any, as per the provisions of the contract, without entitling the contract or for any compensation.

b) To terminate the contract or get any part of the work done through other agency or deploy AIIMS's own/hired/otherwise arranged resources, at the risk and cost of the contract or after due notice period of two weeks by AIIMS in the event of:
(i) Contractor's continued poor progress
(ii) Withdrawal from or abandonment of the work before completion of the work
(iii) Contractor's inability to progress the work for completion as stipulated in the contract
(iv) Poor quality work

- (v) Corrupt act of Contractor
- (vi) Insolvency of the Contractor
- (vii) Persistent disregard to the instructions of AIIMS
- (viii) Assignment, transfer, sub-letting of contract without AIIMS's written permission
- (ix) Non fulfillment of any contractual obligations
- (x) In the opinion of AIIMS, the contractor is overloaded and is not in a position to execute the job as per required schedule.

c) To effect recovery from any amounts due to the contract or under this or any contractor in any other forms, the moneys AIIMS is statutorily forced to pay to anybody, due to contractor's failure to fulfill any of his obligations. AIIMS shall levy overheads of 5% on all such payments or as per the GCC & SCC of agreement.

11. Responsibilities of the contractor in respect of local laws, employment of works etc.

The contractor shall fully indemnify AIIMS against any claims of whatsoever nature arising due to the failure of the contractor in discharging any of his responsibilities. The following are the responsibilities of the contractor in respect of observance of local laws, employment of personnel, payment of taxes etc.:

- a) The contractor at all times during the continuance of this contract shall, in all his dealings with local Labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.
- b) The contractor shall comply with all applicable State and Central Laws, Statutory Rules, Regulations etc. such as Payment of Wages Act, Minimum Wages Act, Workmen Compensation Act, Employer's Liability Act, Industrial Dispute Act, Employers Provident Act, Employees State Insurance Scheme, Contract Labour (Regulation and Abolition) Act 1970, Payment of Bonus & Gratuity Act and other Acts, Rules and Regulations for Labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at Site. The Contractor shall also give to the local Governing Body, Police and other relevant Authorities all such notices as may be required by the Law.
- c) The Contractor shall pay all taxes, fees, license charges, deposits, tolls, royalties, commission or other charges which may be liable on account of his operations in executing the contract.
- d) Contactor shall be responsible for provision of Health and Sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act), Safety precautions etc. as may be required for safe and satisfactory execution of contract.
- e) The Contractor shall be responsible for proper accommodation including adequate medical facilities for personnel employed by him.
- f) The Contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused, it is responsibility

of the contractor to make good the losses or compensate for the same.

g) The Contractor shall arrange, coordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.

h) All safety rules and codes applied by the AIIMS at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guards, slings etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards. Due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of Clerical staff, watch and ward, store keepers to take care of equipment/materials and construction tools and tackles shall be posted at site by the contractor till the completion of work under this contract.

i) The contractor shall arrange for such safety devices as are necessary for such type of work and carry out requisite site tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices.

j) Contractor has to ensure the implementation of Health, Safety and Environment (HSE) requirements as per directions given by AIIMS/Customer. The contractor has to assist in HSE audit by AIIMS/Customer and submit compliance Report. The contractor has to generate and submit record/reports as per HSE plan/activities as per instruction of AIIMS/Customer.

k) The contractor will be directly responsible for payment of wages to his workmen. A payroll sheet given all the payments given to the workers and duly signed by the contractor's representative should be furnished to AIIMS site for record purpose, if so called for.

l) In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of AIIMS.

12. Insurance

- a) It is the sole responsibility of the contractor to insure his materials, equipment's, workmen, etc. against accidents and injury while at work and to pay compensation, if any, to workmen as per Workmen's compensation Act. The work be carried out in protected area and all the rules and regulations of the AIIMS in the area of project which are in force from time To time will have to be followed by the contractor.
- b) If due to negligence and or non-observation of safety and other precautions by the contractors, any accident/injury occurs to the property/manpower belong to third party, the contractor shall have to pay necessary compensation and other expense, if so by the appropriate authorities.
- c) The contractor will take necessary precautions and due care to protect the material, while in his custody from any damage/loss due to theft or otherwise till the same is taken over by AIIMS or customer. The contractor will submit necessary documents for lodging/processing of insurance claim. AIIMS will recover the loss from the contractor, in case the damage/loss is due to carelessness / negligence on the part of the contractor. In case of any theft of

material under contractor's custody, matter shall be reported to police by the contractor immediately and copy of FIR and subsequently police investigation report shall be submitted to AIIMS for taking up with insurance. However this will not relieve the contractor of his contractual obligation for the material in his custody. Vendor responsible to complete assignment as per term and condition NIT subsequently agreement assigned with AIIMS.

13) Force Majeure

The following shall amount to Force Majeure:

- a) Acts of God, act of any Government, War, Sabotage, Riots, Civil commotion, Police action, Revolution, flood, Fire, Cyclones, Earth quake and Epidemic and other similar causes over which the contractor has no control.
- b) If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by force majeure as defined above, the agreed time of completion of the job covered by this contractor the obligations of the contractor shall be extended by a period of time equal to period of delay, provided that on the occurrence of any such contingency, the contractor immediately reports to AIIMS in writing the causes of delay and the contractor shall not be eligible for any compensation.

14) General Conditions of the Contract(GCC) of CPWD with Upto Dated amendment, Tender form and Special Conditions of the Contract(SCC), additional conditions of contract and NIT will form the part of the contract.

15) The General Conditions of the Contract (GCC) of CPWD can be seen and downloaded from CPWD website and given below link:-
https://cpwd.gov.in/Publication/GCC_construction_Works_2020.pdf
respective amended are attached at page no17.

16) All Annexure are to be submitted with the bids duly signed.

TENDER ACCEPTANCE LETTER
(To be give non Company Letter Head)

Date:

To

Executive Engineer (Civil),
AIIMS Deoghar

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No:

Name of Tender/Work: **02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar**

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above-mentioned 'Tender/Work' from the web site(s) namely: www.aiimsDeoghar.edu.in as per advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents of all pages (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by department/ organization too has also been taken into consideration, while submitting this acceptance letter.
4. I/We here by unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality/entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking/Private organization.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit /Security deposit or both absolutely.

Date:
Place:

Signature of authorized person
Full Name & Designation:
Company's Seal

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER
(To be typed submitted in the letter Head of the Company/firm of Bidder)

To,
Executive Engineer (Civil),
AIIMS Deoghar

Dear Sir,

Sub: Declaration by Authorized Signatory
Ref: i) NIT/Title of the work. Name of Tender No.....,
ii) All other pertinent issues till date

I/We hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, condition, stipulations and other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorized to represent on behalf of my company/firm for the above-mentioned tender and a valid Power of Attorney/Authorization letter to this effect is also enclosed.

Yours faithfully,

(Signature, Date & Seal of
Authorized Signatory of the Bidder)

Date:

Enclosed: Power of Attorney/Authorization letter

DECLARATION CONFIRMING KNOWLEDGE ABOUT SITE CONDITIONS
(To be typed submitted in the letter Head of the Company/firm of Bidder)

To,
Executive Engineer (Civil),
AIIMS Deoghar

Dear Sir,

Sub: Declaration confirming knowledge about Site conditions
Ref: i) NIT/Tender No ,
ii) All other pertinent issues till date

I/We hereby declare and confirm that we have visited the site as referred in AIIMS Tender Specifications and acquired full knowledge and information about the site conditions including Wage structure, Industrial Climate, the Law & Order and other conditions prevalent at and around the site. We further confirm that the above information is true and correct and we shall not raise any claim of any nature due to lack of knowledge of Site conditions.

I/We, hereby offer to carry out works as detailed in above-mentioned Tender Specification, in accordance with Terms & Conditions thereof.

Yours faithfully,

(Signature, Date & Seal of
Authorized Representative of the
Bidder)

Date
Place

NO DEVIATION CERTIFICATE
(To be typed submitted in the letter Head of the Company/firm of Bidder)

To,
Executive Engineer (Civil),
AIIMS Deoghar

Dear Sir,

Sub: No deviation certificate
Ref: i) NIT/Tender No ,
ii) All other pertinent issues till date

We here by confirm that we have not changed/modified/materially altered any of the tender documents as downloaded from the website/issued by AIIMS and incase of such observance at any stage, it shall be treated as null and void and this tender shall deemed to be withdrawn.

We also here by confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred NIT/Tender Specification.

We further confirm our unqualified acceptance to all Terms and conditions, unqualified compliance to Tender Conditions, Integrity Pact (if applicable) and acceptance to Reverse bidding process.

We confirm to have submitted offer in accordance with tender instructions and as per afore said reference.

Thanking you,

Yours faithfully,

(Signature, Date & Seal of Authorized
Signatory of the Bidder)

DECLARATION

(TO BE TYPED ON NON-JUDICIAL STAMP PAPER OF RS.10/-)

To,
Executive Engineer (Civil),
AIIMS Deoghar

Ref: 1) NIT/Tender No.

Dear Sir,

1. We have carefully read and understood all the terms and conditions of the tender and here by convey our acceptance to the same.
2. The information / documents furnished along with the above offer are true and authentic to the best of my knowledge and belief. We are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of our tender/Order at any stage besides liabilities towards prosecution under appropriate law.
3. We are agree to bear penalty imposed upon us due to non performance or deficiencies or delay in work or poor workmanship in the services on our part.
4. We have no objection, if enquiries are made about the work listed by us.
5. We have not been under suspension/termination/banned/blacklisted in the preceding 2years, till last date of submission of bid, by any PSU/Govt. Departments/PSU Banks/AIIMS or any other organization where we have worked. Further, if any of the partners/Executive directors of our organization/firm is black listed or having any criminal case against them, our bid/offer shall not be considered. At any later point of time, if this information is found to be false, AIIMS may terminate the assigned contract immediately.
6. We have not been found guilty by a court of law in India for fraud, dishonesty or moral turpitude.
7. We agree that the decision of AIIMS in selection of Bidders will be final and binding to us.

Date:
Place:

Signature of
authorized person
Full Name &
Designation
Company's Seal

1. The above declaration, duly signed and sealed by the authorized signatory of the company, should be closed with Technical Bid.
2. The filling of this declaration is mandatory while submitting the tender documents failing which the tender will be rejected outrightly.

Check List

S.no.	Information for bidder	Remarks	Refer page no. of submitted bid
1	Duly signed with company seal on each Page of Notice Inviting Tender (& its corrigendum if any)	Yes/No	
2	Earnest Money Deposited	Yes/No	
3	Whether three similar works each of value not less than 40% of the estimated cost put to the tender OR Two similar works each of value not less than 60% of the estimated cost put to Tender OR One similar works each of value not less than 80% of the estimated cost put to Tender with completion certificate along with purchase/work order (details provided)	Yes/No	
4	Acceptance of Tender Condition (read and duly signed)	Yes/No	
5	General Conditions of Contract (read and duly signed)	Yes/No	
6	Proforma of Schedules (read and duly signed)	Yes/No	
7	Copy of PAN Card	Yes/No	
8	Annual Financial Turnover should be at least 40% of the estimated cost put to tender and Average financial turnover during the immediate last three consecutive financial years, duly audited And certified by the chartered Accountant	Yes/No	
9	Copy of GST Registration	Yes/No	
10	The bidder should not have incurred any loss(profit after tax should be positive) in more than two years during available last five consecutive balance sheet, duly audited and certified by the chartered accountant	Yes/No	
11	Integrity Pact(duly filled & signed)	Yes/No	
12	Annexure-1(duly filled & signed)	Yes/No	
13	Annexure-2(duly filled & signed)	Yes/No	
14	Annexure-3(duly filled & signed)	Yes/No	
15	Annexure-4(duly filled & signed)	Yes/No	
16	Annexure-5 (duly filled & signed)	Yes/No	
17	Check list filled (duly filled & signed)	Yes/No	

Signature of Bidder(S) with Seal

Other Terms and Conditions

A. In general the scope of works to be performed under this contract shall include but not limited to:-

- Supply, transportation to site, loading, unloading, storage, installation, testing, commissioning, validation and handing over of entire facility at AIIMS Deoghar.
- Effective co-ordination with the other agencies (internal & external) to carry out the work smoothly.

B. PRICE:

- Price shall be inclusive of all taxes & duties whatsoever, excise duty, sales tax, GST service tax, octopi (if any), work contract tax, commissioning spares, labour, tools & plants, packing, freight/ transportation & insurance up to the site, loading, unloading, fee (s) for testing, license, inspection, documents, etc., where applicable. AIIMS Deoghar does not give any confessional forms/ certificates/ permits towards any taxes, duties & other levies like sales tax, customs duty, road taxes/ permits, etc. Prices shall be firm throughout the contract period.

C. NEW MATERIALS

- All equipment, materials used in the work shall be brand new and free from manufacturing defects.

D. REPLACEMENT OF DEFECTIVE/DAMAGED ITEMS

- All defective/damaged items shall be replaced with the good ones without any extra cost as per guarantee clause.

E. TOOLS & TACKLES:

- All the required special tools & tackles for executing this work shall be in the scope of the bidder.

F. QUALITY OF WORK & WORKMANSHIP:

- The quality of work, workmanship, finishing etc. should be satisfactory to the AIIMS Deoghar. No payment shall be made for inferior quality or rejected work.

G. TESTING AND INSPECTION:

- All items to be supplied shall conform to type tests as per the relevant standards. The bidder shall furnish the reports of all tests carried out. These reports should be for the tests conducted on identical/similar components/equipment/systems to those offered/proposed to be supplied under this contract. In case type test reports are not

found to be meeting the specifications/relevant standard requirement then all such tests shall be conducted under this contract by the contract or free of cost to owner and reports shall be submitted for approval. All test shall be carried out in the presence of the inspecting officer from AIIMS Deoghar.

- The decision to inspect/waive shall rest with the AIIMS Deoghar. Item can add/delete/modify the same in the interest of organization/work from time to time considering cost, quantity, significance, completion schedules etc.
- If any equipment/material fails in the tests conducted during inspection, necessary rework/replacement shall be done and equipment shall be re-offered for inspection without any cost to owner.

H. STATUTORY LAWS/RULES/APPROVALS/LICENSE:

- The contractor/agency shall abide by the relevant statutory rules, laws, guide lines, and arrange for the approvals, if any required. That includes adhering to labour laws and rules etc.

I. SITE TESTS/PERFORMANCE TESTS:

Necessary site validation tests/performance shall be conducted to ascertain the functional / design/ site requirements. Reports shall be prepared recording the various values, parameters, observations, settings Made etc. In case of unsatisfactory results, the same shall be replaced/rectified as per the requirement without any extra cost.

J. HANDINGOVER/CERTIFIED DATE OF COMPLETION:

- Up on the satisfactory commissioning of the entire system, the system shall be observed till submission of validation reports. After this satisfactory trial period, the work shall be handed over officially and completion date recorded by Engineer-in-charge with all the necessary formalities for handing over.

Note:-

1. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material, which, in his opinion, is not as per specifications.

The contractor will be responsible for malfunctioning of material supplied by him, it might be due to poor workmanship or due to spare supplied by him or any other reason.

LIST OF APPROVED MAKE

Note :

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.

	MATERIALS:	BRAND/MAKE
1	AAC Block	Aerocon, Siporex, Ultratech, Ecolite, Concretite, J.K. Laxmi (Cement Ltd.), BILTECH, Kansal, Dlite Blocks
2	AAC Block Adhesive	Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star), Ultratech (Fixed-Block)
3	Acrylic Distemper, Emulsion, Synthetic Enamel Paint and Primer.	Asian Paints, ICI Dulux, Berger, Nerolac
4	Epoxy Adhesive	FOSROC, Aquomix , Choksey, BAL-ENDURA,MYK Laticrete
5	Aluminium Composite Panel	Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong
6	Aluminium Extrusions	Hindalco, Indalco, Jindal
7	Aluminum Sections	Jindal, Hindalco, Indalco
8	Annealed Float Glass	Saint Gobain, Modi Guard, Asahi
9	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
10	Calcium Silicate Board / Tiles	Aerolite, Hilux, Starpan
11	CC Pavers / Grass Pavers	Nitco, Hindustan, Ultra, KJS Concrete, Duracrete, Mehtab Tiles, Kaptim
12	Centrifugally Cast Iron Pipe & Fittings	NECO, SKF, BIC, RIF, KAPILANSH, HIF
13	Cement	Lafarge, ACC, Ultratech, Dalmia
14	Ceramic Tiles	Kajaria, Nitco, Orient Bell, Johnson, RAK Ceramics
15	Chequered / Tactile Tiles	Dura, Eurocon, Modern, Hindistan, Johnson, Eavison
16	CI Manhole Cover	BIC, SKF, NICO, Hepco, Kapilansh, RIF
17	CI Double flanged non-return valves	Kirloskar, Sant, Kartar
18	CP fittings	Jaquar, Marc, Kohler, Grohe
19	CPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS
20	Curtain Carrier / Drapery Rod	Marvel, Vista levlor, Johnson.
21	Dash fastener, Expansion Bolt	Hilti, Bosch Fischer
22	Hydraulic Door closer, Floor springs	Dorma, Hettich, Hafele, Geze
23	Ductile Iron Pipe (Water Supply)	Electro steel, Kesso, KDUPL, Electro Spun
24	EPDM Gasket	Hanu, Anand, Lescuyer
25	GRC / Tactile Tile	Unistone, Eurocon, Dazzle
26	Epoxy Grouting Compound	Pidilite, Ferrous Crete(Ferro-102), MYK LATICRETE, Fosrock
27	Epoxy Primer & Paints	Berger, Pidilite, CICO, BASF, SIKA, Fosrock
28	Fire Check door	Navair, Godrej, Shakti
29	Float Glass Mirror	Modifloat, Saint Gobain, Asahi
30	Flush Doors (ISI Mark only)	Century, Kitlam, Archid, Greenply, Marino, Duro, Gujcon
31	Friction Stay	Earl-Bihari, Geze, Hettich, Securistyle
32	Galvanized/Stainless Steel Anchor Fasteners	Shakti, Arrow, Hilti, Fischer
33	GI Pipe & fittings	Tata, Zenith, Jindal, Prakash Surya, Swastik; (ISI Marked only)
34	GI Sheet, chain link mesh & wire	Sail, TATA, Jindal or equivalent
35	Gun Metal Gate Valve	Zoloto, Leader, SANT, Prima
36	Glass Mosaic Tile	Bisazza, Italia, Palladio, Mridul
37	Gypsum Board (False Ceiling)	Boral Gypsum, India Gypsum, St. Gobain
38	Hardener	Hardcrete of Snowcem India, Pidilite, CICO.
39	HDPE Pipes	VECTUS, Emco, Polyfins, Pioneer, Plyfab
40	Jet Assembly for EWC/Health Faucet	Parryware , Jaquar, Marc, PRIMA(ISI)
41	Kitchen loft tank	Sintex, Tirupati Structural Ltd, KMS Plast world P.Ltd. Planet Plastics, Sri Kamakshi Traders, Sreyah Novel InC.
42	Laminate and Veneers	Merino, Greenlam, Kitlam, Duro
43	Locks / Latch	Godrej, Harrison, Dorma, Doorset (ISI)
44	Marine Plywood / BWP Ply	Duro, Century, Greenlam
45	Melamine Polish	Asian Paints, Pidilite, ICI Dulux, Burger
46	Metal False Ceiling	Nitobond, Armstrong, Trac, Durlum, Lafarge, Anutone
47	Mineral Fibre/ GRG Ceiling	Armstrong, Daiken, Anutone, Diamond, Credence
48	M.S. Pipe	Jindal, Tata, RINL, Prakash Surya
49	M.S. Tubes	Tata, Apollo, Prakash Surya
50	Multicoat Synthetic Plaster/ Textured Exterior wall paint	Spectrum, Heritage, Ultratech
51	Plywood, Block Board	Greenply, Century, Duro
52	Polycarbonate Sheet	Danpalon (DPI), Bayer, Macrolux

53	Polysulphide / Silicon Sealent	Pidilite, Fosroc, Tuffseal, Chouksey Chemicals, Perma, BASF
54	POP (Plaster of paris)	JK, Laxmi, Sriram Nirman, Sakarni
55	PPR Pipes	SFMC, SAFE, Poineer Industries
56	Precast CC interlocking Tiles	Hindustan, Paver India, KK
57	Precoatd Profile Sheet	Tata, Bhushan or equivalent
58	Pre-laminated Particle Board	Ecoboard, Action-Tesa, Duro, Century Ply, Greenlam, Albihari
59	Pressed steel door frame	M/s Engineers & Fabricator, Raipur, M/s J.K. Entemprises, Jaipur, M/s Jangid Engineering Works, Jaipur, M/s Swastik Super Industries, Mohali, M/s SKS Steel Industries, New Delhi.
60	PTMT Fittings	Prayag, Polytuf, Pearl, Millennium, PRIMA
61	PVC Cistern	Steelbird, Jindal, Seabird, Prayag, Commander
62	PVC Connection Pipe	Supreme, Prince, Finolax
63	PVC Rain Water Pipe & Fitting	Finolax, Kisan, Kasta, Supreme, Astral, Prince
64	Ready Mix Concrete (RMC)	Lafarge, Alchon, ACC, L&T, Grasim, Ultratech, RMC India
65	Ready Mix plaster	Ultratech, Precisecon Chem, Perma, Ferrous Crete, JK, Fosrock,
66	Reinforcement steel	TATA, SAIL, RINL, Jindal
67	PVC Shutter	Polygreen, Rajshri, Plastogreen, Sintex
68	PVC Water storage Tank (Only ISI)	VECTUS, Water well, Plasto, Polycon, Sintex. (Weight as per ISI)
69	Sluice Valve	Kirloskar, Venus, Kalpana, SANT, KARTAR, Zolto
70	Solid PVC frames and shutters	Polygreen, Rajshri, Plastogreen, Sintex
71	Stainless Steel	Jindal, Salem or equivalent
72	Stainless steel Sink with or without Draining board.	Nirali, Hindware, Frankee, Neelkanth, Jaquar
73	Stainless steel Door/Window fittings & Fixtures	Dorma, Ozone, D-Line, Hettich, Kich, Geze
74	Structural steel section	TATA, SAIL, RINL, Jindal
75	Super plasticizer / admixture	Sika, Fosroc, Chouksey Chemicals, BASF
76	Tensile Fabric	Bluestone, Encon, Structure Flex
77	Tile Adhesive	Ferrous Crete(Ferro-1122), Ardex Endura (Gold Star), PIDILITE (Fevimate XL), WEABR(Saint-Gobin) Sika, Thermoshield, Somany
78	Towel Ring/Towel Rod/Towel Rack	Marc, Jaquar, Kolher, Grohe
79	Tubular steel Window, ventilator, Door frame	M/s Engineers & Fabricator, Raipur, M/s J.K. Enterprises, Jaipur, M/s Swastik Super Industries, Mohali (Punjab) M/s Jangid Engg. Jaipur
80	UPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolax, VECTUS
81	Urinal, Washbasin, Orrisa Pattern W.C., Wall mounted European W.C.Seat with Cistern	Hindware, Parryware, Jaquar, Cera, Kolher, Grohe
82	Vitrified Tile	Johnson -Marbonite, Somany, Kajaria, Orient Bell, NITCO, RAK
83	Wall Putty	JK, BIRLA, SARAPUTTY
84	Waste Pipe	Kamal, Viking, Jaquar
85	Water Proofing Compound (Liquid)	Pidilite, Cico, Impermo
86	White Cement	JK White, Birla White, Grasim
87	Vinyl flooring	Armstrong, Gerffloor, Tarkett
88	Variable Frequency Drive	ABB / Siemens / Fuji / Danfoss
89	AHU/ TFA	Citizen / Zeco / VTS / Flaktwood / Systemair / Edgetech
90	Plug Fan	Nicotra Gebhardt / Kruger/ Ziehl-abegg /Greenheck / Flaktwood
91	Motor (IE-3) for AHU Fan	ABB / Siemens / Crompton
92	Filters	Thermadyne / Freudenberg / Camfil Farr / AAF
93	VRV /VRF System	DAIKIN / CARRIER/ TOSHIBA/ MITSUBISHI / HITACHI / OGENERAL
94	Refrigerant Copper Piping	Maxflo / Rajko / Modern
95	GSS/GI Sheet	SAIL / Jindal / TATA
96	Grilles / dampers / diffusers / Louvers / VCD / Fire damper / MotorisedDamper	Ruskin/ Caryaire / Systemair / Cynore / Dynamic Equipments / Airflow / Pineair
97	Fire Damper Actuator	Belimo / Siemens / Honeywell
98	Nitrile Insulation	Armacell / Aflex / Supreme
99	Magnehelic gauge	Dwyer or equivalent
100	Duct Heater	Daspass / KEPL / Equivalent
101	Electrical Panels / Switch gears / Switch Socket / DB	L&T/ ABB/ Schneider/ Siemens/ Legrand/ Tricolite/ Adlec Mundka/ Advance / Equivalent
102	LED Light Fixture/flood light	Philips / Crompton / Havells / Orient / Bajaj / Syska
103	Current Transformer	AE/Pragati/Gilbert & Maxwell/Matrix/Rishabh/Kappa
104	Electronic Digital Meter	Enercon System Pvt. Ltd. / CG Schlumberger / L&T / Rishabh
105	Moulded Case Circuit Breaker (MCCB)	Schneider (NSX) / L&T (D Sine) / Siemens (3VL) / ABB (Tmax) / Legrand
106	Miniature Circuit Breakers (MCB).	Schneider / L&T / Siemens / ABB / Legrand/Havells
107	Residual Current Circuit Breaker (RCCB)	Schneider / L&T / Siemens / ABB / Legrand/ Havells
108	Power/Aux. Contactor	Schneider / L&T / Siemens / ABB / Legrand/ Havells
109	Change Over Switch	Schneider / L&T / Siemens / ABB / Legrand/ Havells
110	Meters including Digital Meters	L&T/ Socomec/ Schneider/ Secure/ Siemens/ ABB / Rishabh
111	Protection Relay	Areva/Siemens/L&T/Schneider
112	Indication lamp and push button	GE/L&T/Siemens/Schneider

113	Selector Switch	Siemens/ L&T/ Schneider/ABB
114	Single Phase Preventer	L&T/Minilec/Schneider/ABB
115	LT Cables / Wire	Havells/ Finolex/ KEI/ Polycab/ RRRKabel/Grandlay
116	Bimetallic Cable Lug	Dowell/Comet/Jainson
117	Cable Glands Double Compression.	Dowell/Comet/Jainson
118	DLP PVC Trunking	Legrand/ Havells and equivalent
119	Concertina coil	Tirupati Engg Co., Shiva Engg Co/Anping Enzar Metal Products Co. Ltd., equivalent
120	Dholpur Stone	dholpur

Schedule of Quantity

Name of Work: 02 NO. Badminton Court near type 5 & 4 Building at AIIMS Deoghar

S.No	DSR no	Description	Unit	Quantity	Rate	Amount
		Civil				
1.0	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed - All kinds of soil.				
1.1	2.6.1	All kinds of Soil	cum	25.00	177.50	4437.50
2.0	2.9	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
2.1	2.9.1	Ordinary Rock	cum	14.00	632.95	8861.30
3.0	2.3	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tone roller, or wooden or steel rammers, and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead up to 50 m and lift up to 1.5 m : All kinds of soil	cum	25.00	197.90	4947.50
4.0	2.8.1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep disposal of rubbish, lead up to 50 m and up to 1.5 m. All kinds of Soil	sqm	160.00	34.15	5464.00
5.0	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	80.00	8.95	716.00
6.0	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.				
6.1	2.34.1	Chlorpyriphos/ Lindance emulsifiable concentrate of 20%	liter	200.00	234.75	46950.00
7.0	2.35	Diluting and injecting chemical imulsion for POST-CONSTRUCTION anti-termite treatment (excluding the cost of chemical emulsion):				
7.1	2.35.2	Along the external wall below concrete or masonry apron using chemical emulsing @ 2.25 litres per linear meter including drilling and plugging holes etc.:				

7.1.1	2.35.2.1	With chlorpyriphos/ Lindance E.C 20% with 1% concentration	m	160.00	53.45	8552.00
8.0	4.1.3	Providing and laying C.C 1:2:4 (1Cement: 2 Coarse sand: 4 Graded stone aggregate 20mm nominal size) excluding the cost of centering and shuttering	cum	20.00	7878.50	157570.00
9.0	4.3	Centering and shuttering including strutting, propping etc., and removal of form for-				
	4.3.1	Foundation, footing, bases for columns	sqm	75.00	842.50	63187.50
10.0	5.1.2	Providing and laying in position specified grade of reinforced cement concrete 1:1.5:3 (1 Cement : 1.5 Coarse sand : 3 graded stone aggregate 20mm nominal size) excluding the cost of centering, shuttering finishing and reinforcement - All work up to Plinth level.	cum	25.00	9045.75	226143.75
11.0	5.22.6	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.- ThermoMechanically Treated bars of grade Fe-500D	kg	890.00	107.85	95986.50
12.0	Non-DSR	Acrylic synthetic 8 layer flooring equivalent : 1. PRIMER - 100% synthetic coat of Acrylic based emulsion to improve bond of acrylic court system to the concrete or asphalt surfaces. 2. RESURFACER - 1 coat of Acrylic Resurfacer 367-30 for filling and smoothing concrete surfaces in preparation for synthetic court of Acrylic also fills the surface chips, voids and conceals repairs while providing a smooth surface for colour coating. 3. CUSHION COAT - 2 Layers of Acrylic cushion for concrete surfaces in preparation for synthetic court of Acrylic 4. ULTRA CUSHION COAT - 2 Layers of Acrylic cushion for asphalt or concrete surfaces in preparation for synthetic court of Acrylic 5. PRECOAT - 2 layers of Acrylic based textured topcoat. Ideal for colour coating courts and other sport pavement surfaces. 6. OVERLINE - Line marking as per international standards.	sqm	165.00	914.76	150935.40
13.0	16.68	Providing and laying 60mm thick factory made polished 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 fine sand etc. all complete as per the direction of Engineer-in-charge	sqm	40.00	972.00	38880.00

14.0	10.16	Steel work using MS square tubes, Plates, pipes and rods, including cutting, hoisting fixing in position and painting with synthetic enamel paint two or more coats over a coat of steel primer , welded and bolted including special shaped washers etc complete.				
	10.16.3	Electric resistance or induction butt welded tubes	kg	120.00	194.40	23328.00
15.0	Non-DSR	Providing & Fixing nets (nylon) for badminton court with standard size and specifications as per the sample available in office and suitable for outdoor fields.	nos	2.00	5000.00	10000.00
		Total Amount in Rs.				8,45,959

TECHNICAL SPECIFICATION

1. **Size of angle section:**
50 x 50 x 5 mm
2. **Angle section details:**
Ref. page 8 and 9 of Steel Table of SP 6-1 (1964)
3. **Washer plate size:**
100*100*6 mm
4. **Bolts & Nuts Dia**
8 mm dia
5. **Primer:**
Double coat of Ready mixed red oxide zinc chromate of approved make.
6. **Paint:**
Double coat of Synthetic enamel paint of approved make.
7. **Flooring:**

Acrylic synthetic 8 layer flooring equivalent :

1. **PRIMER** - 100% synthetic coat of Acrylic based emulsion to improve bond of acrylic court system to the concrete or asphalt surfaces.
 2. **RESURFACER** - 1 coat of Acrylic Resurfacer 367-30 for filling and smoothing concrete surfaces in preparation for synthetic court of Acrylic also fills the surface chips, voids and conceals repairs while providing a smooth surface for colour coating.
 3. **CUSHION COAT**- 2 Layers of Acrylic cushion for concrete surfaces in preparation for synthetic court of Acrylic
 4. **ULTRA CUSUIION COAT**- 2 Layers of Acrylic cushion for asphalt or concrete surfaces in preparation for synthetic court of Acrylic
 5. **PRECOAT**- 2 layers of Acrylic based textured topcoat. Ideal for colour coating courts and other sport pavement surfaces.
 6. **OVERLINE**- Line marking as per international standards.
-

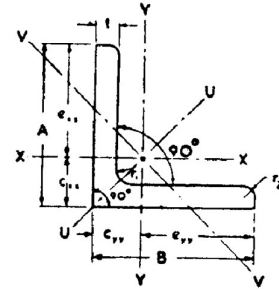
8. Paver Block

Laying 60mm thick factory-made polished 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 fine sand etc. all complete as per the direction of Engineer-in-charge.

Table 1 Sizes
(Clause 5)

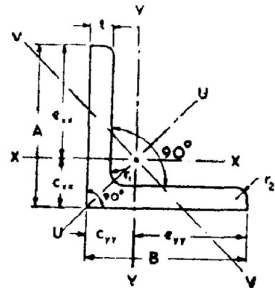
Sl No.	Size Designation	Diameter of Wire				Mass of Completed Barbed Wire		Distance Between Two Barbs mm	No. of Lays Between the Two Consecutive Barbs
		Line Wire		Point Wire		Max g/m	Min g/m		
		Nominal mm	Tolerance mm	Nominal mm	Tolerance mm				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
i)	1	2.50	±0.08	2.50	±0.08	155	136	75 ± 12	2 to 7
ii)	2	2.50	±0.08	2.50	±0.08	120	108	150 ± 12	2 to 7
iii)	3	2.50	±0.08	2.00	±0.08	125	108	75 ± 12	2 to 7
iv)	4	2.50	±0.08	2.00	±0.08	103	89	150 ± 12	2 to 7
v)	5	2.24	±0.08	2.00	±0.08	106	97	75 ± 12	2 to 7
vi)	6	2.24	±0.08	2.00	±0.08	85	78	150 ± 12	2 to 7

TABLE III ROLLED STEEL EQUAL ANGLES
 DIMENSIONS AND PROPERTIES



Designation	Size	Thickness t	Sectional Area a	Weight per Metre w	Centre of Gravity $C_x = C_y$	Distance of Extreme Fibre $e_x = e_y$
	$A \times B$ mm mm					
ISA 2020	20 × 20	3.0	1.12	0.9	0.59	1.41
		4.0	1.45	1.1	0.63	1.37
ISA 2525	25 × 25	3.0	1.41	1.1	0.71	1.79
		4.0	1.84	1.4	0.75	1.75
		5.0	2.25	1.8	0.79	1.71
ISA 3030	30 × 30	3.0	1.73	1.4	0.83	2.17
		4.0	2.26	1.8	0.87	2.13
		5.0	2.77	2.2	0.92	2.08
ISA 3535	35 × 35	3.0	2.03	1.6	0.95	2.55
		4.0	2.66	2.1	1.00	2.50
		5.0	3.27	2.6	1.04	2.46
		6.0	3.86	3.0	1.08	2.42
ISA 4040	40 × 40	3.0	2.34	1.8	1.05	2.92
		4.0	3.07	2.4	1.12	2.88
		5.0	3.78	3.0	1.16	2.84
		6.0	4.47	3.5	1.20	2.80
ISA 4545	45 × 45	3.0	2.64	2.1	1.20	3.30
		4.0	3.47	2.7	1.25	3.25
		5.0	4.28	3.4	1.29	3.21
		6.0	5.07	4.0	1.33	3.17
ISA 5050	50 × 50	3.0	2.95	2.3	1.32	3.68
		4.0	3.88	3.0	1.37	3.63
		5.0	4.79	3.8	1.41	3.59
		6.0	5.68	4.5	1.45	3.55
ISA 5555	55 × 55	5.0	5.27	4.1	1.53	3.97
		6.0	6.26	4.9	1.57	3.93
		8.0	8.18	6.4	1.65	3.85
		10.0	10.02	7.9	1.72	3.78
ISA 6060	60 × 60	5.0	5.75	4.5	1.65	4.35
		6.0	6.84	5.4	1.69	4.31
		8.0	8.96	7.0	1.77	4.23
		10.0	11.00	8.6	1.85	4.15
ISA 6565	65 × 65	5.0	6.25	4.9	1.77	4.73
		6.0	7.44	5.8	1.81	4.69
		8.0	9.76	7.7	1.89	4.61
		10.0	12.00	9.4	1.97	4.53

TABLE III ROLLED STEEL EQUAL ANGLES
DIMENSIONS AND PROPERTIES



Moments of Inertia			Radii of Gyration			Modulus of Section	Radius at Root	Radius at Toe	Product of Inertia	Designation
$I_{xx} = I_{yy}$	I_{uu}	I_{vv}	$r_{xx} = r_{yy}$	r_{uu}	r_{vv}	$Z_{xx} = Z_{yy}$	r_1	r_2	I_{xy}	
cm ⁴	cm ⁴	cm ⁴	cm	cm	cm	cm ³	mm	mm	cm ⁴	
0.4	0.6	0.2	0.58	0.73	0.37	0.3	4.0	2.5	0.2	ISA 2020
0.5	0.8	0.2	0.58	0.72	0.37	0.4		0.3		
0.8	1.2	0.3	0.73	0.93	0.47	0.4	4.5	3.0	0.4	ISA 2525
1.0	1.6	0.4	0.73	0.91	0.47	0.6				
1.2	1.8	0.5	0.72	0.91	0.47	0.7				
1.4	2.2	0.6	0.89	1.13	0.57	0.6	5.0	3.0	0.8	ISA 3030
1.8	2.8	0.7	0.89	1.12	0.57	0.8				
2.1	3.4	0.9	0.88	1.11	0.57	1.0				
2.3	3.6	0.9	1.05	1.33	0.67	0.9	5.0	3.0	1.3	ISA 3535
2.9	4.7	1.2	1.05	1.32	0.67	1.2				
3.5	5.6	1.5	1.04	1.31	0.67	1.4				
4.1	6.5	1.7	1.03	1.29	0.67	1.7			2.4	
3.4	5.5	1.4	1.21	1.54	0.77	1.2	5.5	3.0	2.0	ISA 4040
4.5	7.1	1.8	1.21	1.53	0.77	1.6				
5.4	8.6	2.2	1.20	1.51	0.77	1.9				
6.3	10.0	2.6	1.19	1.50	0.77	2.3			3.7	
5.0	8.0	2.0	1.38	1.74	0.87	1.5	5.5	3.0	2.9	ISA 4545
6.5	10.4	2.6	1.37	1.73	0.87	2.0				
7.9	12.6	3.2	1.36	1.72	0.87	2.5				
9.2	14.6	3.8	1.35	1.70	0.87	2.9			5.4	
6.9	11.1	2.8	1.53	1.94	0.97	1.9	6.0	3.0	4.1	ISA 5050
9.1	14.5	3.6	1.53	1.93	0.97	2.5				
11.0	17.6	4.5	1.52	1.92	0.97	3.1				
12.9	20.6	5.3	1.51	1.90	0.96	3.6			7.6	
14.7	23.5	5.9	1.67	2.11	1.06	3.7	6.5	4.0	8.6	ISA 5555
17.3	27.5	7.0	1.66	2.10	1.06	4.4				
22.0	34.9	9.1	1.64	2.07	1.06	5.7				
26.3	41.5	11.2	1.62	2.03	1.06	7.0			15.1	
19.2	30.6	7.7	1.82	2.31	1.16	4.4	6.5	4.5	11.3	ISA 6060
22.6	36.0	9.1	1.82	2.29	1.15	5.2				
29.0	46.0	11.9	1.80	2.27	1.15	6.8				
34.8	54.9	14.6	1.78	2.23	1.15	8.4			20.1	
24.7	39.4	9.9	1.99	2.51	1.26	5.2	6.5	4.5	14.5	ISA 6565
29.1	46.5	11.7	1.98	2.50	1.26	6.2				
37.4	59.5	15.3	1.96	2.47	1.25	8.1				
45.0	71.3	18.8	1.94	2.44	1.25	9.9			26.2	

(Continued)